

APPENDIX 2.7-B

**2008 Pump Tests: Results and Analysis
Replacement Tables Only**

Appendix B-2
Time and Water Level Data Values Used in Pumping Test
Analysis: Dewey Test, Drawdown Data

Table B.2-1: Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Drawdown Data

32-3C		3643.9		GW-49		3652		29-7		3659.3		32-4C		3644.0		32-5C		3641.0		32-9C		3626.3		
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	
0.000012	16.362759	3.627.5	0.000012	-0.008329	3.652.0	0.000012	0.045472	3.659.3	0.000012	-0.002208	3.644.0	0.000000	-0.048216	3.641.0	0.000012	-0.025243	3.626.3	0.000012	0.000000	3.641.0	0.000012	0.000000	0.027854	3.626.3
0.000023	19.161989	3.624.7	0.000023	-0.001406	3.652.0	0.000023	-0.000681	3.659.3	0.000023	0.000715	3.644.0	0.000023	0.000035	3.641.0	0.000023	0.000035	3.626.3	0.000023	0.000035	3.641.0	0.000023	0.000035	0.034757	3.626.3
0.000035	19.948912	3.624.0	0.000035	0.007825	3.652.0	0.000035	0.023919	3.659.3	0.000035	0.007023	3.644.0	0.000035	0.000723	3.641.0	0.000035	0.000723	3.626.3	0.000035	0.000723	3.641.0	0.000035	0.000723	-0.009089	3.626.3
0.000046	20.355066	3.623.5	0.000046	-0.001406	3.652.0	0.000046	-0.023758	3.659.3	0.000046	0.009331	3.644.0	0.000046	0.000046	3.641.0	0.000046	0.000046	3.626.3	0.000046	0.000046	3.641.0	0.000046	0.000046	0.011680	3.626.3
0.000058	21.017374	3.622.9	0.000058	0.035517	3.652.0	0.000058	0.131655	3.659.3	0.000058	0.007023	3.644.0	0.000058	0.000058	3.641.0	0.000058	0.000058	3.626.3	0.000058	0.000058	3.641.0	0.000058	0.000058	0.011680	3.626.3
0.000069	21.402758	3.622.5	0.000069	-0.012944	3.652.0	0.000069	-0.012220	3.659.3	0.000069	0.002408	3.644.0	0.000069	0.000069	3.641.0	0.000069	0.000069	3.626.3	0.000069	0.000069	3.641.0	0.000069	0.000069	0.009372	3.626.3
0.000081	21.651989	3.622.2	0.000081	-0.008329	3.652.0	0.000081	0.023919	3.659.3	0.000081	0.002408	3.644.0	0.000081	0.000081	3.641.0	0.000081	0.000081	3.626.3	0.000081	0.000081	3.641.0	0.000081	0.000081	0.013988	3.626.3
0.000093	22.035067	3.621.9	0.000093	-0.036021	3.652.0	0.000093	0.057011	3.659.3	0.000093	0.002408	3.644.0	0.000093	0.000093	3.641.0	0.000093	0.000093	3.626.3	0.000093	0.000093	3.641.0	0.000093	0.000093	0.013988	3.626.3
0.000104	22.071989	3.621.8	0.000104	0.007825	3.652.0	0.000104	0.016226	3.659.3	0.000104	0.016254	3.644.0	0.000104	0.016254	3.641.0	0.000104	0.016254	3.626.3	0.000104	0.000104	3.641.0	0.000104	0.000104	-0.002166	3.626.3
0.000116	22.016603	3.621.9	0.000116	0.014748	3.652.0	0.000116	-0.028374	3.659.3	0.000116	0.000100	3.644.0	0.000116	0.000100	3.641.0	0.000116	0.000100	3.626.3	0.000116	0.000116	3.641.0	0.000116	0.000116	-0.002166	3.626.3
0.000127	22.381220	3.621.5	0.000127	-0.006021	3.652.0	0.000127	-0.000681	3.659.3	0.000127	0.000127	3.644.0	0.000127	0.000127	3.641.0	0.000127	0.000127	3.626.3	0.000127	0.000127	3.641.0	0.000127	0.000127	0.013988	3.626.3
0.000139	22.337374	3.621.6	0.000139	-0.001406	3.652.0	0.000139	-0.005297	3.659.3	0.000139	0.000933	3.644.0	0.000139	0.000933	3.641.0	0.000139	0.000933	3.626.3	0.000139	0.000139	3.641.0	0.000139	0.000139	-0.006781	3.626.3
0.000150	22.618912	3.621.3	0.000150	-0.008329	3.652.0	0.000150	0.045472	3.659.3	0.000150	0.000933	3.644.0	0.000150	0.000933	3.641.0	0.000150	0.000933	3.626.3	0.000150	0.000150	3.641.0	0.000150	0.000150	-0.004474	3.626.3
0.000162	22.508142	3.621.4	0.000162	0.005517	3.652.0	0.000162	0.068242	3.659.3	0.000162	0.007023	3.644.0	0.000162	0.007023	3.641.0	0.000162	0.007023	3.626.3	0.000162	0.000162	3.641.0	0.000162	0.000162	-0.018320	3.626.3
0.000174	22.847374	3.621.1	0.000174	-0.019867	3.652.0	0.000174	-0.021451	3.659.3	0.000174	0.011639	3.644.0	0.000174	0.011639	3.641.0	0.000174	0.011639	3.626.3	0.000174	0.000174	3.641.0	0.000174	0.000174	0.018603	3.626.3
0.000185	22.914297	3.621.0	0.000185	-0.008329	3.652.0	0.000185	-0.026066	3.659.3	0.000185	0.004515	3.644.0	0.000185	0.004515	3.641.0	0.000185	0.004515	3.626.3	0.000185	0.000185	3.641.0	0.000185	0.000185	0.000142	3.626.3
0.000197	22.999681	3.620.9	0.000197	-0.017559	3.652.0	0.000197	0.024703	3.659.3	0.000197	0.000100	3.644.0	0.000197	0.000100	3.641.0	0.000197	0.000100	3.626.3	0.000197	0.000197	3.641.0	0.000197	0.000197	0.013988	3.626.3
0.000208	22.893528	3.620.8	0.000208	-0.029098	3.652.0	0.000208	0.039344	3.659.3	0.000208	0.013946	3.644.0	0.000208	0.013946	3.641.0	0.000208	0.013946	3.626.3	0.000208	0.000208	3.641.0	0.000208	0.000208	0.000142	3.626.3
0.000220	23.131220	3.620.8	0.000220	-0.003713	3.652.0	0.000220	0.020088	3.659.3	0.000220	0.013946	3.644.0	0.000220	0.013946	3.641.0	0.000220	0.013946	3.626.3	0.000220	0.000220	3.641.0	0.000220	0.000220	0.002449	3.626.3
0.000231	23.131220	3.620.8	0.000231	0.010133	3.652.0	0.000231	0.068242	3.659.3	0.000231	0.013946	3.644.0	0.000231	0.013946	3.641.0	0.000231	0.013946	3.626.3	0.000231	0.000231	3.641.0	0.000231	0.000231	-0.013704	3.626.3
0.000243	23.271988	3.620.6	0.000243	-0.012944	3.652.0	0.000243	-0.014528	3.659.3	0.000243	0.011639	3.644.0	0.000243	0.011639	3.641.0	0.000243	0.011639	3.626.3	0.000243	0.000243	3.641.0	0.000243	0.000243	0.011680	3.626.3
0.000255	23.121988	3.620.8	0.000255	0.017056	3.652.0	0.000255	0.031626	3.659.3	0.000255	0.004715	3.644.0	0.000255	0.004715	3.641.0	0.000255	0.004715	3.626.3	0.000255	0.000255	3.641.0	0.000255	0.000255	0.011397	3.626.3
0.000266	23.101219	3.620.8	0.000266	0.005517	3.652.0	0.000266	0.038549	3.659.3	0.000266	0.023177	3.644.0	0.000266	0.023177	3.641.0	0.000266	0.023177	3.626.3	0.000266	0.000266	3.641.0	0.000266	0.000266	0.011680	3.626.3
0.000278	23.954296	3.620.0	0.000278	-0.022175	3.652.0	0.000278	-0.068242	3.659.3	0.000278	0.009331	3.644.0	0.000278	0.009331	3.641.0	0.000278	0.009331	3.626.3	0.000278	0.000278	3.641.0	0.000278	0.000278	-0.002166	3.626.3
0.000289	24.737374	3.619.2	0.000289	-0.026790	3.652.0	0.000289	-0.032989	3.659.3	0.000289	0.007023	3.644.0	0.000289	0.007023	3.641.0	0.000289	0.007023	3.626.3	0.000289	0.000289	3.641.0	0.000289	0.000289	0.009372	3.626.3
0.000301	25.408913	3.618.5	0.000301	0.007825	3.652.0	0.000301	-0.009912	3.659.3	0.000301	0.009331	3.644.0	0.000301	0.009331	3.641.0	0.000301	0.009331	3.626.3	0.000301	0.000301	3.640.9	0.000301	0.000301	-0.009089	3.626.3
0.000312	26.036604	3.617.9	0.000312	-0.001406	3.652.0	0.000312	-0.000681	3.659.3	0.000312	0.002408	3.644.0	0.000312	0.002408	3.641.0	0.000312	0.002408	3.626.3	0.000312	0.000312	3.641.0	0.000312	0.000312	0.002449	3.626.3
0.000324	27.227575	3.616.7	0.000324	-0.022175	3.652.0	0.000324	0.020088	3.659.3	0.000324	0.013946	3.644.0	0.000324	0.013946	3.641.0	0.000324	0.013946	3.626.3	0.000324	0.000324	3.641.0	0.000324	0.000324	-0.013704	3.626.3
0.000336	27.725836	3.616.2	0.000336	-0.008329	3.652.0	0.000336	-0.021451	3.659.3	0.000336	0.004515	3.644.0	0.000336	0.004515	3.641.0	0.000336	0.004515	3.626.3	0.000336	0.000336	3.641.0	0.000336	0.000336	0.011680	3.626.3
0.000347	28.452758	3.615.4	0.000347	-0.029098	3.652.0	0.000347	0.010857	3.659.3	0.000347	0.007023	3.644.0	0.000347	0.007023	3.641.0	0.000347	0.007023	3.626.3	0.000347	0.000347	3.641.0	0.000347	0.000347	-0.043704	3.626.3
0.000359	29.391989	3.614.5	0.000359	0.017056	3.652.0	0.000359	0.068242	3.659.3	0.000359	0.002408	3.644.0	0.000359	0.002408	3.641.0	0.000359	0.002408	3.626.3	0.000359	0.000359	3.641.0	0.000359	0.000359	0.037065	3.626.3
0.000370	30.266603	3.613.6	0.000370	-0.017559	3.652.0	0.000370	-0.005297	3.659.3	0.000370	0.002208	3.644.0	0.000370	0.002208	3.641.0	0.000370	0.002208	3.626.3	0.000370	0.000370	3.641.0	0.000370	0.000370	-0.004474	3.626.3
0.000382	30.670450	3.613.2	0.000382	-0.012944	3.652.0	0.000382	0.013165	3.659.3	0.000382	0.013946	3.644.0	0.000382	0.013946	3.641.0	0.000382	0.013946	3.626.3	0.000382	0.000382	3.641.0	0.000382	0.000382	0.011680	3.626.3
0.000394	30.815834	3.613.0	0.000394	-0.038329	3.652.0	0.000394	-0.000681	3.659.3	0.000394	0.004715	3.644.0	0.000394	0.004715	3.641.0	0.000394	0.004715	3.626.3	0.000394	0.000394	3.641.0	0.000394	0.000394		

Table B.2-1: Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Drawdown Data

32-3C	32-4C	32-5C	32-6C	32-7C	32-8C	32-9C	32-10C	32-11C	32-12C	32-13C	32-14C	32-15C	32-16C	32-17C	32-18C	32-19C	32-20C	32-21C	32-22C	32-23C	32-24C	32-25C	32-26C	32-27C	32-28C	32-29C	32-30C	32-31C	32-32C	32-33C	32-34C	32-35C	32-36C	32-37C	32-38C	32-39C	32-40C	32-41C	32-42C	32-43C	32-44C	32-45C	32-46C	32-47C	32-48C	32-49C	32-50C	32-51C	32-52C	32-53C	32-54C	32-55C	32-56C	32-57C	32-58C	32-59C	32-60C	32-61C	32-62C	32-63C	32-64C	32-65C	32-66C	32-67C	32-68C	32-69C	32-70C	32-71C	32-72C	32-73C	32-74C	32-75C	32-76C	32-77C	32-78C	32-79C	32-80C	32-81C	32-82C	32-83C	32-84C	32-85C	32-86C	32-87C	32-88C	32-89C	32-90C	32-91C	32-92C	32-93C	32-94C	32-95C	32-96C	32-97C	32-98C	32-99C	32-100C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
0.001042	0.001111	0.001181	0.001250	0.001319	0.001389	0.001458	0.001527	0.001597	0.001666	0.001735	0.001804	0.001873	0.001942	0.002011	0.002080	0.002149	0.002218	0.002287	0.002356	0.002425	0.002494	0.002563	0.002632	0.002701	0.002770	0.002839	0.002908	0.002977	0.003046	0.003115	0.003184	0.003253	0.003322	0.003391	0.003460	0.003529	0.003598	0.003667	0.003736	0.003805	0.003874	0.003943	0.004012	0.004081	0.004150	0.004219	0.004288	0.004357	0.004426	0.004495	0.004564	0.004633	0.004702	0.004771	0.004840	0.004909	0.004978	0.005047	0.005116	0.005185	0.005254	0.005323	0.005392	0.005461	0.005530	0.005599	0.005668	0.005737	0.005806	0.005875	0.005944	0.006013	0.006082	0.006151	0.006220	0.006289	0.006358	0.006427	0.006496	0.006565	0.006634	0.006703	0.006772	0.006841	0.006910	0.006979	0.007048	0.007117	0.007186	0.007255	0.007324	0.007393	0.007462	0.007531	0.007600	0.007669	0.007738	0.007807	0.007876	0.007945	0.008014	0.008083	0.008152	0.008221	0.008290	0.008359	0.008428	0.008497	0.008566	0.008635	0.008704	0.008773	0.008842	0.008911	0.008980	0.009049	0.009118	0.009187	0.009256	0.009325	0.009394	0.009463	0.009532	0.009601	0.009670	0.009739	0.009808	0.009877	0.009946	0.010015	0.010084	0.010153	0.010222	0.010291	0.010360	0.010429	0.010498	0.010567	0.010636	0.010705	0.010774	0.010843	0.010912	0.010981	0.011050	0.011119	0.011188	0.011257	0.011326	0.011395	0.011464	0.011533	0.011602	0.011671	0.011740	0.011809	0.011878	0.011947	0.012016	0.012085	0.012154	0.012223	0.012292	0.012361	0.012430	0.012499	0.012568	0.012637	0.012706	0.012775	0.012844	0.012913	0.012982	0.013051	0.013120	0.013189	0.013258	0.013327	0.013396	0.013465	0.013534	0.013603	0.013672	0.013741	0.013810	0.013879	0.013948	0.014017	0.014086	0.014155	0.014224	0.014293	0.014362	0.014431	0.014500	0.014569	0.014638	0.014707	0.014776	0.014845	0.014914	0.014983	0.015052	0.015121	0.015190	0.015259	0.015328	0.015397	0.015466	0.015535	0.015604	0.015673	0.015742	0.015811	0.015880	0.015949	0.016018	0.016087	0.016156	0.016225	0.016294	0.016363	0.016432	0.016501	0.016570	0.016639	0.016708	0.016777	0.016846	0.016915	0.016984	0.017053	0.017122	0.017191	0.017260	0.017329	0.017398	0.017467	0.017536	0.017605	0.017674	0.017743	0.017812	0.017881	0.017950	0.018019	0.018088	0.018157	0.018226	0.018295	0.018364	0.018433	0.018502	0.018571	0.018640	0.018709	0.018778	0.018847	0.018916	0.018985	0.019054	0.019123	0.019192	0.019261	0.019330	0.019399	0.019468	0.019537	0.019606	0.019675	0.019744	0.019813	0.019882	0.019951	0.020020	0.020089	0.020158	0.020227	0.020296	0.020365	0.020434	0.020503	0.020572	0.020641	0.020710	0.020779	0.020848	0.020917	0.020986	0.021055	0.021124	0.021193	0.021262	0.021331	0.021400	0.021469	0.021538	0.021607	0.021676	0.021745	0.021814	0.021883	0.021952	0.022021	0.022090	0.022159	0.022228	0.022297	0.022366	0.022435	0.022504	0.022573	0.022642	0.022711	0.022780	0.022849	0.022918	0.022987	0.023056	0.023125	0.023194	0.023263	0.023332	0.023401	0.023470	0.023539	0.023608	0.023677	0.023746	0.023815	0.023884	0.023953	0.024022	0.024091	0.024160	0.024229	0.024298	0.024367	0.024436	0.024505	0.024574	0.024643	0.024712	0.024781	0.024850	0.024919	0.024988	0.025057	0.025126	0.025195	0.025264	0.025333	0.025402	0.025471	0.025540	0.025609	0.025678	0.025747	0.025816	0.025885	0.025954	0.026023	0.026092	0.026161	0.026230	0.026299	0.026368	0.026437	0.026506	0.026575	0.026644	0.026713	0.026782	0.026851	0.026920	0.026989	0.027058	0.027127	0.027196	0.027265	0.027334	0.027403	0.027472	0.027541	0.027610	0.027679	0.027748	0.027817	0.027886	0.027955	0.028024	0.028093	0.028162	0.028231	0.028300	0.028369	0.028438	0.028507	0.028576	0.028645	0.028714	0.028783	0.028852	0.028921	0.028990	0.029059	0.029128	0.029197	0.029266	0.029335	0.029404	0.029473	0.029542	0.029611	0.029680	0.029749	0.029818	0.029887	0.029956	0.030025	0.030094	0.030163	0.030232	0.030301	0.030370	0.030439	0.030508	0.030577	0.030646	0.030715	0.030784	0.030853	0.030922	0.030991	0.031060	0.031129	0.031198	0.031267	0.031336	0.031405	0.031474	0.031543	0.031612	0.031681	0.031750	0.031819	0.031888	0.031957	0.032026	0.032095	0.032164	0.032233	0.032302	0.032371	0.032440	0.032509	0.032578	0.032647	0.032716	0.032785	0.032854	0.032923	0.032992	0.033061	0.033130	0.033199	0.033268	0.033337	0.033406	0.033475	0.033544	0.033613	0.033682	0.033751	0.033820	0.033889	0.033958	0.034027	0.034096	0.034165	0.034234	0.034303	0.034372	0.034441	0.034510	0.034579	0.034648	0.034717	0.034786	0.034855	0.034924	0.034993	0.035062	0.035131	0.035200	0.035269	0.035338	0.035407	0.035476	0.035545	0.035614	0.035683	0.035752	0.035821	0.035890	0.035959	0.036028	0.036097	0.036166	0.036235	0.036304	0.036373	0.036442	0.036511	0.036580	0.036649	0.036718	0.036787	0.036856	0.036925	0.036994	0.037063	0.037132	0.037201	0.037270	0.037339	0.037408	0.037477	0.037546	0.037615	0.037684	0.037753	0.037822	0.037891	0.037960	0.038029	0.038098	0.038167	0.038236	0.038305	0.038374	0.038443	0.038512	0.038581	0.038650	0.038719	0.038788	0.038857	0.038926	0.038995	0.039064	0.039133	0.039202	0.039271	0.039340	0.039409	0.039478	0.039547	0.039616	0.039685	0.039754	0.039823	0.039892	0.039961	0.040030	0.040099	0.040168	0.040237	0.040306	0.040375	0.040444	0.040513	0.040582	0.040651	0.040720	0.040789	0.040858	0.040927	0.040996	0.041065	0.041134	0.041203	0.041272	0.041341	0.041410	0.041479	0.041548	0.041617	0.041686	0.041755	0.041824	0.041893	0.041962	0.042031	0.042100	0.042169	0.042238	0.042307	0.042376	0.042445	0.042514	0.042583	0.042652	0.042721	0.042790	0.042859	0.042928	0.042997	0.043066	0.043135	0.043204	0.043273	0.043342	0.043411	0.043480	0.043549	0.043618	0.043687	0.043756	0.043825	0.043894	0.043963	0.044032	0.044101	0.044170	0.044239	0.044308	0.044377	0.044446	0.044515	0.044584	0.044653	0.044722	0.044791	0.044860	0.044929	0.044998	0.045067	0.045136	0.045205	0.045274	0.045343	0.045412	0.045481	0.045550	0.045619	0.045688	0.045757	0.045826	0.045895	0.045964	0.046033	0.046102	0.046171	0.046240	0.046309	0.046378	0.046447	0.046516	0.046585	0.046654	0.046723	0.046792	0.046861	0.046930	0.046999	0.047068	0.047137	0.047206	0.047275	0.047344	0.047413	0.047482	0.047551	0.047620	0.047689	0.047758	0.047827	0.047896	0.047965	0.048034	0.048103	0.048172	0.048241	0.048310	0.048379	0.048448	0.048517	0.048586	0.048655	0.048724	0.048793	0.048862	0.048931	0.048999	0.049068	0.049137	0.049206	0.049275	0.049344	0.049413	0.049482	0.049551	0.049620	0.049689	0.049758	0.049827	0.049896	0.049965	0.050034	0.050103	0.050172	0.050241	0.050310	0.050379	0.050448	0.050517	0.050586	0.050655	0.050724	0.050793	0.050862	0.050931	0.050999	0.051068	0.051137	0.051206	0.051275	0.051344	0.051413	0.051482	0.051551	0.051620	0.051689	0.051758	0.051827	0.051896	0.051965	0.052034	0.052103	0.052172	0.052241	0.052310	0.052379	0.052448	0.052517	0.052586	0.052655	0.052724	0.052793	0.052862	0.052931	0.052999	0.053068	0.053137	0.053206	0.053275	0.053344	0.053413	0.053482	0.053551	0.053620	0.053689	0.053758	0.053827	0.053896	0.053965	0.054034	0.054103	0.054172	0.054241	0.054310	0.054379	0.054448	0.054517	0.054586	0.054655	0.054724	0.054793	0.054862	0.054931	0.054999	0.055068	0.055137	0.055206	0.055275	0.055344	0.055413	0.055482	0.055551	0.055620	0.055689	0.055758	0.055827	0.055896	0.055965	0.056034	0.056103	0.056172	0.056241	0.056310	0.056379	0.056448	0.056517	0.056586	0.056655	0.056724	0.056793	0.056862	0.056931	0.056999	0.057068	0.057137	0.057206	0.057275	0.057344	0.057413	0.057482	0.057551	0.057620	0.057689	0.057758	0.057827	0.057896	0.057965	0.058034	0.058103	0.058172	0.058241	0.058310	0.058379	0.058448	0.058517	0.058586	0.058655	0.058724	0.058793	0.058862	0.058931	0.058999	0.059068	0.059137	0.059206	0.059275	0.059344	0.059413	0.059482	0.059551	0.059620	0.059689	0.059758	0.059827	0.059

Table B.2-1: Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Drawdown Data

32-3C	3643.9	3652.9	3659.3	32-4C	3644.0	32-5C	3641.0	32-9C	3626.3
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Drawdown (ft)
0.023611	35.149881	3652.0	0.023611	-0.012220	3659.3	0.023611	3.037169	3638.0	0.023611
0.025000	35.355064	3652.0	0.025000	0.020088	3659.3	0.025000	3.113323	3637.9	0.025000
0.026389	35.320450	3651.9	0.026389	0.010857	3659.3	0.026389	3.194092	3637.9	0.026389
0.027778	35.645836	3651.9	0.027778	0.027011	3659.3	0.027778	3.256400	3637.7	0.027778
0.029514	35.567375	3651.9	0.029514	-0.026066	3659.3	0.029514	3.300246	3637.7	0.029514
0.031250	35.581142	3651.9	0.031250	0.036242	3659.3	0.031250	3.408707	3637.6	0.031250
0.032986	35.690450	3651.9	0.032986	0.036242	3659.3	0.032986	3.408707	3637.6	0.032986
0.034722	35.735836	3651.9	0.034722	-0.014528	3659.3	0.034722	3.444861	3637.5	0.034722
0.037037	35.950451	3651.9	0.037037	-0.016835	3659.3	0.037037	3.607169	3637.4	0.037037
0.039352	35.978142	3651.9	0.039352	0.024703	3659.3	0.039352	3.713323	3637.3	0.039352
0.041667	36.027559	3651.8	0.041667	0.016626	3659.3	0.041667	3.807938	3637.2	0.041667
0.043981	36.153526	3651.8	0.043981	0.006242	3659.3	0.043981	3.863323	3637.1	0.043981
0.046296	36.012756	3651.8	0.046296	0.016626	3659.3	0.046296	3.933323	3637.0	0.046296
0.048611	36.144295	3651.8	0.048611	0.010857	3659.3	0.048611	4.015630	3637.0	0.048611
0.052083	36.488144	3651.7	0.052083	-0.021451	3659.3	0.052083	4.061784	3636.9	0.052083
0.055556	36.432758	3651.7	0.055556	-0.016835	3659.3	0.055556	4.200246	3636.9	0.055556
0.059028	36.527374	3651.6	0.059028	0.033934	3659.3	0.059028	4.253323	3636.9	0.059028
0.062500	36.478912	3651.5	0.062500	-0.000681	3659.3	0.062500	4.363323	3636.6	0.062500
0.065972	36.508911	3651.5	0.065972	-0.006811	3659.3	0.065972	4.426400	3636.6	0.065972
0.069444	36.590452	3651.4	0.069444	0.015472	3659.3	0.069444	4.481784	3636.5	0.069444
0.072917	36.688911	3651.4	0.072917	0.059319	3659.2	0.072917	4.548707	3636.5	0.072917
0.076389	36.806602	3651.3	0.076389	0.057011	3659.2	0.076389	4.617457	3636.4	0.076389
0.079861	36.647373	3651.3	0.079861	0.033934	3659.2	0.079861	4.673323	3636.4	0.079861
0.083336	36.778912	3651.3	0.083336	0.070857	3659.2	0.083336	4.733323	3636.4	0.083336
0.090312	37.895836	3651.2	0.090312	0.084703	3659.2	0.090312	4.807169	3636.2	0.090312
0.097257	37.900452	3651.2	0.097257	0.093326	3659.2	0.097257	4.873323	3636.2	0.097257
0.104201	38.121990	3651.0	0.104201	-0.006681	3659.2	0.104201	4.933323	3636.2	0.104201
0.111147	38.013527	3650.9	0.111147	0.050988	3659.2	0.111147	5.000246	3636.2	0.111147
0.118091	38.108143	3650.8	0.118091	0.057011	3659.2	0.118091	5.060246	3636.2	0.118091
0.125035	38.172756	3650.7	0.125035	0.047780	3659.2	0.125035	5.118181	3636.2	0.125035
0.131979	38.331989	3650.6	0.131979	0.068549	3659.2	0.131979	5.178181	3636.2	0.131979
0.138924	38.493526	3650.4	0.138924	0.077780	3659.2	0.138924	5.238181	3636.2	0.138924
0.145868	38.484295	3650.4	0.145868	0.075472	3659.2	0.145868	5.298181	3636.2	0.145868
0.152812	38.350449	3650.5	0.152812	0.022395	3659.2	0.152812	5.358181	3636.2	0.152812
0.159757	38.350449	3650.5	0.159757	0.022395	3659.2	0.159757	5.418181	3636.2	0.159757
0.170174	38.484295	3650.4	0.170174	0.082338	3659.2	0.170174	5.478181	3636.2	0.170174
0.180590	38.627373	3650.3	0.180590	0.031626	3659.2	0.180590	5.538181	3636.2	0.180590
0.194479	38.631989	3650.3	0.194479	0.061626	3659.2	0.194479	5.598181	3636.2	0.194479
0.208368	38.811989	3650.3	0.208368	0.070857	3659.2	0.208368	5.658181	3636.2	0.208368
0.222516	38.763527	3650.5	0.222516	0.103165	3659.2	0.222516	5.718181	3636.2	0.222516
0.236146	38.920452	3650.6	0.236146	0.054703	3659.2	0.236146	5.778181	3636.2	0.236146
0.250035	38.899880	3650.6	0.250035	0.057011	3659.2	0.250035	5.838181	3636.2	0.250035
0.263924	38.908913	3650.4	0.263924	0.027011	3659.2	0.263924	5.898181	3636.2	0.263924
0.277812	39.130451	3650.4	0.277812	0.066242	3659.2	0.277812	5.958181	3636.2	0.277812
0.291704	39.375065	3650.5	0.291704	0.073165	3659.2	0.291704	6.018181	3636.2	0.291704
0.312535	39.285065	3650.6	0.312535	0.038242	3659.2	0.312535	6.078181	3636.2	0.312535
0.329896	39.349882	3650.6	0.329896	0.073165	3659.2	0.329896	6.138181	3636.2	0.329896
0.347257	39.538914	3650.4	0.347257	0.093934	3659.2	0.347257	6.198181	3636.2	0.347257
0.370405	39.347758	3650.6	0.370405	0.063934	3659.2	0.370405	6.258181	3636.2	0.370405
0.393553	39.598911	3650.3	0.393553	0.084703	3659.2	0.393553	6.318181	3636.2	0.393553
0.416701	39.898911	3650.4	0.416701	0.077780	3659.2	0.416701	6.378181	3636.2	0.416701
0.439965	39.430450	3650.5	0.439965	0.066242	3659.2	0.439965	6.438181	3636.2	0.439965
0.462998	39.878143	3650.4	0.462998	0.061626	3659.2	0.462998	6.498181	3636.2	0.462998

Appendix B-3
Time and Water Level Data Values Used in Pumping Test
Analysis: Dewey Test, Recovery Data

Table B.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Recovery Data

32-3C		3643.9		32-4C		3644.0		32-5		3641.0		32-9C		3626.3			
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.083866	42.133311	3.60118	3.083866	9.035518	3.643.0	3.083869	9.763947	3.634.2	3.083866	12.934861	3.628.1	3.083889	10.606296	3.615.7	3.083889	10.606296	3.615.7
3.083877	41.493441	3.602.4	3.083877	9.053979	3.642.9	3.083901	9.766253	3.634.2	3.083877	12.930245	3.628.1	3.083901	10.603988	3.615.7	3.083901	10.603988	3.615.7
3.083889	40.624881	3.603.3	3.083889	9.042440	3.643.0	3.083912	9.775485	3.634.2	3.083889	12.925631	3.628.1	3.083912	10.557834	3.615.7	3.083912	10.557834	3.615.7
3.083901	39.645441	3.604.3	3.083901	9.063210	3.642.9	3.083924	9.770869	3.634.2	3.083901	12.904861	3.628.1	3.083924	10.585526	3.615.7	3.083924	10.585526	3.615.7
3.083912	38.712201	3.605.2	3.083912	9.148595	3.642.9	3.083936	9.768561	3.634.2	3.083912	12.907168	3.628.1	3.083936	10.594757	3.615.7	3.083936	10.594757	3.615.7
3.083924	37.792821	3.606.1	3.083924	9.053979	3.642.9	3.083947	9.759331	3.634.2	3.083924	12.914092	3.628.1	3.083947	10.615526	3.615.7	3.083947	10.615526	3.615.7
3.083935	36.931191	3.607.0	3.083935	9.058595	3.642.9	3.083958	9.758561	3.634.2	3.083935	12.909476	3.628.1	3.083958	10.564757	3.615.7	3.083958	10.564757	3.615.7
3.083947	36.228951	3.607.7	3.083947	9.060902	3.642.9	3.083970	9.768561	3.634.2	3.083947	12.904400	3.628.1	3.083970	10.567065	3.615.7	3.083970	10.567065	3.615.7
3.083958	35.328051	3.608.6	3.083958	9.060902	3.642.9	3.083981	9.773177	3.634.2	3.083958	12.918707	3.628.1	3.083981	10.562449	3.615.7	3.083981	10.562449	3.615.7
3.083970	34.549581	3.609.4	3.083970	9.028594	3.643.0	3.083993	9.770869	3.634.2	3.083970	12.897938	3.628.1	3.083993	10.638603	3.615.7	3.083993	10.638603	3.615.7
3.083982	33.812691	3.610.1	3.083982	9.056287	3.642.9	3.084005	9.775485	3.634.2	3.083982	12.895631	3.628.1	3.084005	10.583219	3.615.7	3.084005	10.583219	3.615.7
3.083993	33.055011	3.610.8	3.083993	9.157825	3.642.8	3.084016	9.766253	3.634.2	3.083993	12.944092	3.628.1	3.084016	10.640911	3.615.7	3.084016	10.640911	3.615.7
3.084005	32.371251	3.611.5	3.084005	9.042440	3.643.0	3.084028	9.775485	3.634.2	3.084005	12.946400	3.628.1	3.084028	10.525526	3.615.7	3.084028	10.525526	3.615.7
3.084016	31.673631	3.612.2	3.084016	9.033210	3.643.0	3.084039	9.768561	3.634.2	3.084016	12.914092	3.628.1	3.084039	10.594757	3.615.7	3.084039	10.594757	3.615.7
3.084028	30.980631	3.612.9	3.084028	9.049364	3.643.0	3.084051	9.759331	3.634.2	3.084028	12.955630	3.628.1	3.084051	10.617834	3.615.7	3.084051	10.617834	3.615.7
3.084039	30.350001	3.613.5	3.084039	9.051671	3.642.9	3.084062	9.770869	3.634.2	3.084039	12.897938	3.628.1	3.084062	10.666296	3.615.7	3.084062	10.666296	3.615.7
3.084051	29.723991	3.614.2	3.084051	9.063210	3.642.9	3.084074	9.770869	3.634.2	3.084051	12.914092	3.628.1	3.084074	10.580911	3.615.7	3.084074	10.580911	3.615.7
3.084063	29.162661	3.614.7	3.084063	9.063210	3.642.9	3.084086	9.766253	3.634.2	3.084063	12.909476	3.628.1	3.084086	10.601680	3.615.7	3.084086	10.601680	3.615.7
3.084074	28.545891	3.615.4	3.084074	9.051671	3.642.9	3.084097	9.763947	3.634.2	3.084074	12.921015	3.628.1	3.084097	10.599373	3.615.7	3.084097	10.599373	3.615.7
3.084086	27.984561	3.615.9	3.084086	9.012441	3.643.0	3.084109	9.770869	3.634.2	3.084086	12.964861	3.628.1	3.084109	10.555527	3.615.7	3.084109	10.555527	3.615.7
3.084097	27.448641	3.616.5	3.084097	9.047056	3.643.0	3.084120	9.770869	3.634.2	3.084097	12.939477	3.628.1	3.084120	10.583219	3.615.7	3.084120	10.583219	3.615.7
3.084109	26.901171	3.617.0	3.084109	9.028594	3.643.0	3.084132	9.775485	3.634.2	3.084109	12.994477	3.628.1	3.084132	10.562449	3.615.7	3.084132	10.562449	3.615.7
3.084120	26.367561	3.617.5	3.084120	9.058287	3.642.9	3.084143	9.761639	3.634.2	3.084120	12.930245	3.628.1	3.084143	10.606296	3.615.7	3.084143	10.606296	3.615.7
3.084132	25.877841	3.618.0	3.084132	9.065517	3.642.9	3.084155	9.773177	3.634.2	3.084132	12.891015	3.628.1	3.084155	10.599373	3.615.7	3.084155	10.599373	3.615.7
3.084143	25.432011	3.618.5	3.084143	9.051671	3.642.9	3.084167	9.773177	3.634.2	3.084143	12.897938	3.628.1	3.084167	10.599373	3.615.7	3.084167	10.599373	3.615.7
3.084155	25.004661	3.618.9	3.084155	9.040133	3.643.0	3.084178	9.773177	3.634.2	3.084155	12.934861	3.628.1	3.084178	10.590141	3.615.7	3.084178	10.590141	3.615.7
3.084167	24.496461	3.619.4	3.084167	9.132441	3.642.9	3.084190	9.761639	3.634.2	3.084167	12.897938	3.628.1	3.084190	10.583219	3.615.7	3.084190	10.583219	3.615.7
3.084178	24.161511	3.619.7	3.084178	9.012441	3.643.0	3.084201	9.775485	3.634.2	3.084178	12.897938	3.628.1	3.084201	10.578603	3.615.7	3.084201	10.578603	3.615.7
3.084190	23.711061	3.620.2	3.084190	9.051671	3.642.9	3.084213	9.768561	3.634.2	3.084190	12.951015	3.628.1	3.084213	10.585526	3.615.7	3.084213	10.585526	3.615.7
3.084201	23.359941	3.620.5	3.084201	9.035518	3.643.0	3.084224	9.757023	3.634.2	3.084201	12.916400	3.628.1	3.084224	10.585526	3.615.7	3.084224	10.585526	3.615.7
3.084213	22.955691	3.620.9	3.084213	9.063210	3.642.9	3.084236	9.761639	3.634.2	3.084213	12.925631	3.628.1	3.084236	10.606296	3.615.7	3.084236	10.606296	3.615.7
3.084224	22.567611	3.621.3	3.084224	9.077056	3.642.9	3.084248	9.768561	3.634.2	3.084224	12.930245	3.628.1	3.084248	10.583219	3.615.7	3.084248	10.583219	3.615.7
3.084236	22.262691	3.621.6	3.084236	9.042440	3.643.0	3.084259	9.754716	3.634.2	3.084236	12.918707	3.628.1	3.084259	10.583219	3.615.7	3.084259	10.583219	3.615.7
3.084248	21.946221	3.622.0	3.084248	9.047056	3.643.0	3.084282	9.766253	3.634.2	3.084248	12.893323	3.628.1	3.084282	10.597065	3.615.7	3.084282	10.597065	3.615.7
3.084259	21.320211	3.622.6	3.084259	9.047056	3.643.0	3.084317	9.773177	3.634.2	3.084259	12.893323	3.628.1	3.084317	10.592449	3.615.7	3.084317	10.592449	3.615.7
3.084305	20.518641	3.623.4	3.084305	9.049364	3.643.0	3.084329	9.766253	3.634.2	3.084305	12.937169	3.628.1	3.084329	10.601680	3.615.7	3.084329	10.601680	3.615.7
3.084317	20.299191	3.623.6	3.084317	9.067825	3.642.9	3.084352	9.763947	3.634.2	3.084317	12.900246	3.628.1	3.084352	10.603988	3.615.7	3.084352	10.603988	3.615.7
3.084340	19.844121	3.624.1	3.084329	9.065517	3.642.9	3.084363	9.759331	3.634.2	3.084329	12.886399	3.628.1	3.084363	10.622449	3.615.7	3.084363	10.622449	3.615.7
3.084352	19.626981	3.624.3	3.084352	9.044748	3.643.0	3.084387	9.766253	3.634.2	3.084352	12.895631	3.628.1	3.084387	10.594757	3.615.7	3.084387	10.594757	3.615.7
3.084375	19.225041	3.624.7	3.084363	9.035518	3.643.0	3.084398	9.775485	3.634.2	3.084363	12.909476	3.628.1	3.084398	10.564757	3.615.7	3.084398	10.564757	3.615.7
3.084386	19.079511	3.624.8	3.084387	9.023979	3.643.0	3.084421	9.770869	3.634.2	3.084387	12.930245	3.628.1	3.084421	10.578603	3.615.7	3.084421	10.578603	3.615.7
3.084410	18.739941	3.625.2	3.084398	9.047056	3.643.0	3.084456	9.766253	3.634.2	3.084398	12.893323	3.628.1	3.084456	10.606296	3.615.7	3.084456	10.606296	3.615.7
3.084444	18.402661	3.625.5	3.084421	9.141671	3.642.9	3.084491	9.770869	3.634.2	3.084421	12.925631	3.628.1	3.084491	10.583219	3.615.7	3.084491	10.583219	3.615.7
3.084479	18.125481	3.625.8	3.084456	9.040133	3.643.0	3.084526	9.766253	3.634.2	3.084456	12.930245	3.628.1	3.084526	10.578603	3.615.7	3.084526	10.578603	3.615.7
3.084514	17.938371	3.626.0	3.084491	9.063210	3.642.9	3.084560	9.780100	3.634.2	3.084491	12.914092	3.628.1	3.084560	10.599373	3.615.7	3.084560	10.599373	3.615.7
3.084549	17.758191	3.626.1	3.084526	9.063210	3.642.9	3.084595	9.757023	3.634.2	3.084526	12.879477	3.628.1	3.084595	10.585526	3.615.7	3.084595	10.585526	3.615.7
3.084583	17.649621	3.626.3	3.084560	9.125518	3.642.9	3.084630	9.763947	3.634.2	3.084560	12.932553	3.628.1	3.084630	10.567065	3.615.7	3.084630	10.567065	3.615.7
3.084618	17.520261	3.626.4	3.084595	9.058595	3.642.9	3.084664	9.761639	3.634.2	3.084595	12.932553	3.628.1	3.084664	10.597065	3.615.7	3.084664	10.597065	3.615.7
3.084653	17.388591	3.626.5	3.084630	9.033210	3.643.0	3.084699	9.766253	3.634.2	3.084630	12.925631	3.628.1	3.084699	10.601680	3.615.7	3.084699	10.601680	3.615.7

Table B.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Recovery Data

32-3C		3643.9		32-4C		3644.0		32-5		3641.0		32-9C		3626.3	
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)
3.084688	17.256921	3.626.6	3.084664	9.056287	3.642.9	3.084769	9.766253	3.634.2	3.084664	12.867938	3.628.1	3.084769	10.587834	3.615.7	3.084769
3.084757	17.035161	3.626.9	3.084699	9.153210	3.642.8	3.084838	9.770869	3.634.2	3.084699	12.909476	3.628.1	3.084838	10.592449	3.615.7	3.084838
3.084826	16.811091	3.627.1	3.084769	9.077056	3.642.9	3.084907	9.750100	3.634.2	3.084769	12.934861	3.628.1	3.084907	10.598373	3.615.7	3.084907
3.084896	16.531581	3.627.4	3.084838	9.033210	3.643.0	3.084977	9.754716	3.634.2	3.084838	12.902554	3.628.1	3.084977	10.624757	3.615.7	3.084977
3.084965	16.325991	3.627.6	3.084907	9.021671	3.643.0	3.085046	9.768561	3.634.2	3.084907	12.851785	3.628.1	3.085046	10.590141	3.615.7	3.085046
3.085035	16.078821	3.627.8	3.084977	9.042440	3.643.0	3.085116	9.770869	3.634.2	3.084977	12.851785	3.628.1	3.085116	10.583219	3.615.7	3.085116
3.085104	15.801161	3.628.0	3.085046	9.077056	3.642.9	3.085185	9.776856	3.634.2	3.085046	12.886399	3.628.1	3.085185	10.594757	3.615.7	3.085185
3.085173	15.503931	3.628.1	3.085116	9.053979	3.642.9	3.085255	9.770869	3.634.2	3.085116	12.844861	3.628.1	3.085255	10.594757	3.615.7	3.085255
3.085243	15.219801	3.628.4	3.085185	9.074748	3.642.9	3.085359	9.757023	3.634.2	3.085185	12.835630	3.628.2	3.085359	10.610911	3.615.7	3.085359
3.085312	15.034886	3.628.6	3.085255	9.056287	3.642.9	3.085463	9.752408	3.634.2	3.085255	12.807938	3.628.2	3.085463	10.578603	3.615.7	3.085463
3.085381	15.247221	3.628.7	3.085359	9.023979	3.643.0	3.085567	9.770869	3.634.2	3.085359	12.796400	3.628.2	3.085567	10.606296	3.615.7	3.085567
3.085452	15.161751	3.628.7	3.085463	9.033210	3.643.0	3.085671	9.752408	3.634.2	3.085463	12.773323	3.628.2	3.085671	10.617834	3.615.7	3.085671
3.085526	15.032391	3.628.9	3.085567	9.053979	3.642.9	3.085810	9.752408	3.634.2	3.085567	12.731784	3.628.3	3.085810	10.583219	3.615.7	3.085810
3.085598	14.916891	3.629.0	3.085671	9.056287	3.642.9	3.085961	9.747792	3.634.3	3.085567	12.674092	3.628.3	3.085961	10.608603	3.615.7	3.085961
3.085660	14.775981	3.629.1	3.085810	9.040133	3.643.0	3.086088	9.747792	3.634.3	3.085810	12.641785	3.628.4	3.086088	10.639987	3.615.7	3.086088
3.085739	14.782911	3.629.1	3.085961	9.040133	3.643.0	3.086227	9.740870	3.634.3	3.085961	12.584092	3.628.4	3.086227	10.594757	3.615.7	3.086227
3.086076	14.810631	3.629.1	3.086088	9.047056	3.643.0	3.086366	9.736254	3.634.3	3.086088	12.537938	3.628.5	3.086366	10.615526	3.615.7	3.086366
3.086215	14.764431	3.629.1	3.086227	9.021671	3.643.0	3.086505	9.731639	3.634.3	3.086227	12.524092	3.628.5	3.086505	10.627065	3.615.7	3.086505
3.086354	14.688201	3.629.2	3.086366	9.037826	3.643.0	3.086643	9.729331	3.634.3	3.086366	12.475631	3.628.5	3.086643	10.647834	3.615.7	3.086643
3.086493	14.623521	3.629.3	3.086505	9.104749	3.642.9	3.086817	9.715485	3.634.3	3.086505	12.429477	3.628.6	3.086817	10.592449	3.615.7	3.086817
3.086632	14.563461	3.629.3	3.086643	9.042440	3.643.0	3.086991	9.703946	3.634.3	3.086817	12.392553	3.628.6	3.086991	10.599373	3.615.7	3.086991
3.086806	14.586561	3.629.3	3.086817	9.049364	3.643.0	3.087164	9.703946	3.634.3	3.086991	12.314092	3.628.7	3.087164	10.643219	3.615.7	3.087164
3.086979	14.496471	3.629.7	3.086991	9.146287	3.643.0	3.087338	9.687793	3.634.3	3.087164	12.321015	3.628.7	3.087338	10.654757	3.615.7	3.087338
3.087153	14.461821	3.629.7	3.087164	9.058595	3.642.9	3.087570	9.690100	3.634.3	3.087338	12.212553	3.628.8	3.087570	10.622449	3.615.7	3.087570
3.087327	14.415621	3.629.5	3.087338	9.017056	3.643.0	3.087801	9.667023	3.634.3	3.087570	12.175631	3.628.8	3.087801	10.645526	3.615.7	3.087801
3.087558	14.350941	3.629.5	3.087570	9.049364	3.643.0	3.088036	9.662408	3.634.3	3.087801	12.117938	3.628.9	3.088036	10.622449	3.615.7	3.088036
3.087789	14.281641	3.629.6	3.087801	9.060902	3.642.9	3.088264	9.662408	3.634.3	3.088036	12.051015	3.628.9	3.088264	10.615526	3.615.7	3.088264
3.088021	14.244681	3.629.7	3.088036	9.030902	3.643.0	3.088495	9.639331	3.634.4	3.088264	12.014091	3.629.0	3.088495	10.622449	3.615.7	3.088495
3.088252	14.184621	3.629.7	3.088264	9.113979	3.642.9	3.088727	9.630100	3.634.4	3.088495	11.949476	3.629.1	3.088727	10.622449	3.615.7	3.088727
3.088484	14.205411	3.629.7	3.088495	9.044748	3.643.0	3.089074	9.600101	3.634.4	3.088727	11.887169	3.629.1	3.089074	10.594757	3.615.7	3.089074
3.088715	14.032161	3.629.9	3.088727	9.035518	3.643.0	3.089421	9.600101	3.634.4	3.089074	11.864092	3.629.1	3.089421	10.598373	3.615.7	3.089421
3.088941	14.025231	3.629.9	3.089074	9.060902	3.642.9	3.089768	9.570100	3.634.4	3.089421	11.815630	3.629.2	3.089768	10.578296	3.615.7	3.089768
3.089170	13.847361	3.630.1	3.089421	9.051671	3.642.9	3.090116	9.558561	3.634.4	3.089768	11.762553	3.629.2	3.090116	10.580911	3.615.7	3.090116
3.089401	12.685431	3.631.2	3.089768	9.042440	3.643.0	3.090463	9.535484	3.634.5	3.090116	11.658708	3.629.3	3.090463	10.615526	3.615.7	3.090463
3.090104	12.315831	3.631.6	3.090116	9.047056	3.643.0	3.090810	9.512407	3.634.5	3.090463	11.617168	3.629.4	3.090810	10.594757	3.615.7	3.090810
3.090451	12.166351	3.631.7	3.090463	9.100133	3.643.0	3.091157	9.500870	3.634.5	3.090810	11.511015	3.629.5	3.091157	10.587834	3.615.7	3.091157
3.090799	12.066351	3.631.8	3.090810	9.100133	3.642.9	3.091505	9.473177	3.634.5	3.091157	11.492554	3.629.5	3.091505	10.585526	3.615.7	3.091505
3.091146	11.960091	3.631.9	3.091157	9.060902	3.642.9	3.091852	9.459331	3.634.5	3.091505	11.439477	3.629.6	3.091852	10.567065	3.615.7	3.091852
3.091493	12.001671	3.631.9	3.091505	9.063210	3.642.9	3.092199	9.440869	3.634.6	3.091852	11.342553	3.629.7	3.092199	10.562449	3.615.7	3.092199
3.091840	11.782221	3.632.1	3.091852	9.058595	3.642.9	3.092393	9.413177	3.634.6	3.092199	11.296400	3.629.7	3.092393	10.530142	3.615.8	3.092393
3.092187	11.675961	3.632.2	3.092199	9.060902	3.642.9	3.093588	9.364716	3.634.6	3.092393	11.261785	3.629.7	3.093588	10.520911	3.615.8	3.093588
3.092882	11.574321	3.632.3	3.092893	9.042440	3.643.0	3.094282	9.337023	3.634.7	3.093588	11.178707	3.629.8	3.094282	10.490911	3.615.8	3.094282
3.093576	11.470371	3.632.4	3.093588	9.067825	3.642.9	3.094977	9.295485	3.634.7	3.094282	11.049477	3.630.0	3.094977	10.453988	3.615.8	3.094977
3.094271	11.331771	3.632.6	3.094282	9.072440	3.642.9	3.095683	9.256254	3.634.7	3.094977	10.952554	3.630.0	3.095683	10.488604	3.615.8	3.095683
3.094965	11.375661	3.632.5	3.094977	9.056287	3.642.9	3.096366	9.233177	3.634.8	3.095683	10.869476	3.630.1	3.096366	10.414757	3.615.9	3.096366
3.095671	11.204721	3.632.7	3.095683	9.023979	3.643.0	3.097060	9.189331	3.634.8	3.096366	10.823322	3.630.2	3.097060	10.382449	3.615.9	3.097060
3.096354	11.160831	3.632.7	3.096366	9.056287	3.642.9	3.097755	9.161638	3.634.8	3.097060	10.703322	3.630.3	3.097755	10.363988	3.615.9	3.097755
3.097049	11.103081	3.632.8	3.097060	9.030902	3.643.0	3.098796	9.108562	3.634.9	3.097755	10.613322	3.630.4	3.098796	10.373219	3.615.9	3.098796
3.097743	11.00381	3.632.9	3.097755	9.049364	3.643.0	3.099838	9.073946	3.634.9	3.098796	10.592553	3.630.4	3.099838	10.292449	3.616.0	3.099838

Table B.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Recovery Data

32-3C		3643.9		GW-49		3652		32-4C		3644.0		32-5		3641.0		32-9C		3626.3		
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.098826	10.885941	3.633.0	3.098796	9.148595	3.642.9	3.100880	9.013947	3.635.0	3.098796	10.463323	3.630.5	3.100880	10.287834	3.616.0						
3.100888	10.761201	3.633.1	3.099838	9.118594	3.642.9	3.101921	8.970100	3.635.0	3.099838	10.435631	3.630.6	3.101921	10.225526	3.616.1						
3.101910	10.719621	3.633.2	3.100880	9.070133	3.642.9	3.103310	8.910100	3.635.1	3.100880	10.322554	3.630.7	3.103310	10.264757	3.616.0						
3.103289	10.511721	3.633.4	3.101921	9.071056	3.643.0	3.104699	8.857023	3.635.1	3.101921	10.255630	3.630.7	3.104699	10.188603	3.616.1						
3.104667	10.403310	3.633.5	3.103310	9.123210	3.642.9	3.106088	8.808561	3.635.2	3.103310	10.119476	3.630.9	3.106088	10.147065	3.616.2						
3.106076	10.289961	3.633.6	3.104699	9.047056	3.643.0	3.107477	8.762407	3.635.2	3.104699	10.043323	3.631.0	3.107477	10.093987	3.616.2						
3.107465	10.206801	3.633.7	3.106088	9.026287	3.643.0	3.108866	8.713946	3.635.3	3.106088	9.957938	3.631.0	3.108866	10.070910	3.616.2						
3.108854	10.116711	3.633.8	3.107477	8.989594	3.643.0	3.110255	8.658562	3.635.3	3.107477	9.946400	3.631.1	3.110255	10.063988	3.616.2						
3.110243	9.950391	3.633.9	3.108866	9.095517	3.642.9	3.111643	8.628562	3.635.4	3.108866	9.780246	3.631.2	3.111643	10.031680	3.616.3						
3.111632	9.878781	3.634.0	3.110255	8.989364	3.643.0	3.113380	8.563946	3.635.4	3.110255	9.717938	3.631.3	3.113380	10.001680	3.616.3						
3.113368	9.719391	3.634.2	3.111643	8.970902	3.643.0	3.115116	8.520100	3.635.5	3.111643	9.648707	3.631.4	3.115116	9.946296	3.616.4						
3.115104	9.532281	3.634.4	3.113380	9.074748	3.642.9	3.116852	8.462408	3.635.5	3.113380	9.561015	3.631.4	3.116852	9.893219	3.616.4						
3.116840	9.310521	3.634.6	3.115116	9.012441	3.643.0	3.118588	8.402408	3.635.6	3.115116	9.473323	3.631.5	3.118588	9.851680	3.616.4						
3.118576	9.218121	3.634.7	3.116852	8.963979	3.643.0	3.120303	8.344715	3.635.7	3.116852	9.447938	3.631.6	3.120303	9.807834	3.616.5						
3.120891	9.091071	3.634.8	3.118588	9.047056	3.643.0	3.122017	8.287024	3.635.7	3.118588	9.339477	3.631.7	3.122017	9.720141	3.616.6						
3.123206	8.916481	3.634.8	3.120903	9.014749	3.643.0	3.125532	8.243177	3.635.8	3.120903	9.277169	3.631.7	3.125532	9.676295	3.616.6						
3.125521	8.975571	3.634.9	3.123217	8.959364	3.643.0	3.127847	8.173946	3.635.8	3.123217	9.147938	3.631.9	3.127847	9.676295	3.616.6						
3.127836	8.890101	3.635.0	3.125532	8.86287	3.643.2	3.130162	8.123177	3.635.9	3.125532	9.067169	3.631.9	3.130162	9.680911	3.616.6						
3.130150	8.834661	3.635.1	3.127847	8.825518	3.643.2	3.132477	8.077024	3.635.9	3.127847	9.011785	3.632.0	3.132477	9.648603	3.617.0						
3.132465	8.751501	3.635.1	3.130162	8.807055	3.643.2	3.135949	8.007792	3.636.0	3.130162	8.955631	3.632.1	3.135949	9.521680	3.616.8						
3.135937	8.700681	3.635.2	3.132477	8.848595	3.643.2	3.139421	7.938561	3.636.1	3.132477	8.887169	3.632.1	3.139421	9.477834	3.616.8						
3.139410	8.594421	3.635.3	3.135949	8.721671	3.643.3	3.142893	7.878561	3.636.1	3.135949	8.790246	3.632.2	3.142893	9.431680	3.616.9						
3.142882	8.522811	3.635.4	3.139421	8.788594	3.643.3	3.146366	7.825485	3.636.2	3.139421	8.695630	3.632.3	3.146366	9.380911	3.616.9						
3.146354	8.435031	3.635.5	3.142893	8.640903	3.643.4	3.149838	7.765485	3.636.2	3.142893	8.603323	3.632.4	3.149838	9.290911	3.617.0						
3.149826	8.405001	3.635.5	3.146366	8.564748	3.643.4	3.153310	7.707792	3.636.3	3.146366	8.541015	3.632.5	3.153310	9.255527	3.617.0						
3.153299	8.287191	3.635.6	3.149838	8.505092	3.643.4	3.156782	7.661639	3.636.3	3.149838	8.448708	3.632.6	3.156782	9.203218	3.617.1						
3.156771	8.217891	3.635.7	3.153310	8.493210	3.643.5	3.160301	7.615485	3.636.4	3.153310	8.377169	3.632.6	3.160301	9.131680	3.617.2						
3.160243	8.190171	3.635.7	3.156782	8.467825	3.643.5	3.163773	7.569331	3.636.4	3.156782	8.351784	3.632.6	3.163773	9.136295	3.617.2						
3.163715	8.109321	3.635.8	3.160301	8.456286	3.643.5	3.167361	7.523177	3.636.5	3.160255	8.268707	3.632.7	3.167361	9.071680	3.617.2						
3.167268	8.042331	3.635.9	3.163773	8.370902	3.643.6	3.174421	7.435485	3.636.6	3.163773	8.229477	3.632.8	3.174421	8.947064	3.617.4						
3.174329	7.991511	3.635.9	3.167361	8.366286	3.643.6	3.181250	7.345485	3.636.7	3.167361	8.079476	3.632.9	3.181250	8.877834	3.617.4						
3.181157	7.859841	3.636.0	3.174421	8.211671	3.643.8	3.188194	7.283177	3.636.7	3.174375	8.051785	3.632.9	3.188183	8.697834	3.617.6						
3.188102	7.746651	3.636.2	3.181250	8.133210	3.643.9	3.195139	7.202408	3.636.8	3.181204	7.917938	3.633.1	3.195127	8.686296	3.617.6						
3.195046	7.614981	3.636.3	3.188194	8.057055	3.643.9	3.202083	7.091639	3.636.9	3.188148	7.804861	3.633.2	3.202072	8.637834	3.617.7						
3.201991	7.512671	3.636.3	3.195139	7.948595	3.644.1	3.209028	7.057023	3.636.9	3.195092	7.744861	3.633.3	3.209016	8.547834	3.617.8						
3.208935	7.404771	3.636.4	3.202083	7.874748	3.644.1	3.215972	6.999331	3.637.0	3.202037	7.645630	3.633.4	3.215961	8.473988	3.617.8						
3.215880	7.404771	3.636.5	3.209028	7.752440	3.644.2	3.222917	6.932408	3.637.1	3.209981	7.583323	3.633.4	3.222905	8.377065	3.617.9						
3.222824	7.360881	3.636.5	3.215972	7.724748	3.644.3	3.233333	6.870100	3.637.2	3.215926	7.502553	3.633.5	3.233322	8.268603	3.618.0						
3.233241	7.215351	3.636.7	3.222917	7.625517	3.644.4	3.243750	6.773177	3.637.2	3.222870	7.449477	3.633.6	3.243738	8.171680	3.618.1						
3.243657	7.150671	3.636.7	3.233333	7.526287	3.644.5	3.254167	6.715485	3.637.3	3.233287	7.225630	3.633.8	3.254155	8.056295	3.618.2						
3.254074	7.060581	3.636.8	3.243750	7.408595	3.644.6	3.264583	6.641639	3.637.4	3.243704	7.198707	3.633.8	3.264572	7.980142	3.618.3						
3.264491	6.986661	3.636.9	3.254167	7.297825	3.644.7	3.274872	6.540100	3.637.5	3.254120	7.114861	3.633.9	3.274861	7.747065	3.618.5						
3.278380	6.873471	3.637.0	3.264583	7.189363	3.644.8	3.284742	6.457023	3.637.5	3.264537	6.939476	3.634.1	3.284738	7.645526	3.618.6						
3.292268	6.755661	3.637.1	3.274872	7.041671	3.644.8	3.296250	6.392408	3.637.6	3.278426	6.918707	3.634.1	3.296250	7.474065	3.618.7						
3.306157	6.684051	3.637.2	3.284742	6.960902	3.645.0	3.306250	6.320139	3.637.7	3.292315	6.798707	3.634.2	3.306238	7.309372	3.618.8						
3.320046	6.575481	3.637.3	3.306250	6.866287	3.645.1	3.334028	6.203177	3.637.8	3.306204	6.701784	3.634.3	3.334016	7.1451680	3.618.8						
3.333935	6.462291	3.637.4	3.320139	6.737056	3.645.3	3.347917	6.122408	3.637.8	3.320092	6.600246	3.634.4	3.347905	7.0264757	3.619.0						
3.347824	6.448431	3.637.5	3.334028	6.633210	3.645.4	3.361806	6.02408	3.637.9	3.333981	6.503323	3.634.5	3.361794	7.234757	3.619.1						
3.361713	6.295971	3.637.6	3.347917	6.524748	3.645.5	3.379167	6.025485	3.638.0	3.347870	6.369476	3.634.6	3.379155	7.123988	3.619.2						

Table B.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Dewey Test, Recovery Data

32-3C		3643.9		32-4C		3644.0		32-5		3641.0		32-9C		3626.3			
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.379074	6.265941	3.637.6	3.361806	6.471671	3.645.5	3.396628	5.949331	3.638.1	3.361759	6.327938	3.634.7	3.396616	7.024757	3.619.3	3.396616	7.024757	3.619.3
3.396435	6.166611	3.637.7	3.379167	6.328594	3.645.7	3.413889	5.899331	3.638.1	3.379120	6.270246	3.634.7	3.413877	6.925526	3.619.4	3.413877	6.925526	3.619.4
3.413796	6.023391	3.637.9	3.396528	6.284748	3.645.8	3.431250	5.817792	3.638.2	3.396481	6.159747	3.634.8	3.431238	6.793988	3.619.5	3.431238	6.793988	3.619.5
3.431157	6.060351	3.637.8	3.413889	6.167056	3.645.8	3.454398	5.750869	3.638.2	3.413842	6.083323	3.634.8	3.454387	6.690142	3.619.6	3.454387	6.690142	3.619.6
3.454306	5.935611	3.638.0	3.431250	6.081671	3.645.9	3.477546	5.667792	3.638.3	3.431204	6.027938	3.635.0	3.477535	6.593212	3.619.7	3.477535	6.593212	3.619.7
3.477454	5.778531	3.638.1	3.454398	5.968287	3.646.0	3.500694	5.593946	3.638.4	3.454352	5.850246	3.635.1	3.500683	6.477834	3.619.8	3.500683	6.477834	3.619.8
3.500602	5.746191	3.638.2	3.477546	5.910902	3.646.1	3.523958	5.536254	3.638.5	3.477507	5.861784	3.635.1	3.523947	6.403998	3.619.9	3.523947	6.403998	3.619.9
3.523866	5.702301	3.638.3	3.500694	5.816172	3.646.2	3.546991	5.471639	3.638.5	3.500648	5.757938	3.635.2	3.546979	6.247065	3.620.1	3.546979	6.247065	3.620.1
3.546898	5.623761	3.638.3	3.523958	5.774748	3.646.2	3.570139	5.413946	3.638.6	3.523912	5.688707	3.635.3	3.570127	6.173219	3.620.1	3.570127	6.173219	3.620.1
3.570046	5.556771	3.638.3	3.546991	5.721671	3.646.3	3.604861	5.330869	3.638.7	3.546945	5.568707	3.635.4	3.604850	6.060142	3.620.2	3.604850	6.060142	3.620.2
3.604768	5.480541	3.638.4	3.570139	5.523210	3.646.5	3.639583	5.240870	3.638.8	3.570092	5.527169	3.635.5	3.639572	5.910141	3.620.4	3.639572	5.910141	3.620.4
3.639491	5.369661	3.638.5	3.604861	5.433210	3.646.6	3.674306	5.155485	3.638.8	3.604815	5.455630	3.635.5	3.674294	5.700142	3.620.6	3.674294	5.700142	3.620.6
3.674213	5.231061	3.638.7	3.639583	5.322441	3.646.7	3.709028	5.047023	3.639.0	3.639537	5.310246	3.635.7	3.709016	5.658603	3.620.6	3.709016	5.658603	3.620.6
3.708935	5.138661	3.638.8	3.674306	5.269363	3.646.7	3.743750	4.991639	3.639.0	3.674259	5.241015	3.635.8	3.743738	5.527065	3.620.8	3.743738	5.527065	3.620.8
3.743657	5.069361	3.638.8	3.709028	5.172441	3.646.8	3.778472	4.931639	3.639.1	3.708981	5.155631	3.635.8	3.778461	5.427834	3.620.9	3.778461	5.427834	3.620.9
3.778380	5.030091	3.638.9	3.743750	5.036287	3.647.0	3.813542	4.873946	3.639.1	3.743704	5.001015	3.636.0	3.813530	5.395526	3.620.9	3.813530	5.395526	3.620.9
3.813449	4.916901	3.639.0	3.778472	4.967056	3.647.0	3.847917	4.811638	3.639.2	3.778426	4.975630	3.636.0	3.847905	5.270911	3.621.0	3.847905	5.270911	3.621.0
3.847824	4.900731	3.639.0	3.813542	4.890902	3.647.1	3.882639	4.767792	3.639.2	3.813495	4.941015	3.636.1	3.882627	5.180911	3.621.1	3.882627	5.180911	3.621.1
3.882546	4.856841	3.639.0	3.847917	4.853979	3.647.1	3.917361	4.726254	3.639.3	3.847870	4.864861	3.636.1	3.917350	5.148603	3.621.2	3.917350	5.148603	3.621.2
3.917268	4.782921	3.639.1	3.882639	4.784748	3.647.2	3.986806	4.633946	3.639.4	3.882592	4.846400	3.636.2	3.986794	4.952449	3.621.3	3.986794	4.952449	3.621.3
3.986713	4.655871	3.639.2	3.917361	4.724748	3.647.3	4.056944	4.543946	3.639.5	3.917315	4.733323	3.636.3	4.056933	4.825526	3.621.5	4.056933	4.825526	3.621.5
4.056852	4.651251	3.639.2	3.986806	4.727056	3.647.3	4.125694	4.444715	3.639.6	3.986759	4.657169	3.636.3	4.125683	4.723988	3.621.6	4.125683	4.723988	3.621.6
4.125602	4.512651	3.639.4	4.056944	4.540133	3.647.5	4.195139	4.301639	3.639.7	4.056898	4.594861	3.636.4	4.195127	4.523219	3.621.8	4.195127	4.523219	3.621.8
4.195046	4.337091	3.639.6	4.125694	4.413210	3.647.6	4.264583	4.211638	3.639.8	4.125648	4.511784	3.636.5	4.264572	4.465526	3.621.8	4.264572	4.465526	3.621.8
4.264491	4.274721	3.639.6	4.195139	4.293210	3.647.7	4.334028	4.110100	3.639.9	4.195092	4.366400	3.636.6	4.334016	4.317834	3.622.0	4.334016	4.317834	3.622.0
4.333935	4.221591	3.639.7	4.264583	4.267825	3.647.7	4.403472	4.029331	3.640.0	4.264537	4.248707	3.636.8	4.403461	4.181680	3.622.1	4.403461	4.181680	3.622.1
4.403380	4.076061	3.639.8	4.334028	4.092441	3.647.9	4.472917	3.985485	3.640.0	4.333981	4.126400	3.636.9	4.472905	4.163218	3.622.1	4.472905	4.163218	3.622.1
4.472824	4.020621	3.639.9	4.403472	4.069364	3.647.9	4.577083	3.886254	3.640.1	4.403426	4.041015	3.637.0	4.577072	4.031680	3.622.3	4.577072	4.031680	3.622.3
4.576991	3.875091	3.640.0	4.472917	3.983979	3.648.0	4.681250	3.775485	3.640.2	4.472870	4.015630	3.637.0	4.681238	3.842449	3.622.5	4.681238	3.842449	3.622.5
4.681157	3.849681	3.640.1	4.577083	3.843210	3.648.2	4.785417	3.662408	3.640.3	4.577037	3.826400	3.637.2	4.785405	3.727065	3.622.6	4.785405	3.727065	3.622.6
4.785324	3.715701	3.640.2	4.681250	3.732440	3.648.3	4.889583	3.574715	3.640.4	4.681204	3.810246	3.637.2	4.889572	3.669373	3.622.6	4.889572	3.669373	3.622.6
4.889491	3.604821	3.640.3	4.785417	3.598594	3.648.4	5.028472	3.431638	3.640.6	4.889570	3.639477	3.637.4	5.028461	3.487065	3.622.8	5.028461	3.487065	3.622.8
5.028380	3.558621	3.640.3	4.889583	3.492440	3.648.5	5.167361	3.279331	3.640.7	4.889537	3.597938	3.637.4	5.167350	3.362449	3.622.9	5.167350	3.362449	3.622.9
5.167268	3.357651	3.640.5	5.028472	3.407056	3.648.6	5.306250	3.076254	3.640.9	5.028426	3.466400	3.637.5	5.306238	3.157065	3.623.1	5.306238	3.157065	3.623.1
5.306157	3.154371	3.640.7	5.167361	3.323979	3.648.7	5.445139	2.944715	3.641.1	5.167315	3.309477	3.637.7	5.445127	2.960911	3.623.3	5.445127	2.960911	3.623.3
5.445046	2.997291	3.640.9	5.306250	3.130133	3.648.9	5.584028	2.810869	3.641.2	5.306204	3.092553	3.637.9	5.584016	2.917065	3.623.4	5.584016	2.917065	3.623.4
5.583935	2.837901	3.641.1	5.445139	2.869364	3.649.1	5.722917	2.674716	3.641.3	5.445092	2.947169	3.638.1	5.722900	2.713988	3.623.6	5.722900	2.713988	3.623.6
5.722824	2.738571	3.641.2	5.584028	2.777056	3.649.2	5.861806	2.552408	3.641.4	5.861806	2.552408	3.638.1	5.861794	2.582449	3.623.7	5.861794	2.582449	3.623.7
5.861713	2.653101	3.641.2	5.722917	2.622441	3.649.4	6.008217	2.469331	3.641.5	5.722871	2.661015	3.638.3	6.008206	2.513219	3.623.8	6.008206	2.513219	3.623.8
6.008125	2.521431	3.641.4	6.008217	2.403210	3.649.6				6.008171	2.494861	3.638.5						

General Methodology: PSI, temperature, and time readings from Win-Situ™ digital data log were exported to Excel™.csv file.

Drawdown was calculated as PSI at time after pumping minus average PSI before pumping; therefore, at small or zero changes in PSI negative drawdowns may be calculated.

A FORTAN program was written to read the ".csv" file and produce a second file by extracting the records at a frequency of 40 per log-time cycle (in minutes) in order to achieve equal representation of data throughout the pumping and drawdown phases of the test. Elevation (in ft above mean sea level) based on initial groundwater elevation (see Table 4.2) minus drawdown.

Appendix C-2
Time and Water Level Data Values Used in Pumping Test
Analysis: Burdock Test, Drawdown Data

Table C.2-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Drawdown Data

11-2	11-14C	3660.9	11-15	3660.2	11-19*	3662.1	11-11C**	3662
Time (days)	Time (days)	Elevation (ft)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Time (days)	Elevation (ft)
0.000012	0.000012	3664.8	-0.009060	3660.9	0.000012	0.047297	0.000025	3660
0.000023	0.000023	3664.8	0.018633	3660.9	0.000058	0.072682	0.000035	3660
0.000035	0.000035	3664.8	0.002479	3660.9	0.000069	0.042682	0.000046	3660
0.000046	0.000046	3664.7	0.002479	3660.9	0.000093	0.010374	0.000058	3659
0.000058	0.000058	3664.8	-0.078290	3661.0	0.000116	0.042682	0.000069	3658
0.000069	0.000069	3664.8	-0.015983	3660.9	0.000162	0.031143	0.000083	3658
0.000081	0.000081	3664.7	0.060171	3660.8	0.000174	0.054220	0.000093	3657
0.000093	0.000093	3664.8	0.007094	3660.9	0.000185	0.031143	0.000104	3657
0.000104	0.000104	3664.9	0.011710	3660.2	0.000197	0.018462	0.000116	3657
0.000116	0.000116	3664.8	-0.027521	3660.9	0.000208	0.047297	0.000127	3656
0.000127	0.000127	3664.9	-0.015983	3660.9	0.000220	0.031143	0.000141	3656
0.000139	0.000139	3664.8	-0.004444	3660.1	0.000255	0.017297	0.000150	3656
0.000150	0.000150	3664.7	0.016325	3660.2	0.000289	0.010374	0.000162	3656
0.000162	0.000162	3664.9	0.011710	3660.2	0.000370	0.042682	0.000174	3655
0.000174	0.000174	3664.8	0.002479	3660.2	0.000498	0.051912	0.000185	3655
0.000185	0.000185	3664.8	-0.013675	3660.9	0.000521	0.003451	0.000199	3655
0.000197	0.000197	3664.8	-0.022906	3660.2	0.000833	0.056528	0.000208	3655
0.000208	0.000208	3664.8	-0.032137	3660.9	0.001111	0.051912	0.000220	3655
0.000220	0.000220	3664.9	-0.034444	3660.2	0.001319	0.012682	0.000231	3654
0.000231	0.000231	3664.8	0.023248	3660.2	0.001627	0.013846	0.000243	3654
0.000243	0.000243	3664.8	0.016325	3660.2	0.002055	-0.027692	0.000257	3653
0.000255	0.000255	3664.8	-0.002137	3660.9	0.002266	0.004615	0.000266	3653
0.000266	0.000266	3664.8	0.030171	3660.2	0.002788	-0.004615	0.000278	3652
0.000278	0.000278	3664.8	0.009402	3660.9	0.002833	0.018462	0.000289	3652
0.000289	0.000289	3664.8	-0.020598	3660.2	0.003011	0.023077	0.000301	3652
0.000301	0.000301	3664.7	-0.039060	3660.9	0.003312	-0.009231	0.000312	3651
0.000312	0.000312	3664.8	-0.006752	3660.2	0.003624	0.006923	0.000324	3651
0.000324	0.000324	3664.9	0.000171	3660.9	0.003936	-0.027692	0.000336	3650
0.000336	0.000336	3664.7	0.047866	3660.2	0.004347	0.004615	0.000347	3650
0.000347	0.000347	3664.7	0.032479	3660.9	0.004659	-0.004615	0.000359	3650
0.000359	0.000359	3664.7	-0.009060	3660.2	0.005071	0.011538	0.000370	3651
0.000370	0.000370	3664.7	-0.029829	3660.9	0.005382	-0.002308	0.000382	3651
0.000382	0.000382	3664.7	-0.006752	3660.9	0.005700	0.000417	0.000394	3650
0.000394	0.000394	3664.7	0.002479	3660.9	0.006017	0.011538	0.000405	3649
0.000417	0.000417	3664.9	0.002479	3660.2	0.006336	-0.011538	0.000417	3649
0.000451	0.000451	3664.9	0.004786	3660.9	0.006651	0.000463	0.000428	3649
0.000463	0.000463	3664.8	0.009402	3660.9	0.006966	0.018462	0.000439	3649
0.000486	0.000486	3664.7	-0.027521	3660.9	0.007281	0.000000	0.000451	3649
0.000498	0.000498	3664.7	-0.039060	3660.2	0.007597	0.000498	0.000463	3648
0.000521	0.000521	3664.8	-0.043675	3660.9	0.007912	0.000521	0.000479	3648
0.000532	0.000532	3664.7	-0.006752	3660.9	0.008227	0.000556	0.000498	3648
0.000556	0.000556	3664.7	-0.006752	3660.2	0.008542	0.000590	0.000511	3646
0.000590	0.000590	3664.8	0.014017	3660.9	0.008857	0.000625	0.000522	3646
0.000625	0.000625	3664.8	0.011710	3660.9	0.009171	0.000659	0.000534	3646
0.000660	0.000660	3664.8	0.055940	3660.8	0.009486	-0.025385	0.000546	3646
0.000694	0.000694	3664.8	0.055556	3660.8	0.009801	0.000231	0.000558	3645
0.000729	0.000729	3664.7	-0.009060	3660.9	0.010116	0.016154	0.000570	3643
0.000764	0.000764	3664.8	-0.004444	3660.9	0.010431	-0.027692	0.000582	3643
0.000799	0.000799	3664.7	0.018633	3660.9	0.010746	0.126923	0.000594	3642

Table C.2-1: Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Drawdown Data

11-2	3664.8	11-14C	3660.9	11-15	3660.2	11-19*	3662.1	11-11C**	3662
Time (days)	Drawdown (ft)	Time (days)	Elevation (ft)	Drawdown (ft)	Elevation (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)
0.000833	-0.047234	0.000799	3660.9	0.122308	3660.1	0.295174	3661.6	0.000799	20.972307
0.000903	0.049689	0.000833	3660.9	0.014017	3660.2	0.312535	3661.6	0.000833	21.867693
0.000972	-0.012619	0.000903	3660.9	-0.004444	3660.1	0.329896	3661.5	0.000903	23.321539
0.001042	-0.033696	0.000972	3660.9	-0.015983	3660.2	0.347257	3661.5	0.000972	24.676153
0.001111	-0.038003	0.001042	3660.9	-0.004444	3660.2	0.370405	3661.3	0.001042	25.989231
0.001181	-0.044926	0.001111	3660.9	0.004786	3660.2	0.393553	3661.3	0.001111	27.496155
0.001250	-0.038003	0.001181	3660.9	0.011710	3660.2	0.416701	3661.3	0.001181	28.686924
0.001319	-0.077234	0.001250	3660.9	0.023248	3660.2	0.439965	3661.3	0.001250	30.036922
0.001389	-0.019542	0.001319	3660.9	0.013633	3660.2	0.462988	3661.2	0.001319	31.310770
0.001493	-0.058772	0.001389	3660.9	0.034786	3660.2	0.486146	3661.2	0.001389	32.589230
0.001597	-0.021849	0.001493	3660.9	-0.002137	3660.2	0.520868	3661.1	0.001493	34.361538
0.001701	-0.061080	0.001597	3660.9	0.027863	3660.2	0.555590	3661.0	0.001597	36.092308
0.001806	-0.012619	0.001701	3660.9	0.050940	3660.2	0.590312	3661.0	0.001701	37.631538
0.001944	-0.044926	0.001806	3660.9	0.037094	3660.2	0.625035	3660.9	0.001806	39.083076
0.002083	-0.019542	0.001944	3660.9	0.018633	3660.2	0.659757	3660.8	0.001944	41.026154
0.002222	-0.077234	0.002083	3660.9	0.04017	3660.2	0.694479	3660.8	0.002083	42.489231
0.002361	-0.01080	0.002222	3660.9	0.037094	3660.2	0.729549	3660.7	0.002222	44.259232
0.002500	-0.044926	0.002361	3660.9	0.023248	3660.2	0.763924	3660.6	0.002361	45.662308
0.002639	-0.056465	0.002500	3660.9	0.101710	3660.2	0.798646	3660.6	0.002500	47.166924
0.002778	-0.038003	0.002639	3660.9	0.108633	3660.2	0.833368	3660.5	0.002639	48.606922
0.002951	-0.038003	0.002778	3660.9	0.057863	3660.2	0.868091	3660.4	0.002778	49.860001
0.003125	-0.019542	0.002951	3660.9	0.129402	3660.2	0.902928	3660.4	0.002951	51.387692
0.003299	-0.068003	0.003125	3660.9	0.090171	3660.2	0.937257	3660.3	0.003125	52.799999
0.003472	-0.084157	0.003299	3660.9	0.092479	3660.2	1.111146	3660.1	0.003299	54.080769
0.003704	-0.040311	0.003472	3660.9	0.108633	3660.2	1.180590	3660.0	0.003472	55.310768
0.003935	-0.051849	0.003704	3660.9	0.129402	3660.2	1.250035	3660.0	0.003704	56.683846
0.004167	-0.038003	0.003935	3660.7	0.150171	3660.2	1.319479	3659.9	0.003935	57.895386
0.004398	-0.063388	0.004167	3660.7	0.164017	3660.2	1.388924	3659.8	0.004167	59.180771
0.004630	-0.058772	0.004398	3660.7	0.196325	3660.2	1.493090	3659.7	0.004398	60.244614
0.004861	-0.021849	0.004630	3660.7	0.228633	3660.2	1.597257	3659.6	0.004630	61.167694
0.005208	-0.035696	0.004861	3660.7	0.247094	3660.2	1.701424	3659.5	0.004861	61.975384
0.005556	-0.06465	0.005208	3660.6	0.295556	3660.2	1.805590	3659.3	0.005208	63.325386
0.005903	-0.026465	0.005556	3660.6	0.330171	3660.2	1.944479	3659.3	0.005556	64.400772
0.006250	-0.028772	0.005903	3660.5	0.374017	3660.2	2.083368	3659.2	0.005903	65.418465
0.006597	-0.058772	0.006250	3660.4	0.429402	3660.2	2.222257	3659.2	0.006250	66.311539
0.006944	-0.063388	0.006597	3660.4	0.498633	3660.2	2.361146	3659.1	0.006597	67.100769
0.007292	-0.070311	0.006944	3660.3	0.560940	3660.2	2.500035	3659.0	0.006944	67.728462
0.007639	-0.070311	0.007292	3660.3	0.620940	3660.2	2.638924	3659.0	0.007292	68.552307
0.007986	-0.084665	0.007639	3660.2	0.653248	3660.2	2.777813	3658.9	0.007639	69.124619
0.008333	-0.088772	0.007986	3660.2	0.678633	3660.2	2.915423	3658.7	0.007986	69.708458
0.009028	-0.021457	0.008333	3660.2	0.745556	3660.2	2.999988	3658.7	0.008333	70.416924
0.009272	-0.021849	0.009028	3660.2	0.881710	3660.2	3.086528	3658.7	0.009028	71.642311
0.010417	-0.033388	0.009272	3660.2	0.950940	3660.2	3.148836	3658.7	0.009272	72.440773
0.011111	0.075074	0.010417	3660.7	1.03248	3660.2	3.222682	3658.9	0.010417	73.167694
0.011806	-0.065696	0.011111	3660.7	1.193248	3660.2	2.951423	3658.7	0.011111	73.636154
0.012500	-0.044926	0.011806	3660.9	1.287863	3660.2	2.999988	3658.7	0.011806	74.150772
0.013194	-0.056465	0.012500	3660.9	1.424017	3660.2	3.086528	3658.7	0.012500	74.545387
0.013889	-0.031080	0.013194	3660.8	1.504786	3660.2	3.358835	3658.7	0.013194	74.815384
0.014931	0.065843	0.013889	3660.7	1.703248	3660.2	3.358835	3658.7	0.013889	74.995384

Table C.2-1: Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Drawdown Data

11-2	3664.8	11-14C	3660.9	11-15	3660.2	11-19*	3662.1	11-11C**	3662
Time (days)	Drawdown (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)
0.015972	-0.047234	0.014931	3659.1	0.015972	3660.2	0.014931	3662.1	0.014931	3662
0.017014	-0.084157	1.934017	3659.0	0.017014	3660.2	0.017014	3662.1	0.015972	75.251541
0.018056	-0.061080	2.047094	3658.9	0.018056	3660.2	0.018056	3662.1	0.017014	75.565384
0.019444	-0.008151	2.213248	3658.9	0.019444	3660.2	0.019444	3662.1	0.018056	75.904617
0.020833	-0.061080	2.377094	3658.5	0.020833	3660.2	0.020833	3662.1	0.019444	76.105385
0.022222	-0.049542	2.550171	3658.3	0.022222	3660.2	0.022222	3662.1	0.020833	76.299232
0.023611	-0.093388	2.727863	3658.2	0.023611	3660.2	0.023611	3662.1	0.022222	76.631538
0.025000	-0.042619	2.861710	3658.2	0.025000	3660.2	0.025000	3662.1	0.023611	76.746925
0.026389	-0.065696	3.018633	3657.9	0.026389	3660.2	0.026389	3662.1	0.025000	76.998459
0.027778	-0.068003	3.169633	3657.7	0.027778	3660.2	0.027778	3662.1	0.026389	77.176155
0.029154	-0.068003	3.297863	3657.6	0.029154	3660.2	0.029154	3662.1	0.027778	77.411537
0.031250	-0.051849	3.415556	3657.5	0.031250	3660.2	0.031250	3662.1	0.029154	77.464615
0.032986	-0.040311	3.563248	3657.3	0.032986	3660.2	0.032986	3662.1	0.031250	77.723076
0.034722	-0.079542	3.766325	3657.1	0.034722	3660.2	0.034722	3662.1	0.032986	77.755386
0.037037	-0.074926	3.872479	3657.0	0.037037	3660.2	0.037037	3662.1	0.034722	78.025383
0.039352	-0.077234	4.091710	3656.8	0.039352	3660.2	0.039352	3662.1	0.037037	78.302307
0.041667	-0.079542	4.195556	3656.7	0.041667	3660.2	0.041667	3662.1	0.039352	78.567696
0.043981	0.049689	4.417094	3656.5	0.043981	3660.2	0.043981	3662.1	0.041667	78.678459
0.046296	0.049689	4.640940	3656.3	0.046296	3660.2	0.046296	3660.1	0.043981	78.959999
0.048611	-0.047234	4.664017	3656.2	0.048611	3660.2	0.048611	3660.1	0.046296	79.008461
0.052083	0.084304	4.827863	3656.1	0.052083	3660.2	0.052083	3660.2	0.048611	79.151535
0.055556	0.051997	5.035556	3655.9	0.055556	3660.2	0.055556	3660.2	0.052083	79.290001
0.059028	-0.049689	5.22479	3655.7	0.059028	3660.2	0.059028	3660.2	0.055556	79.437691
0.062500	-0.008003	5.358633	3655.5	0.062500	3660.2	0.062500	3660.2	0.059028	79.555556
0.065972	0.028920	5.568633	3655.3	0.065972	3660.2	0.065972	3660.2	0.062500	79.666153
0.069444	-0.012619	5.750940	3655.1	0.069444	3660.2	0.069444	3660.2	0.065972	79.823074
0.072917	0.061228	5.854786	3655.0	0.072917	3660.2	0.072917	3660.2	0.069444	80.005386
0.076470	-0.054157	6.044017	3654.9	0.076470	3660.2	0.076470	3660.1	0.072917	80.173843
0.079942	-0.003388	6.161710	3654.7	0.079942	3660.1	0.079942	3660.1	0.076470	80.266151
0.083414	-0.047234	6.325556	3654.6	0.083414	3660.1	0.083414	3660.1	0.079942	80.420769
0.090359	-0.038003	6.470940	3654.4	0.090359	3660.1	0.090359	3660.1	0.083414	80.533844
0.097303	-0.005696	6.738633	3654.2	0.097303	3660.0	0.097303	3660.0	0.090359	80.702309
0.104248	0.035843	6.953248	3653.9	0.104248	3660.0	0.104248	3660.0	0.097303	80.923843
0.111192	0.035843	7.172479	3653.7	0.111192	3660.0	0.111192	3660.0	0.104248	81.223846
0.118137	0.021997	7.414786	3653.5	0.118137	3660.0	0.118137	3660.0	0.111192	81.373848
0.125081	-0.001080	7.659402	3653.2	0.125081	3659.9	0.125116	3659.9	0.118137	83.363075
0.132025	0.026612	7.855556	3653.0	0.132025	3659.9	0.132060	3659.9	0.125081	83.801537
0.138970	0.045074	8.058633	3652.8	0.138970	3659.9	0.139005	3659.9	0.132025	84.023079
0.149387	0.047381	8.254786	3652.6	0.149387	3659.8	0.149421	3659.8	0.138970	84.295387
0.159803	0.021997	8.520171	3652.4	0.159803	3659.8	0.159838	3659.8	0.149387	84.408463
0.170220	0.045074	8.787864	3652.1	0.170220	3659.6	0.170255	3659.6	0.159803	84.701538
0.180637	0.072766	9.032478	3651.9	0.180637	3659.5	0.180671	3659.5	0.170220	84.886154
0.194525	0.102766	9.251710	3651.6	0.194525	3659.5	0.194560	3659.5	0.180637	85.036156
0.208414	0.125843	9.535556	3651.4	0.208414	3659.3	0.208449	3659.3	0.194525	85.093849
0.222303	0.169689	9.777864	3651.1	0.222303	3659.2	0.222338	3659.2	0.208414	85.407692
0.236192	0.167381	10.004017	3650.9	0.236192	3659.0	0.236227	3659.0	0.222303	85.668465
0.250081	0.190458	10.220941	3650.7	0.250081	3659.0	0.250116	3659.0	0.236192	85.924614
0.263970	0.271228	10.463248	3650.4	0.263970	3658.8	0.264005	3658.8	0.250081	85.924614
0.277859	0.268920	10.629402	3650.3	0.277859	3658.7	0.277894	3658.7	0.263970	86.176155
0.312581	0.342766	11.037864	3649.9	0.312581	3658.6	0.295255	3658.6	0.277859	86.371538
						0.312616		0.295174	86.568459

Table C.2-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Drawdown Data

11-2	3664.8	11-14C	3660.9	11-15	3660.2	11-19*	3662.1	11-11C**	3662
Time (days)	Drawdown (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)	Time (days)	Elevation (ft)
0.329942	0.368151	0.312581	11.213248	0.329977	1.929231			0.312535	86.683846
0.347303	0.411997	0.329942	11.411710	0.347338	2.118462			0.329996	86.801537
0.370451	0.499689	0.347303	11.594017	0.370486	2.303077			0.347257	87.147690
0.393600	0.548151	0.370451	11.884787	0.393634	2.524615			0.370405	87.223846
0.416748	0.561997	0.393600	12.039402	0.416782	2.764615			0.393553	87.350373
0.440012	0.619689	0.416748	12.240171	0.440046	2.933077			0.416701	87.613846
0.463044	0.688920	0.440012	12.397094	0.463079	3.168462			0.439965	87.560768
0.486192	0.762766	0.463044	12.602479	0.486227	3.297692			0.462998	87.625381
0.520914	0.806612	0.486192	12.685555	0.520949	3.620769			0.486146	87.585382
0.555637	0.820458	0.520914	12.969402	0.555671	3.913846			0.520868	88.033844
0.590359	0.894304	0.555637	13.144787	0.590394	4.144615			0.555590	88.010773
0.625081	0.995843	0.590359	13.317863	0.625116	4.352308			0.590312	88.456154
0.659803	1.044304	0.625081	13.433248	0.659838	4.668461			0.625035	88.396156
0.694525	1.097381	0.659803	13.574018	0.694560	4.846154			0.659757	88.737694
0.729247	1.136612	0.694525	13.707864	0.729272	5.088461			0.694479	88.555382
0.763970	1.224304	0.729247	13.867094	0.764005	5.245385			0.729549	88.721535
0.798692	1.298843	0.763970	13.973248	0.798727	5.476154			0.763924	88.975388
0.833414	1.399689	0.798692	14.224787	0.833449	5.651538			0.798646	88.666153
0.902859	1.487381	0.833414	14.324018	0.902893	6.032308			0.833368	88.786156
0.972298	1.598151	0.902859	14.557095	0.973032	6.346154			0.902928	88.931541
1.041748	1.711228	0.972298	14.723248	1.041782	6.643846			0.972951	89.081535
1.111192	1.757381	1.041748	14.868632	1.111227	6.946154			1.041701	89.093079
1.180637	1.840458	1.111192	15.067094	1.180671	7.181539			1.111146	89.376923
1.250081	1.900458	1.180637	15.187094	1.250116	7.375385			1.180590	89.307693
1.319525	2.008920	1.250081	15.297863	1.319560	7.629231			1.250035	89.554619
1.388970	2.117381	1.319525	15.378633	1.389005	7.820769			1.319479	89.826920
1.493137	2.207381	1.388970	15.614017	1.493171	8.099077			1.388924	90.085388
1.597303	2.299689	1.493137	15.789402	1.597338	8.406923			1.493090	89.976921
1.701470	2.440458	1.597303	15.893248	1.701505	8.614615			1.597257	90.182304
1.805637	2.486612	1.701470	16.008633	1.805671	8.824615			1.701424	90.168465
1.944525	2.585843	1.805637	16.149403	1.944560	9.115385			1.805590	90.166153
2.083414	2.634305	1.944525	16.310940	2.083449	9.323077			1.944479	90.678459
2.222303	2.668920	2.083414	16.405556	2.222338	9.459230			2.083368	90.639229
2.361192	2.724304	2.222303	16.516325	2.361227	9.602307			2.22257	90.736153
2.500081	2.844305	2.361192	16.587864	2.500116	9.766154			2.361146	90.819229
2.638970	2.837381	2.500081	16.634018	2.639005	9.953077			2.500035	91.047691
2.777859	2.966612	2.638970	16.770170	2.777894	10.040770			2.638924	91.165382
2.951470	3.084305	2.777859	16.874018	2.951505	10.250770			2.777813	91.137695
2.999988	3.063535	2.951470	17.010172	2.999988	10.373077			2.951423	91.176926
		2.999988	17.014786	3643.9	3643.9			2.999988	91.066154

General Methodology: PSI, temperature, and time readings from Win-Situ™ digital data log were exported to Excel ".csv" file. Drawdown was calculated as PSI at time after pumping minus average PSI before pumping; therefore, at small or zero changes in PSI negative drawdowns may be calculated. A FORTRAN program was written to read the ".csv" file and produce a second file by extracting the records at a frequency of 40 per log-time cycle (in minutes) in order to achieve equal representation of data throughout the pumping and drawdown phases of the test. Elevation (in ft above mean sea level) based on initial groundwater elevation (see Table 5.2) minus drawdown.

Notes: * = early time data filtered to remove calculated negative drawdown values
 ** = initial measurement of groundwater elevation not available; approximate initial groundwater elevation estimated from adjacent wells.

Appendix C-3
Time and Water Level Data Values Used in Pumping Test
Analysis: Burdock Test, Recovery Data

Table C.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Recovery Data

11-2		3664.8	11-14C		3660.9	11-15		3660.2	11-19		3662.1	11-11C		3662
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.000035	3.052742	3661.7	3.000035	17.052603	3643.8	3.000035	10.293365	3649.9	3.000035	3.347297	3658.8	3.002651	91.335097	3571
3.000046	3.045798	3661.8	3.000046	17.017954	3643.9	3.000046	10.353427	3649.8	3.000046	3.370374	3658.7	3.002662	89.775840	3572
3.000058	3.094334	3661.7	3.000058	17.075690	3643.8	3.000058	10.328013	3649.9	3.000058	3.455759	3658.6	3.002674	89.062054	3573
3.000070	3.050451	3661.7	3.000070	16.999449	3643.9	3.000070	10.318778	3649.9	3.000070	3.448836	3658.7	3.002685	88.339016	3574
3.000081	3.089717	3661.7	3.000081	17.036424	3643.9	3.000081	10.309544	3649.9	3.000081	3.444220	3658.7	3.002697	87.676058	3574
3.000093	3.061977	3661.7	3.000093	17.006393	3643.9	3.000093	10.328013	3649.9	3.000093	3.444220	3658.7	3.002708	87.077762	3575
3.000104	3.075829	3661.7	3.000104	17.027189	3643.9	3.000104	10.445812	3649.8	3.000104	3.358835	3658.7	3.002720	86.327019	3576
3.000116	3.055068	3661.7	3.000116	17.013337	3643.9	3.000116	10.274895	3649.9	3.000116	3.351912	3658.7	3.002732	85.668660	3576
3.000127	3.078155	3661.7	3.000127	16.997158	3643.9	3.000127	10.291038	3649.9	3.000127	3.430374	3658.7	3.002743	85.077308	3577
3.000139	3.057359	3661.7	3.000139	16.980979	3643.9	3.000139	10.399637	3649.8	3.000139	3.437297	3658.7	3.002755	84.428184	3578
3.000151	3.066594	3661.7	3.000151	17.052603	3643.8	3.000151	10.307217	3649.9	3.000151	3.335759	3658.8	3.002766	83.869172	3578
3.000162	3.055068	3661.7	3.000162	17.020246	3643.9	3.000162	10.328013	3649.9	3.000162	3.400374	3658.7	3.002778	83.215448	3579
3.000174	3.071212	3661.7	3.000174	17.001776	3643.9	3.000174	10.267951	3649.9	3.000174	3.432682	3658.7	3.002789	82.612535	3579
3.000185	3.089717	3661.7	3.000185	17.013337	3643.9	3.000185	10.445812	3649.8	3.000185	3.393451	3658.7	3.002801	82.021165	3580
3.000197	3.048124	3661.8	3.000197	17.020246	3643.9	3.000197	10.323396	3649.9	3.000197	3.409605	3658.7	3.002813	81.385929	3581
3.000208	3.050451	3661.7	3.000208	17.004067	3643.9	3.000208	10.291038	3649.9	3.000208	3.432682	3658.7	3.002824	80.928536	3581
3.000220	3.098952	3661.7	3.000220	17.013337	3643.9	3.000220	10.300273	3649.9	3.000220	3.391143	3658.7	3.002836	80.267886	3582
3.000232	3.036563	3661.8	3.000232	17.027189	3643.9	3.000232	10.300273	3649.9	3.000232	3.448836	3658.7	3.002847	79.845142	3582
3.000243	3.075829	3661.7	3.000243	16.992541	3643.9	3.000243	10.330304	3649.9	3.000243	3.356528	3658.7	3.002859	79.119812	3583
3.000255	3.085099	3661.7	3.000255	16.990214	3643.9	3.000255	10.281804	3649.9	3.000255	3.488066	3658.6	3.002870	78.657802	3583
3.000266	3.087390	3661.7	3.000266	17.020246	3643.9	3.000266	10.399637	3649.8	3.000266	3.344989	3658.8	3.002882	78.015622	3584
3.000278	3.085099	3661.7	3.000278	16.974036	3643.9	3.000278	10.314161	3649.9	3.000278	3.326528	3658.8	3.002894	77.498184	3585
3.000289	3.029654	3661.8	3.000289	17.057220	3643.8	3.000289	10.314161	3649.9	3.000289	3.483451	3658.6	3.002905	76.918375	3585
3.000301	3.071212	3661.7	3.000301	16.990214	3643.9	3.000301	10.371897	3649.8	3.000301	3.425759	3658.7	3.002917	76.403246	3586
3.000313	3.071212	3661.7	3.000313	17.034098	3643.9	3.000313	10.328013	3649.9	3.000313	3.391143	3658.7	3.002928	75.733344	3586
3.000324	3.101243	3661.7	3.000324	17.015628	3643.9	3.000324	10.295656	3649.9	3.000324	3.400374	3658.7	3.002940	75.220524	3587
3.000336	3.071212	3661.7	3.000336	17.022572	3643.9	3.000336	10.297982	3649.9	3.000336	3.432682	3658.7	3.002951	74.786254	3587
3.000347	3.038889	3661.8	3.000347	16.969418	3643.9	3.000347	10.316452	3649.9	3.000347	3.451143	3658.6	3.002963	74.093246	3588
3.000359	3.096625	3661.7	3.000359	17.006393	3643.9	3.000359	10.334957	3649.9	3.000359	3.455759	3658.6	3.002974	73.559648	3588
3.000370	3.031945	3661.8	3.000370	17.020246	3643.9	3.000370	10.323396	3649.9	3.000370	3.437297	3658.7	3.002986	73.032957	3589
3.000382	3.082773	3661.7	3.000382	16.918626	3644.0	3.000382	10.274895	3649.9	3.000382	3.421143	3658.7	3.002998	72.704941	3589
3.000394	3.043507	3661.8	3.000394	17.022572	3643.9	3.000394	10.316452	3649.9	3.000394	3.425759	3658.7	3.003009	71.935711	3590
3.000405	3.085099	3661.7	3.000405	16.997158	3643.9	3.000405	10.286421	3649.9	3.000405	3.428066	3658.7	3.003021	71.480644	3591
3.000417	3.048124	3661.8	3.000417	17.008684	3643.9	3.000417	10.284130	3649.9	3.000417	3.384220	3658.7	3.003032	70.889274	3591
3.000428	3.096625	3661.7	3.000428	17.031807	3643.9	3.000428	10.302600	3649.9	3.000428	3.458066	3658.6	3.003044	70.441134	3592
3.000451	3.082773	3661.7	3.000451	17.029480	3643.9	3.000451	10.297982	3649.9	3.000451	3.432682	3658.7	3.003067	69.438598	3593
3.000486	3.034272	3661.8	3.000486	17.027189	3643.9	3.000486	10.318778	3649.9	3.000486	3.432682	3658.7	3.003102	68.024879	3594
3.000498	3.041180	3661.8	3.000498	17.041042	3643.9	3.000498	10.311835	3649.9	3.000498	3.414220	3658.7	3.003113	67.482028	3595
3.000509	3.038889	3661.8	3.000509	17.011011	3643.9	3.000509	10.286421	3649.9	3.000509	3.451143	3658.6	3.003125	67.024652	3595
3.000532	3.055068	3661.7	3.000532	16.992541	3643.9	3.000532	10.348810	3649.9	3.000532	3.441912	3658.7	3.003148	66.121445	3596
3.000544	3.034272	3661.8	3.000544	17.008684	3643.9	3.000544	10.281804	3649.9	3.000544	3.402682	3658.7	3.003160	65.712570	3596
3.000567	3.068920	3661.7	3.000567	17.057220	3643.8	3.000567	10.286421	3649.9	3.000567	3.414220	3658.7	3.003183	64.809363	3597
3.000590	3.094334	3661.7	3.000590	17.022572	3643.9	3.000590	10.261007	3649.9	3.000590	3.448836	3658.7	3.003206	64.010101	3598
3.000625	3.052742	3661.7	3.000625	17.008684	3643.9	3.000625	10.295656	3649.9	3.000625	3.356528	3658.7	3.003241	62.806583	3599
3.000660	3.087390	3661.7	3.000660	17.036424	3643.9	3.000660	10.293365	3649.9	3.000660	3.432682	3658.7	3.003276	61.730133	3600
3.000683	3.075829	3661.7	3.000683	17.022572	3643.9	3.000683	10.288747	3649.9	3.000683	3.476528	3658.6	3.003299	60.965520	3601
3.000718	3.055068	3661.7	3.000718	17.017954	3643.9	3.000718	10.425015	3649.8	3.000718	3.340374	3658.8	3.003333	59.974528	3602
3.000764	3.061977	3661.7	3.000764	16.990214	3643.9	3.000764	10.427342	3649.8	3.000764	3.354220	3658.7	3.003380	58.627797	3603
3.000799	3.048124	3661.8	3.000799	17.015628	3643.9	3.000799	10.316452	3649.9	3.000799	3.428066	3658.7	3.003415	57.664528	3604
3.000822	3.085099	3661.7	3.000822	16.999449	3643.9	3.000822	10.286421	3649.9	3.000822	3.448836	3658.7	3.003438	57.070866	3605

Table C.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Recovery Data

11-2		3664.8	11-14C		3660.9	11-15		3660.2	11-19		3662.1	11-11C		3662
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.000857	3.041180	3661.8	3.000857	16.978688	3643.9	3.000857	10.323396	3649.9	3.000857	3.340374	3658.8	3.003472	56.197673	3606
3.000938	3.041180	3661.8	3.000938	17.029480	3643.9	3.000938	10.358045	3649.8	3.000938	3.448836	3658.7	3.003553	54.402802	3608
3.000995	3.050451	3661.7	3.000995	16.976362	3643.9	3.000995	10.277186	3649.9	3.000995	3.432682	3658.7	3.003611	53.229332	3609
3.001076	3.066594	3661.7	3.001076	17.038715	3643.9	3.001076	10.351101	3649.8	3.001076	3.354220	3658.7	3.003692	51.808687	3610
3.001134	3.055068	3661.7	3.001134	17.008684	3643.9	3.001134	10.304926	3649.9	3.001134	3.354220	3658.7	3.003751	50.990938	3611
3.001215	3.092008	3661.7	3.001215	17.038715	3643.9	3.001215	10.277186	3649.9	3.001215	3.349605	3658.8	3.003821	50.133923	3612
3.001285	3.038889	3661.8	3.001285	17.013337	3643.9	3.001285	10.346483	3649.9	3.001285	3.344989	3658.8	3.003900	49.177597	3613
3.001354	3.082773	3661.7	3.001354	17.013337	3643.9	3.001354	10.300273	3649.9	3.001354	3.328835	3658.8	3.003971	48.334434	3614
3.001423	3.094334	3661.7	3.001423	16.914009	3644.0	3.001423	10.323396	3649.9	3.001423	3.421143	3658.7	3.004039	47.567513	3614
3.001528	3.103569	3661.7	3.001528	16.987923	3643.9	3.001528	10.346483	3649.9	3.001528	3.354220	3658.7	3.004144	46.484136	3616
3.001620	3.061977	3661.7	3.001620	16.987923	3643.9	3.001620	10.385749	3649.8	3.001620	3.358835	3658.7	3.004236	45.405359	3617
3.001736	3.071212	3661.7	3.001736	16.967127	3643.9	3.001736	10.325687	3649.9	3.001736	3.384220	3658.7	3.004352	44.317348	3618
3.001840	3.075829	3661.7	3.001840	16.971745	3643.9	3.001840	10.293365	3649.9	3.001840	3.462682	3658.6	3.004457	43.307886	3619
3.001979	3.094334	3661.7	3.001979	16.976362	3643.9	3.001979	10.302600	3649.9	3.001979	3.441912	3658.7	3.004595	42.021218	3620
3.002130	3.085099	3661.7	3.002130	16.946331	3644.0	3.002130	10.334957	3649.9	3.002130	3.351912	3658.7	3.004745	40.621351	3621
3.002245	3.057359	3661.7	3.002245	16.955566	3643.9	3.002245	10.316452	3649.9	3.002245	3.363451	3658.7	3.004861	39.639594	3622
3.002396	3.031945	3661.8	3.002396	16.955566	3643.9	3.002396	10.304926	3649.9	3.002396	3.351912	3658.7	3.005012	38.581614	3623
3.002535	3.045798	3661.8	3.002535	16.946331	3644.0	3.002535	10.341866	3649.9	3.002535	3.356528	3658.7	3.005151	37.555973	3624
3.002674	3.055068	3661.7	3.002674	16.962510	3643.9	3.002674	10.337248	3649.9	3.002674	3.437297	3658.7	3.005289	36.467962	3626
3.002812	3.057359	3661.7	3.002812	16.950948	3643.9	3.002812	10.316452	3649.9	3.002812	3.437297	3658.7	3.005428	35.574007	3626
3.002986	3.048124	3661.8	3.002986	16.883978	3644.0	3.002986	10.286421	3649.9	3.002986	3.377297	3658.7	3.005602	34.502157	3627
3.003160	3.050451	3661.7	3.003160	16.918626	3644.0	3.003160	10.348810	3649.9	3.003160	3.377297	3658.7	3.005776	33.561992	3628
3.003322	3.085099	3661.7	3.003322	16.877034	3644.0	3.003322	10.364953	3649.8	3.003322	3.432682	3658.7	3.005938	32.691125	3629
3.003495	3.080446	3661.7	3.003495	16.842385	3644.1	3.003495	10.328013	3649.9	3.003495	3.425759	3658.7	3.006111	31.808696	3630
3.003727	3.064303	3661.7	3.003727	16.865472	3644.0	3.003727	10.323396	3649.9	3.003727	3.409605	3658.7	3.006343	30.702214	3631
3.003958	3.048124	3661.8	3.003958	16.840059	3644.1	3.003958	10.279512	3649.9	3.003958	3.511143	3658.6	3.006574	29.701987	3632
3.004201	3.075829	3661.7	3.004201	16.826206	3644.1	3.004201	10.328013	3649.9	3.004201	3.453451	3658.6	3.006817	28.727157	3633
3.004433	3.126656	3661.7	3.004433	16.761527	3644.1	3.004433	10.422724	3649.8	3.004433	3.358835	3658.7	3.007048	27.902481	3634
3.004664	3.048124	3661.8	3.004664	16.775379	3644.1	3.004664	10.330304	3649.9	3.004664	3.377297	3658.7	3.007280	27.126325	3635
3.004884	3.094334	3661.7	3.004884	16.724587	3644.2	3.004884	10.362662	3649.8	3.004884	3.386528	3658.7	3.007500	26.454114	3636
3.005231	3.055068	3661.7	3.005231	16.641402	3644.3	3.005231	10.302600	3649.9	3.005231	3.458066	3658.6	3.007847	25.465448	3637
3.005590	3.048124	3661.8	3.005590	16.655255	3644.2	3.005590	10.348810	3649.9	3.005590	3.393451	3658.7	3.008206	24.559915	3637
3.005926	3.186719	3661.6	3.005926	16.625259	3644.3	3.005926	10.302600	3649.9	3.005926	3.388836	3658.7	3.008542	23.811480	3638
3.006285	3.080446	3661.7	3.006285	16.549018	3644.4	3.006285	10.355718	3649.8	3.006285	3.349605	3658.8	3.008901	23.319456	3639
3.006620	3.057359	3661.7	3.006620	16.477394	3644.4	3.006620	10.302600	3649.9	3.006620	3.388836	3658.7	3.009236	22.707308	3639
3.006968	3.052742	3661.7	3.006968	16.417332	3644.5	3.006968	10.323396	3649.9	3.006968	3.368066	3658.7	3.009583	22.210649	3640
3.007315	3.048124	3661.8	3.007315	16.354979	3644.5	3.007315	10.297982	3649.9	3.007315	3.393451	3658.7	3.009931	21.700137	3640
3.007673	3.089717	3661.7	3.007673	16.301825	3644.6	3.007673	10.351101	3649.8	3.007673	3.494989	3658.6	3.010289	21.258923	3641
3.008009	3.101243	3661.7	3.008009	16.241798	3644.7	3.008009	10.358045	3649.8	3.008009	3.474220	3658.6	3.010625	20.866227	3641
3.008356	3.195954	3661.6	3.008356	16.195588	3644.7	3.008356	10.316452	3649.9	3.008356	3.508836	3658.6	3.010972	20.501254	3641
3.009062	3.034272	3661.8	3.009062	16.068520	3644.8	3.009062	10.307217	3649.9	3.009062	3.379605	3658.7	3.011678	19.852148	3642
3.009745	3.154396	3661.6	3.009745	16.054667	3644.8	3.009745	10.291038	3649.9	3.009745	3.453451	3658.6	3.012361	19.337019	3643
3.010451	3.061977	3661.7	3.010451	15.899894	3645.0	3.010451	10.316452	3649.9	3.010451	3.416528	3658.7	3.013067	18.884243	3643
3.011134	3.087390	3661.7	3.011134	15.786713	3645.1	3.011134	10.300273	3649.9	3.011134	3.361143	3658.7	3.013750	18.438429	3644
3.011840	3.112804	3661.7	3.011840	15.638884	3645.3	3.011840	10.339575	3649.9	3.011840	3.388836	3658.7	3.014456	18.108086	3644
3.012523	3.122039	3661.7	3.012523	15.544173	3645.4	3.012523	10.316452	3649.9	3.012523	3.391143	3658.7	3.015139	17.823954	3644
3.013218	3.182101	3661.6	3.013218	15.472550	3645.4	3.013218	10.314161	3649.9	3.013218	3.458066	3658.6	3.015833	17.537513	3644
3.013912	3.098952	3661.7	3.013912	15.354752	3645.5	3.013912	10.307217	3649.9	3.013912	3.379605	3658.7	3.016528	17.288046	3645
3.014954	3.025037	3661.8	3.014954	15.218448	3645.7	3.014954	10.297982	3649.9	3.014954	3.409605	3658.7	3.017570	16.902277	3645
3.015995	3.061977	3661.7	3.015995	15.045205	3645.9	3.015995	10.318778	3649.9	3.015995	3.485759	3658.6	3.018611	16.613527	3645

Table C.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Recovery Data

11-2		3664.8	11-14C		3660.9	11-15		3660.2	11-19		3662.1	11-11C		3662
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.017048	3.006532	3661.8	3.017048	14.899667	3646.0	3.017048	10.344192	3649.9	3.017048	3.515759	3658.6	3.019664	16.340938	3646
3.018090	3.055068	3661.7	3.018090	14.763364	3646.1	3.018090	10.353427	3649.8	3.018090	3.506528	3658.6	3.020706	16.109941	3646
3.019479	3.108186	3661.7	3.019479	14.610917	3646.3	3.019479	10.332631	3649.9	3.019479	3.458066	3658.6	3.022095	15.758820	3646
3.020856	3.048124	3661.8	3.020856	14.421496	3646.5	3.020856	10.325687	3649.9	3.020856	3.414220	3658.7	3.023472	15.500101	3646
3.022245	3.022711	3661.8	3.022245	14.308315	3646.6	3.022245	10.341866	3649.9	3.022245	3.501913	3658.6	3.024861	15.246000	3647
3.023634	3.036563	3661.8	3.023634	14.038035	3646.9	3.023634	10.323396	3649.9	3.023634	3.504220	3658.6	3.026250	14.987281	3647
3.025035	3.038889	3661.8	3.025035	13.987207	3646.9	3.025035	10.267951	3649.9	3.025035	3.448836	3658.7	3.027651	14.830199	3647
3.026423	3.075829	3661.7	3.026423	13.850939	3647.0	3.026423	10.311835	3649.9	3.026423	3.529605	3658.6	3.029039	14.666191	3647
3.027812	3.094334	3661.7	3.027812	13.663809	3647.2	3.027812	10.358045	3649.8	3.027812	3.414220	3658.7	3.030428	14.379750	3648
3.029537	3.027328	3661.8	3.029537	13.550628	3647.3	3.029537	10.316452	3649.9	3.029537	3.402682	3658.7	3.032153	14.231903	3648
3.031285	3.055068	3661.7	3.031285	13.342737	3647.6	3.031285	10.316452	3649.9	3.031285	3.441912	3658.7	3.033901	13.991672	3648
3.033009	3.075829	3661.7	3.033009	13.254934	3647.6	3.033009	10.325687	3649.9	3.033009	3.430374	3658.7	3.035625	13.827664	3648
3.034745	3.061977	3661.7	3.034745	13.146371	3647.8	3.034745	10.321070	3649.9	3.034745	3.511143	3658.6	3.037361	13.647477	3648
3.037060	3.101243	3661.7	3.037060	12.896887	3648.0	3.037060	10.355718	3649.8	3.037060	3.384220	3658.7	3.039676	13.469616	3649
3.039375	3.075829	3661.7	3.039375	12.797559	3648.1	3.039375	10.328013	3649.9	3.039375	3.499605	3658.6	3.041991	13.236294	3649
3.041701	3.168249	3661.6	3.041701	12.642786	3648.3	3.041701	10.330304	3649.9	3.041701	3.471912	3658.6	3.044317	12.996062	3649
3.044005	3.064303	3661.7	3.044005	12.469543	3648.4	3.044005	10.330304	3649.9	3.044005	3.476528	3658.6	3.046620	12.827437	3649
3.046331	3.057359	3661.7	3.046331	12.388684	3648.5	3.046331	10.321070	3649.9	3.046331	3.501913	3658.6	3.048947	12.681899	3649
3.048634	3.045798	3661.8	3.048634	12.099934	3648.8	3.048634	10.297982	3649.9	3.048634	3.488066	3658.6	3.051250	12.517891	3649
3.052106	3.048124	3661.8	3.052106	12.032963	3648.9	3.052106	10.328013	3649.9	3.052106	3.444220	3658.7	3.054722	12.203727	3650
3.055590	3.034272	3661.8	3.055590	11.838924	3649.1	3.055590	10.291038	3649.9	3.055590	3.483451	3658.6	3.058206	12.018923	3650
3.059062	3.041180	3661.8	3.059062	11.656446	3649.2	3.059062	10.316452	3649.9	3.059062	3.379605	3658.7	3.061678	11.797179	3650
3.062535	3.057359	3661.7	3.062535	11.453137	3649.4	3.062535	10.311835	3649.9	3.062535	3.464989	3658.6	3.065151	11.580035	3650
3.065995	3.029654	3661.8	3.065995	11.242954	3649.7	3.065995	10.364953	3649.8	3.065995	3.374990	3658.7	3.068611	11.395230	3651
3.069468	3.057359	3661.7	3.069468	11.085855	3649.8	3.069468	10.431959	3649.8	3.069468	3.464989	3658.6	3.072083	11.210426	3651
3.072951	3.048124	3661.8	3.072951	11.011940	3649.9	3.072951	10.263334	3649.9	3.072951	3.361143	3658.7	3.075567	11.048727	3651
3.076470	3.087390	3661.7	3.076412	10.850259	3650.0	3.076505	10.302600	3649.9	3.076412	3.368066	3658.7	3.079028	10.907824	3651
3.079942	3.061977	3661.7	3.079942	10.653893	3650.2	3.079977	10.286421	3649.9	3.079896	3.370374	3658.7	3.082500	10.704532	3651
3.083530	3.006532	3661.8	3.083530	10.515299	3650.4	3.083449	10.270277	3649.9	3.083484	3.351912	3658.7	3.086100	10.554394	3651
3.090590	3.087390	3661.7	3.090590	10.221931	3650.7	3.090509	10.247155	3650.0	3.090544	3.340374	3658.8	3.093160	10.263335	3652
3.097419	3.048124	3661.8	3.097419	10.027892	3650.9	3.097338	10.205563	3650.0	3.097373	3.326528	3658.8	3.099988	10.020778	3652
3.104363	3.041180	3661.8	3.104363	9.868502	3651.0	3.104282	10.191710	3650.0	3.104317	3.342682	3658.8	3.106933	9.722793	3652
3.111308	3.001914	3661.8	3.111308	9.542777	3651.4	3.111227	10.161679	3650.0	3.111262	3.261913	3658.8	3.113877	9.533371	3652
3.118252	3.013476	3661.8	3.118252	9.351064	3651.5	3.118171	10.177858	3650.0	3.118206	3.268836	3658.8	3.120822	9.297757	3653
3.125197	3.018093	3661.8	3.125197	9.136229	3651.8	3.125116	10.170914	3650.0	3.125151	3.280374	3658.8	3.127766	9.062125	3653
3.132141	3.001914	3661.8	3.132141	8.946807	3652.0	3.132060	10.085473	3650.1	3.132095	3.261913	3658.8	3.134711	8.865778	3653
3.139086	2.997297	3661.8	3.139086	8.755059	3652.1	3.139005	10.043881	3650.2	3.139039	3.259605	3658.8	3.141655	8.678665	3653
3.149502	3.025037	3661.8	3.149502	8.542550	3652.4	3.149421	10.020794	3650.2	3.149456	3.201912	3658.9	3.152072	8.394532	3654
3.159919	3.018093	3661.8	3.159919	8.369307	3652.5	3.159838	9.988436	3650.2	3.159873	3.197297	3658.9	3.162488	8.124270	3654
3.170336	2.964975	3661.8	3.170336	8.092118	3652.8	3.170255	9.875255	3650.3	3.170289	3.178836	3658.9	3.172905	7.951027	3654
3.180752	2.953413	3661.8	3.180752	7.958106	3652.9	3.180671	9.771310	3650.4	3.180706	3.144220	3659.0	3.183322	7.696925	3654
3.194641	2.925709	3661.9	3.194641	7.593150	3653.3	3.194560	9.674272	3650.5	3.194595	3.104990	3659.0	3.197211	7.368892	3655
3.208530	2.941852	3661.9	3.208530	7.445286	3653.5	3.208449	9.611919	3650.6	3.208484	3.132682	3659.0	3.211100	7.227988	3655
3.222419	2.916438	3661.9	3.222419	7.110361	3653.8	3.222338	9.440967	3650.8	3.222373	3.102682	3659.0	3.224988	6.978505	3655
3.236308	2.877172	3661.9	3.236308	6.913996	3654.0	3.236227	9.343965	3650.9	3.236262	3.102682	3659.0	3.238877	6.726712	3655
3.250197	2.854085	3661.9	3.250197	6.789254	3654.1	3.250116	9.253872	3650.9	3.250151	3.044989	3659.1	3.252766	6.521129	3655
3.264086	2.821728	3662.0	3.264086	6.609067	3654.3	3.264005	9.133747	3651.1	3.264039	3.042682	3659.1	3.266655	6.370973	3656
3.277974	2.796349	3662.0	3.277974	6.359618	3654.5	3.277893	9.057506	3651.1	3.277928	2.998836	3659.1	3.280544	6.190804	3656
3.295336	2.805584	3662.0	3.295336	6.246402	3654.7	3.295255	8.875028	3651.3	3.295289	2.964220	3659.1	3.297905	5.945938	3656
3.312697	2.872555	3661.9	3.312697	6.077777	3654.8	3.312616	8.766465	3651.4	3.312651	2.941143	3659.2	3.315266	5.779621	3656

Table C.3-1:
Time and Water Level Data Values Used in Pumping Test Analysis: Burdock Test, Recovery Data

11-2		3664.8	11-14C		3660.9	11-15		3660.2	11-19		3662.1	11-11C		3662
Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)	Time (days)	Drawdown (ft)	Elevation (ft)
3.330058	2.810202	3662.0	3.330058	5.916095	3655.0	3.329977	8.583952	3651.6	3.330012	3.038066	3659.1	3.332627	5.627157	3656
3.347419	2.784788	3662.0	3.347419	5.733582	3655.2	3.347338	8.438414	3651.8	3.347373	2.945759	3659.2	3.349988	5.426191	3657
3.370567	2.727017	3662.1	3.370567	5.514129	3655.4	3.370486	8.295202	3651.9	3.370521	2.890374	3659.2	3.373137	5.204430	3657
3.393715	2.715491	3662.1	3.393715	5.336269	3655.6	3.393634	8.068841	3652.1	3.393669	2.844220	3659.3	3.396285	5.054274	3657
3.416863	2.634632	3662.2	3.416863	5.156082	3655.7	3.416782	7.932537	3652.3	3.416817	2.830374	3659.3	3.419433	4.848691	3657
3.440127	2.639250	3662.2	3.440127	4.957425	3655.9	3.440046	7.729263	3652.5	3.440081	2.784220	3659.3	3.442697	4.696227	3657
3.463160	2.655428	3662.1	3.463160	4.832683	3656.1	3.463079	7.556020	3652.6	3.463113	2.731143	3659.4	3.465729	4.548398	3657
3.486308	2.576896	3662.2	3.486308	4.701033	3656.2	3.486227	7.412773	3652.8	3.486262	2.682682	3659.4	3.488877	4.389007	3658
3.521030	2.537630	3662.3	3.521030	4.520846	3656.4	3.520949	7.110171	3653.1	3.520984	2.687297	3659.4	3.523600	4.261956	3658
3.555752	2.445211	3662.4	3.555752	4.262127	3656.6	3.555671	6.911514	3653.3	3.555706	2.613451	3659.5	3.558322	4.070226	3658
3.590474	2.401327	3662.4	3.590474	4.142003	3656.8	3.590393	6.645887	3653.6	3.590428	2.509605	3659.6	3.593044	3.922379	3658
3.625197	2.387475	3662.4	3.625197	3.984938	3656.9	3.625116	6.458756	3653.7	3.625151	2.541913	3659.6	3.627766	3.806872	3658
3.659919	2.320469	3662.5	3.659919	3.855544	3657.0	3.659838	6.262426	3653.9	3.659873	2.486528	3659.6	3.662488	3.647481	3658
3.694641	2.281203	3662.5	3.694641	3.696188	3657.2	3.694560	6.059117	3654.1	3.694595	2.414989	3659.7	3.697211	3.541227	3658
3.729711	2.269641	3662.5	3.729711	3.603769	3657.3	3.729630	5.839664	3654.4	3.729664	2.368835	3659.7	3.732280	3.393398	3659
3.764086	2.198053	3662.6	3.764086	3.490588	3657.4	3.764005	5.659512	3654.5	3.764039	2.350374	3659.7	3.766655	3.300995	3659
3.798808	2.174930	3662.6	3.798808	3.361229	3657.5	3.798727	5.483943	3654.7	3.798762	2.331913	3659.8	3.801377	3.134679	3659
3.833530	2.131047	3662.7	3.833530	3.296549	3657.6	3.833449	5.363819	3654.8	3.833484	2.297297	3659.8	3.836100	3.104648	3659
3.902974	2.059459	3662.7	3.902974	3.146393	3657.8	3.902893	5.033476	3655.2	3.902928	2.267297	3659.8	3.905544	2.956801	3659
3.973113	2.089490	3662.7	3.973113	3.010090	3657.9	3.973032	4.802497	3655.4	3.973067	2.179605	3659.9	3.975683	2.804336	3659
4.041863	1.948569	3662.9	4.041863	2.797581	3658.1	4.041782	4.504512	3655.7	4.041817	2.274220	3659.8	4.044433	2.663433	3659
4.111308	1.927773	3662.9	4.111308	2.605868	3658.3	4.111227	4.303529	3655.9	4.111262	2.031913	3660.1	4.113877	2.538691	3659
4.180752	1.796087	3663.0	4.180752	2.529627	3658.4	4.180671	4.035576	3656.2	4.180706	1.974220	3660.1	4.183322	2.340035	3660
4.250197	1.752204	3663.0	4.250197	2.402559	3658.5	4.250116	3.811505	3656.4	4.250151	1.928066	3660.2	4.252766	2.270737	3660
4.319641	1.708320	3663.1	4.319641	2.354058	3658.5	4.319560	3.635936	3656.6	4.319595	1.907297	3660.2	4.322211	2.125199	3660
4.389086	1.664436	3663.1	4.389086	2.250112	3658.6	4.389005	3.476545	3656.7	4.389039	1.828836	3660.3	4.391655	2.072063	3660
4.493252	1.664436	3663.1	4.493252	2.160019	3658.7	4.493171	3.296359	3656.9	4.493206	1.798836	3660.3	4.495822	1.975044	3660
4.597419	1.560491	3663.2	4.597419	2.065308	3658.8	4.597338	3.109263	3657.1	4.597373	1.734220	3660.4	4.599988	1.963500	3660
4.701586	1.535077	3663.3	4.701586	1.919770	3659.0	4.701505	2.919842	3657.3	4.701539	1.701913	3660.4	4.704155	1.820288	3660
4.805752	1.456545	3663.3	4.805752	1.910535	3659.0	4.805671	2.751216	3657.4	4.805706	1.688066	3660.4	4.808322	1.732504	3660
4.944641	1.433422	3663.4	4.944641	1.792737	3659.1	4.944560	2.612622	3657.6	4.944595	1.618836	3660.5	4.947211	1.644719	3660
5.083530	1.361834	3663.4	5.083530	1.665668	3659.2	5.083449	2.460140	3657.7	5.083368	1.549605	3660.6	5.086100	1.554625	3660
5.222419	1.347946	3663.5	5.222419	1.540926	3659.4	5.222338	2.229161	3658.0	5.222373	1.480374	3660.6	5.224988	1.439136	3661
5.361308	1.165469	3663.6	5.361308	1.370010	3659.5	5.361227	2.097475	3658.1	5.361146	1.436528	3660.7	5.363877	1.337481	3661
5.500197	1.075375	3663.7	5.500197	1.339979	3659.6	5.500116	1.917288	3658.3	5.500150	1.471143	3660.6	5.502766	1.191961	3661
5.639086	1.015313	3663.8	5.639086	1.268355	3659.6	5.639005	1.797164	3658.4	5.633947	1.401912	3660.7	5.641655	1.044114	3661
5.777974	0.971429	3663.8	5.777974	1.092786	3659.8	5.777894	1.688601	3658.5	5.777813	1.187297	3660.9	5.780544	1.030262	3661
5.909340	0.927546	3663.9	5.909340	1.182879	3659.7	5.909375	1.612395	3658.6	5.893901	1.094989	3661.0	5.911910	1.062601	3661

General Methodology: PSI, temperature, and time readings from Win-Situ™ digital data log were exported to Excel ".csv" file.
 Drawdown was calculated as PSI at time after pumping minus average PSI before pumping; therefore, at small or zero changes in PSI negative drawdowns may be calculated.
 A FORTRAN program was written to read the ".csv" file and produce a second file by extracting the records at a frequency of 40 per log-time cycle (in minutes) in order achieve equal representation of data throughout the pumping and drawdown phases of the test.
 Elevation (in ft above mean sea level) based on initial groundwater elevation (see Table 5.2) minus drawdown.
 Note [redacted] Extracted manually from digital data log.

APPENDIX 2.7-C

Surface Water Quality Summary Tables

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Powertech (USA) Inc. Surface Water Sampling ID:		Sub01		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/18/2008				
Lab ID		R08030252-003	R08060347-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	8.98	19.18	2	8.98	19.18	14.08
Field pH	s.u.	6.47	8.25	2	6.47	8.25	7.36
Field Dissolved Oxygen	mg/L	11.58	6.75	2	6.75	11.58	9.165
Field Conductivity	umhos/cm	240	291	2	240	291	265.5
Field Turbidity	NTU	356	1294	2	356	1294	825
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	44	20	2	20	44	32
Major Ions							
Alkalinity, Total as CaCO3	mg/L	38	84	2	38	84	61
Bicarbonate as HCO3	mg/L	46	102	2	46	102	74
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	21	21.1	2	21	21.1	21.05
Chloride	mg/L	3	5	2	3	5	4
Fluoride	mg/L	0.3	0.6	2	0.3	0.6	0.45
Magnesium, Dissolved	mg/L	4.4	4.4	2	4.4	4.4	4.4
Nitrogen, Ammonia as N	mg/L	< 0.1	1.2	2	< 0.1	1.2	0.63
Nitrogen, Nitrate as N	mg/L	1.2	< 0.1	2	< 0.1	1.2	0.63
Potassium, Dissolved	mg/L	4	8	2	4	8	6
Silica, Dissolved	mg/L	8.6	7.9	2	7.9	8.6	8.25
Sodium, Dissolved	mg/L	18.9	20	2	18.9	20	19.45
Sulfate	mg/L	59	33	2	33	59	46
Physical Properties							
Conductivity @ 25 C	umhos/cm	230	250	2	230	250	240
pH	s.u.	7.73	7.07	2	7.07	7.73	7.4
Sodium Adsorption Ratio (SAR)	unitless	0.98	1	2	0.98	1	0.99
Solids, Suspended Sediment SSC @ 105 C	mg/L	198	393	2	198	393	295.5
Solids, Total Dissolved TDS @ 180 C	mg/L	300	990	2	300	990	645
Solids, Total Suspended TSS @ 105 C	mg/L	100	280	2	100	280	190
Metals- Dissolved							
Aluminum	mg/L	0.2	0.3	2	0.2	0.3	0.25
Arsenic	mg/L	0.001	0.003	2	0.001	0.003	0.002
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	0.15	0.31	2	0.15	0.31	0.23
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.02	0.24	2	0.02	0.24	0.13
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Selenium	mg/L	< 0.001	< 0.005	2	< 0.001	< 0.005	0.0015
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	< 0.0003	0.0003	2	< 0.0003	< 0.0003	0.0002
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	0.01	2	< 0.01	< 0.01	0.008
Metals-Suspended							
Thorium 232	mg/L	0.002	0.004	2	0.002	0.004	0.003
Uranium	mg/L	0.0006	0.0007	2	0.0006	0.0007	0.0007
Metals-Total							
Aluminum	mg/L	22.4	52.8	2	22.4	52.8	37.6
Arsenic	mg/L	0.005	0.014	2	0.005	0.014	0.0095
Barium	mg/L	0.1	0.2	2	0.1	0.2	0.15
Boron	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	25.1	30.2	2	25.1	30.2	27.65
Chromium	mg/L	< 0.05	0.06	2	< 0.05	0.06	0.043
Copper	mg/L	0.02	0.03	2	0.02	0.03	0.025
Iron	mg/L	15.1	44.1	2	15.1	44.1	29.6
Lead	mg/L	0.009	0.026	2	0.009	0.026	0.0175
Magnesium	mg/L	8.4	15.1	2	8.4	15.1	11.75
Manganese	mg/L	0.18	0.77	2	0.18	0.77	0.475
Mercury	mg/L	< 0.0001	< 0.001	2	< 0.0001	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.03

Powertech (USA) Inc. Surface Water Sampling ID:		Sub01		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/18/2008				
Lab ID		R08030252-003	R08060347-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	8.3	20.9	2	8.3	20.9	14.6
Selenium	mg/L	0.001	< 0.001	2	< 0.001	< 0.001	0.0008
Silica	mg/L	104	88.1	2	88.1	104	96.05
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	17.8	21	2	17.8	21	19.4
Thorium 232	mg/L	< 0.005	0.012	2	< 0.005	0.012	0.0073
Uranium	mg/L	0.0011	0.002	2	0.0011	0.002	0.0016
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	0.06	0.13	2	0.06	0.13	0.095
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Metals-Total-Speciated							
Chromium, Hexavalent	mg/L	< 0.01	< 0.05	2	< 0.01	< 0.05	0.015
Chromium, Trivalent	mg/L	< 0.01	0.06	2	< 0.01	0.06	0.033
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	0.001	< 0.001	2	< 0.001	< 0.001	0.0008
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	0.7 (8.4)*	1	0.7	0.7	0.7
Polonium 210	pCi/L	NM	0.1 (1)*	1	0.1	0.1	0.1
Radium 226	pCi/L	0.2	0.5	2	0.2	0.5	0.35
Thorium 230	pCi/L	0.2	0 (0.2)*	2	0	0.2	0.1
Radionuclides-Suspended							
Lead 210	pCi/L	NM	-2.1 (14.6)*	1	-2.1	-2.1	-2.1
Polonium 210	pCi/L	NM	1.3	1	1.3	1.3	1.3
Radium 226	pCi/L	1	-0.2 (0.4)*	2	-0.2	1	0.4
Thorium 230	pCi/L	0.2 (0.2)*	0.4	2	0.2	0.4	0.3
Radionuclides-Total							
Gross Alpha	pCi/L	2.4	16.2	2	2.4	16.2	9.3
Gross Beta	pCi/L	5.1	20.2	2	5.1	20.2	12.65
Gross Gamma	pCi/L	< 20	0 (20)*	2	< 20	< 20	5
Data Quality							
A/C Balance (± 5)	%	4.36	1.86	2	1.86	4.36	3.11
Anions	meq/L	2.17	2.54	2	2.17	2.54	2.355
Cations	meq/L	2.37	2.63	2	2.37	2.63	2.5
Solids, Total Dissolved Calculated	mg/L	162	164	2	162	164	163
TDS Balance (0.80 - 1.20)	dec. %	1.86	6.05	2	1.86	6.05	3.955

Sampling Interval: Quarterly

Missing Samples and Reasons: September and November 2007 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub02				Summary Statistics			
Description		Triangle Mine Pit							
Date Collected		9/27/2007	11/12/2007	2/10/2008	6/18/2008				
Lab ID		R07090389 -002	R07110147 -001	R08020083 -003	R08060347 -002				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Field Temperature	°C	17.94	8.35	1.05	19.56	4	1.05	19.56	11.725
Field pH	s.u.	8.04	7.83	5.55	7.95	4	5.55	8.04	7.343
Field Dissolved Oxygen	mg/L	7.1	8.82	11.15	10.03	4	7.1	11.15	9.275
Field Conductivity	umhos/cm	2171	3743	3523	3676	4	2171	3743	3278.3
Field Turbidity	NTU	2.1	1.2	1.4	0.5	4	0.5	2.1	1.3
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	2	< 2	< 2	< 2	4	< 2	< 2	1.3
Major Ions									
Alkalinity, Total as CaCO3	mg/L	92	102	90	98	4	90	102	95.5
Bicarbonate as HCO3	mg/L	112	124	110	119	4	110	124	116.3
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Calcium, Dissolved	mg/L	622	561	538	620	4	538	622	585
Chloride	mg/L	23	22	24	19	4	19	24	22
Fluoride	mg/L	0.4	0.5	0.5	0.8	4	0.4	0.8	0.55
Magnesium, Dissolved	mg/L	212	180	198	211	4	180	212	200.3
Nitrogen, Ammonia as N	mg/L	NM	< 0.1	< 0.1	< 0.1	3	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	0.1	0.2	< 0.1	4	< 0.1	0.2	0.1
Potassium, Dissolved	mg/L	21	21	23	20	4	20	23	21.3
Silica, Dissolved	mg/L	2	2.4	2.8	< 0.5	4	< 0.5	2.8	1.86
Sodium, Dissolved	mg/L	163	165	169	177	4	163	177	169
Sulfate	mg/L	2840	2390	2500	2410	4	2390	2840	2535
Physical Properties									
Conductivity @ 25 C	umhos/cm	3700	3340	3800	3640	4	3340	3800	3620
pH	s.u.	7.99	7.78	7.81	8.06	4	7.78	8.06	7.91
Sodium Adsorption Ratio (SAR)	unitless	NM	1.6	1.6	1.6	3	1.6	1.6	1.6
Solids, Suspended Sediment SSC @ 105 C	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Solids, Total Dissolved TDS @ 180 C	mg/L	3900	3900	2900	3800	4	2900	3900	3630
Solids, Total Suspended TSS @ 105 C	mg/L	< 5	< 5	10	5	4	< 5	10	5
Metals- Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	< 0.001	0.001	< 0.001	4	< 0.001	< 0.001	0.0008
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.4	0.5	0.5	0.5	4	0.4	0.5	0.48
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.05	< 0.01	4	< 0.01	< 0.05	0.01
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	0.08	0.07	0.06	4	< 0.03	0.08	0.056
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Manganese	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	< 0.05	< 0.01	4	< 0.01	< 0.05	0.01
Selenium	mg/L	0.006	0.002	0.002	< 0.005	4	< 0.005	0.006	0.0031
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.164	0.171	0.177	0.174	4	0.164	0.177	0.1715
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Metals-Suspended									
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	4	< 0.0003	< 0.0003	0.0002
Metals-Total									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	0.002	4	< 0.001	0.002	0.0009
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.5	0.4	0.5	0.5	4	0.4	0.5	0.48
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Calcium	mg/L	NM	NM	579	627	2	579	627	603
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	0.14	0.23	0.22	0.25	4	0.14	0.25	0.21
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Magnesium	mg/L	NM	NM	201	207	2	201	207	204
Manganese	mg/L	0.02	0.02	0.04	0.01	4	0.01	0.04	0.023
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		Sub02				Summary Statistics			
Description		Triangle Mine Pit							
Date Collected		9/27/2007	11/12/2007	2/10/2008	6/18/2008				
Lab ID		R07090389 -002	R07110147 -001	R08020083 -003	R08060347 -002				
Analyte	Units	Result	Result	Result	Result				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Potassium	mg/L	NM	NM	23.6	21.5	2	21.5	23.6	22.55
Selenium	mg/L	0.001	0.002	0.002	0.001	4	0.001	0.002	0.0015
Silica	mg/L	NM	NM	2.9	< 0.5	2	< 0.5	2.9	1.58
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	NM	175	179	2	175	179	177
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.168	0.162	0.168	0.19	4	0.162	0.19	0.172
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06
Zinc	mg/L	< 0.01	< 0.01	< 0.02	< 0.01	4	< 0.01	< 0.02	0.006
Metals- Dissolved Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	0.002	< 0.001	0.001	3	< 0.001	0.002	0.0012
Metals-Total-Speciaded									
Chromium, Hexavalent	mg/L	< 0.05	< 0.005	< 0.005	0.02	4	< 0.005	< 0.05	0.0125
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	0.001	0.002	0.002	0.001	4	0.001	0.002	0.0015
Radionuclides- Dissolved									
Lead 210	pCi/L	< 1	< 1	NM	-0.9 (8.4)*	3	< 1	< 1	0
Polonium 210	pCi/L	< 1	1.8	NM	-0.2 (1)*	3	< 1	1.8	0.7
Radium 226	pCi/L	0.6	0.6	0.4	0.6	4	0.4	0.6	0.6
Thorium 230	pCi/L	< 0.2	< 0.2	0.4	0.1 (0.2)*	4	< 0.2	0.4	0.18
Radionuclides-Suspended									
Lead 210	pCi/L	< 1	< 1	NM	-0.5 (14.6)*	3	< 1	< 1	0.2
Polonium 210	pCi/L	< 1	< 1	NM	0.3 (1)*	3	< 1	< 1	0.4
Radium 226	pCi/L	< 0.2	< 0.2	< 0.2	-0.5 (0.5)*	4	< 0.2	< 0.2	-0.05
Thorium 230	pCi/L	< 0.2	0.7	0.4	0.3	4	< 0.2	0.7	0.38
Radionuclides-Total									
Gross Alpha	pCi/L	82.8	132	131	201	4	82.8	201	136.7
Gross Beta	pCi/L	55.9	83.3	81.5	88.7	4	55.9	88.7	77.35
Gross Gamma	pCi/L	< 20	1060	< 20	0 (20)*	4	< 20	1060	270
Data Quality									
A/C Balance (± 5)	%	-4.01	-1.86	-3.33	3.39	4	-4.01	3.39	-1.453
Anions	meq/L	61.6	52.4	54.6	52.8	4	52.4	61.6	55.4
Cations	meq/L	56.8	50.5	51.1	56.5	4	50.5	56.8	53.73
Solids, Total Dissolved Calculated	mg/L	3950	3400	3510	3520	4	3400	3950	3595
TDS Balance (0.80 - 1.20)	dec. %	0.99	1.15	0.83	1.07	4	0.83	1.15	1.01

Sampling Interval: Quarterly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub03		Summary Statistics			
Description		Mine Dam					
Date Collected		11/12/2007	6/18/2008				
Lab ID		R07110147-003	R08060347-004	n	Minimum	Maximum	Mean**
Analyte	Units	Result	Result				
Field Parameters							
Field Temperature	°C	10.89	31.9	2	10.89	31.9	21.395
Field pH	s.u.	6.49	6.11	2	6.11	6.49	6.3
Field Dissolved Oxygen	mg/L	10.21	8.94	2	8.94	10.21	9.575
Field Conductivity	umhos/cm	1225	1023	2	1023	1225	1124
Field Turbidity	NTU	6.6	12.7	2	6.6	12.7	9.65
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	< 2	< 2	2	< 2	< 2	1
Major Ions							
Alkalinity, Total as CaCO3	mg/L	< 5	< 5	2	< 5	< 5	3
Bicarbonate as HCO3	mg/L	< 5	< 5	2	< 5	< 5	3
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	128	130	2	128	130	129
Chloride	mg/L	9	2	2	2	9	5.5
Fluoride	mg/L	0.2	0.4	2	0.2	0.4	0.3
Magnesium, Dissolved	mg/L	53.4	47.4	2	47.4	53.4	50.4
Nitrogen, Ammonia as N	mg/L	0.1	0.1	2	0.1	0.1	0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Potassium, Dissolved	mg/L	35	16	2	16	35	25.5
Silica, Dissolved	mg/L	7.5	2.1	2	2.1	7.5	4.8
Sodium, Dissolved	mg/L	8.2	4	2	4	8.2	6.1
Sulfate	mg/L	699	510	2	510	699	604.5
Physical Properties							
Conductivity @ 25 C	umhos/cm	1080	975	2	975	1080	1027.5
pH	s.u.	4.58	4.4	2	4.4	4.58	4.49
Sodium Adsorption Ratio (SAR)	unitless	0.15	< 0.1	2	< 0.1	0.15	0.1
Solids, Suspended Sediment SSC @ 105 C	mg/L	< 5	37	2	< 5	37	19.8
Solids, Total Dissolved TDS @ 180 C	mg/L	970	820	2	820	970	895
Solids, Total Suspended TSS @ 105 C	mg/L	6	26	2	6	26	16
Metals- Dissolved							
Aluminum	mg/L	0.6	0.6	2	0.6	0.6	0.6
Arsenic	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	0.12	0.24	2	0.12	0.24	0.18
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Manganese	mg/L	11.6	8.44	2	8.44	11.6	10.02
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	0.23	0.17	2	0.17	0.23	0.2
Selenium	mg/L	< 0.001	< 0.005	2	< 0.001	< 0.005	0.0015
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0014	0.0023	2	0.0014	0.0023	0.0019
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	0.16	0.1	2	0.1	0.16	0.13
Metals-Suspended							
Thorium 232	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.0008	0.0004	2	0.0004	0.0008	0.0006
Metals-Total							
Aluminum	mg/L	0.7	1.2	2	0.7	1.2	0.95
Arsenic	mg/L	< 0.001	0.002	2	< 0.001	0.002	0.0013
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	NM	132	1	132	132	132
Chromium	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	0.16	1.1	2	0.16	1.1	0.63
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Magnesium	mg/L	NM	48.6	1	48.6	48.6	48.6
Manganese	mg/L	12.2	8.43	2	8.43	12.2	10.315
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	0.23	0.17	2	0.17	0.23	0.2

Powertech (USA) Inc. Surface Water Sampling ID:		Sub03		Summary Statistics			
Description		Mine Dam					
Date Collected		11/12/2007	6/18/2008				
Lab ID		R07110147-003	R08060347-004				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	NM	17.9	1	17.9	17.9	17.9
Selenium	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Silica	mg/L	NM	3.8	1	3.8	3.8	3.8
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	5	1	5	5	5
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0014	0.0031	2	0.0014	0.0031	0.0023
Vanadium	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Zinc	mg/L	0.17	0.08	2	0.08	0.17	0.125
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	< 0.005	0.006	2	< 0.005	0.006	0.0043
Chromium, Trivalent	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved							
Lead 210	pCi/L	< 1	-3 (8.4)*	2	< 1	< 1	-1.3
Polonium 210	pCi/L	< 1	0 (1)*	2	< 1	< 1	0.3
Radium 226	pCi/L	4.5	2.6	2	2.6	4.5	3.55
Thorium 230	pCi/L	< 0.2	0 (0.2)*	2	< 0.2	< 0.2	0.05
Radionuclides-Suspended							
Lead 210	pCi/L	< 1	-0.8 (14.6)*	2	< 1	< 1	-0.2
Polonium 210	pCi/L	< 1	0.5 (1)*	2	< 1	< 1	0.5
Radium 226	pCi/L	< 0.2	-0.09 (0.6)*	2	< 0.2	< 0.2	0.01
Thorium 230	pCi/L	1.3	0.4	2	0.4	1.3	0.85
Radionuclides-Total							
Gross Alpha	pCi/L	16.6	19.9	2	16.6	19.9	18.25
Gross Beta	pCi/L	38.8	21.8	2	21.8	38.8	30.3
Gross Gamma	pCi/L	1270	1080	2	1080	1270	1175
Data Quality							
A/C Balance (± 5)	%	0.0673	4.34	2	0.0673	4.34	2.2037
Anions	meq/L	12.9	10.7	2	10.7	12.9	11.8
Cations	meq/L	12.9	11.7	2	11.7	12.9	12.3
Solids, Total Dissolved Calculated	mg/L	851	716	2	716	851	783.5
TDS Balance (0.80 - 1.20)	dec. %	1.14	1.15	2	1.14	1.15	1.145

Sampling Interval: Quarterly

Missing Samples and Reasons: September 2007 and February/March 2008 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub04		Summary Statistics			
Description		Stock Pond					
Date Collected		11/12/2007	6/17/2008				
Lab ID		R07110147-002	R08060316-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	9.53	27.07	2	9.53	27.07	18.3
Field pH	s.u.	7.2	4.68	2	4.68	7.2	5.94
Field Dissolved Oxygen	mg/L	9.77	9.52	2	9.52	9.77	9.645
Field Conductivity	umhos/cm	1868	562	2	562	1868	1215
Field Turbidity	NTU	37.3	1.4	2	1.4	37.3	19.35
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	< 2	< 2	2	< 2	< 2	1
Major Ions							
Alkalinity, Total as CaCO3	mg/L	< 5	< 5	2	< 5	< 5	3
Bicarbonate as HCO3	mg/L	< 5	< 5	2	< 5	< 5	3
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	201	64.8	2	64.8	201	132.9
Chloride	mg/L	18	2	2	2	18	10
Fluoride	mg/L	0.6	0.4	2	0.4	0.6	0.5
Magnesium, Dissolved	mg/L	99.5	27.3	2	27.3	99.5	63.4
Nitrogen, Ammonia as N	mg/L	0.3	< 0.1	2	< 0.1	0.3	0.18
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Potassium, Dissolved	mg/L	46	14	2	14	46	30
Silica, Dissolved	mg/L	16.2	3.7	2	3.7	16.2	9.95
Sodium, Dissolved	mg/L	17.1	2.9	2	2.9	17.1	10
Sulfate	mg/L	1200	291	2	291	1200	745.5
Physical Properties							
Conductivity @ 25 C	umhos/cm	1650	692	2	692	1650	1171
pH	s.u.	4.65	4.89	2	4.65	4.89	4.77
Sodium Adsorption Ratio (SAR)	unitless	0.25	< 0.1	2	< 0.1	0.25	0.15
Solids, Suspended Sediment SSC @ 105 C	mg/L	12	< 5	2	< 5	12	7.3
Solids, Total Dissolved TDS @ 180 C	mg/L	1700	450	2	450	1700	1075
Solids, Total Suspended TSS @ 105 C	mg/L	23	< 5	2	< 5	23	12.8
Metals- Dissolved							
Aluminum	mg/L	1.2	0.4	2	0.4	1.2	0.8
Arsenic	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	0.1	< 0.1	2	< 0.1	< 0.1	0.08
Cadmium	mg/L	0.008	< 0.005	2	< 0.005	0.008	0.0053
Chromium	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	1.48	< 0.03	2	< 0.03	1.48	0.748
Lead	mg/L	0.001	< 0.001	2	< 0.001	< 0.001	0.0008
Manganese	mg/L	20.4	5.2	2	5.2	20.4	12.8
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	0.43	0.09	2	0.09	0.43	0.26
Selenium	mg/L	< 0.001	< 0.005	2	< 0.001	< 0.005	0.0015
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0021	0.0006	2	0.0006	0.0021	0.0014
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	0.37	0.07	2	0.07	0.37	0.22
Metals-Suspended							
Thorium 232	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.0014	< 0.0003	2	< 0.0003	0.0014	0.0008
Metals-Total							
Aluminum	mg/L	1.5	0.5	2	0.5	1.5	1
Arsenic	mg/L	< 0.001	< 0.002	2	< 0.001	< 0.002	0.0008
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Cadmium	mg/L	0.008	< 0.005	2	< 0.005	0.008	0.0053
Calcium	mg/L	NM	61.7	1	61.7	61.7	61.7
Chromium	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	3.73	0.18	2	0.18	3.73	1.955
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Magnesium	mg/L	NM	26.8	1	26.8	26.8	26.8
Manganese	mg/L	21.3	5.18	2	5.18	21.3	13.24
Mercury	mg/L	< 0.001	< 0.0001	2	< 0.0001	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	0.44	0.1	2	0.1	0.44	0.27

Powertech (USA) Inc. Surface Water Sampling ID:		Sub04		Summary Statistics			
Description		Stock Pond					
Date Collected		11/12/2007	6/17/2008				
Lab ID		R07110147-002	R08060316-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	NM	14.7	1	14.7	14.7	14.7
Selenium	mg/L	< 0.001	0.001	2	< 0.001	< 0.001	0.0008
Silica	mg/L	NM	3.9	1	3.9	3.9	3.9
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	3	1	3	3	3
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0024	0.0007	2	0.0007	0.0024	0.0016
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	0.41	0.06	2	0.06	0.41	0.235
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	< 0.05	< 0.005	2	< 0.005	< 0.05	0.0138
Chromium, Trivalent	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	0.001	2	< 0.001	< 0.001	0.0008
Radionuclides- Dissolved							
Lead 210	pCi/L	< 1	-2.1 (8.4)*	2	< 1	< 1	-0.8
Polonium 210	pCi/L	2.2	0.2 (1)*	2	0.2	2.2	1.2
Radium 226	pCi/L	3.4	3.1	2	3.1	3.4	3.25
Thorium 230	pCi/L	0.9	0 (0.2)*	2	0	0.9	0.45
Radionuclides-Suspended							
Lead 210	pCi/L	< 1	6.7 (19.8)*	2	< 1	6.7	3.6
Polonium 210	pCi/L	< 1	0.2 (1)*	2	< 1	< 1	0.4
Radium 226	pCi/L	< 0.2	-0.4 (0.5)*	2	< 0.2	< 0.2	-0.15
Thorium 230	pCi/L	0.5	0.2 (0.2)*	2	0.2	0.5	0.35
Radionuclides-Total							
Gross Alpha	pCi/L	13.6	3	2	3	13.6	8.3
Gross Beta	pCi/L	51.3	13	2	13	51.3	32.15
Gross Gamma	pCi/L	< 20	0 (20)*	2	< 20	< 20	5
Data Quality							
A/C Balance (± 5)	%	-0.902	2.01	2	-0.902	2.01	0.554
Anions	meq/L	22.3	6.13	2	6.13	22.3	14.215
Cations	meq/L	21.9	6.39	2	6.39	21.9	14.145
Solids, Total Dissolved Calculated	mg/L	1450	412	2	412	1450	931
TDS Balance (0.80 - 1.20)	dec. %	1.18	1.08	2	1.08	1.18	1.13

Sampling Interval: Quarterly

Missing Samples and Reasons: September 2007 and February/March 2008 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Sub05

Sampling Interval: Quarterly

Missing Samples and Reasons: September and November 2007 and February/March and June 2008 - Dry

Powertech (USA) Inc. Surface Water Sampling ID:		Sub06				Summary Statistics			
Description		Darrow Mine Pit Northwest							
Date Collected		9/27/2007	11/27/2007	2/10/2008	6/23/2008				
Lab ID		R07090389 -003	R07110302 -002	R08020083 -002	R08060403 -003				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Field Temperature	°C	16.2	2.84	0.03	25.12	4	0.03	25.12	11.048
Field pH	s.u.	3.21	2.82	4.42	3.49	4	2.82	4.42	3.485
Field Dissolved Oxygen	mg/L	6.96	13.32	13.41	9.56	4	6.96	13.41	10.813
Field Conductivity	umhos/cm	4125	6255	7140	4126	4	4125	7140	5411.5
Field Turbidity	NTU	NM	0.2	22	10.3	3	0.2	22	10.83
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	< 2	< 2	< 2	< 2	4	< 2	< 2	1
Major Ions									
Alkalinity, Total as CaCO3	mg/L	82	< 5	< 5	< 5	4	< 5	82	22.4
Bicarbonate as HCO3	mg/L	100	< 5	< 5	< 5	4	< 5	100	26.9
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Calcium, Dissolved	mg/L	512	471	534	328	4	328	534	461.3
Chloride	mg/L	10	7	10	5	4	5	10	8
Fluoride	mg/L	3.7	5.5	7.4	3.9	4	3.7	7.4	5.13
Magnesium, Dissolved	mg/L	771	707	878	436	4	436	878	698
Nitrogen, Ammonia as N	mg/L	NM	3.4	4.5	2	3	2	4.5	3.3
Nitrogen, Nitrate as N	mg/L	0.4	0.4	0.4	0.6	4	0.4	0.6	0.5
Potassium, Dissolved	mg/L	27	29	35	17	4	17	35	27
Silica, Dissolved	mg/L	30	34.1	37.2	10.2	4	10.2	37.2	27.88
Sodium, Dissolved	mg/L	88	86.1	113	52	4	52	113	84.8
Sulfate	mg/L	5030	5700	7330	3180	4	3180	7330	5310
Physical Properties									
Conductivity @ 25 C	umhos/cm	6210	6390	7640	4110	4	4110	7640	6088
pH	s.u.	3.22	3.2	3.19	3.52	4	3.19	3.52	3.283
Sodium Adsorption Ratio (SAR)	unitless	NM	0.59	0.7	0.44	3	0.44	0.7	0.577
Solids, Suspended Sediment SSC @ 105 C	mg/L	10	< 5	14	8	4	< 5	14	8.6
Solids, Total Dissolved TDS @ 180 C	mg/L	8100	8600	6800	4500	4	4500	8600	7000
Solids, Total Suspended TSS @ 105 C	mg/L	5	5	10	14	4	5	14	8.5
Metals- Dissolved									
Aluminum	mg/L	134	131	162	64.4	4	64.4	162	122.85
Arsenic	mg/L	0.003	0.004	0.004	0.002	4	0.002	0.004	0.0033
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.6	< 0.1	< 0.1	0.2	4	< 0.1	0.6	0.23
Cadmium	mg/L	0.026	0.026	0.036	0.015	4	0.015	0.036	0.0258
Chromium	mg/L	< 0.01	< 0.01	< 0.05	0.01	4	< 0.01	< 0.05	0.011
Copper	mg/L	0.11	0.1	0.13	0.07	4	0.07	0.13	0.1
Iron	mg/L	4.28	5.74	7.35	1.88	4	1.88	7.35	4.813
Lead	mg/L	0.001	0.001	0.001	< 0.001	4	< 0.001	< 0.001	0.0009
Manganese	mg/L	223	249	299	133	4	133	299	226
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	5.07	5.58	6.45	3.01	4	3.01	6.45	5.028
Selenium	mg/L	0.035	0.014	0.017	0.009	4	0.009	0.035	0.0188
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	0.011	0.01	0.013	< 0.005	4	< 0.005	0.013	0.0091
Uranium	mg/L	5.29	5.84	7.84	3.22	4	3.22	7.84	5.548
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	4.31	4.45	6.58	2.99	4	2.99	6.58	4.583
Metals-Suspended									
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.0013	0.0013	0.0019	0.0015	4	0.0013	0.0019	0.0015
Metals-Total									
Aluminum	mg/L	160	< 0.1	166	62.8	4	< 0.1	166	97.21
Arsenic	mg/L	< 0.003	0.003	0.004	0.002	4	< 0.003	0.004	0.0026
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.7	< 0.1	< 0.1	0.2	4	< 0.1	0.7	0.25
Cadmium	mg/L	0.03	0.027	0.031	0.019	4	0.019	0.031	0.027
Calcium	mg/L	NM	NM	571	330	2	330	571	450.5
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Copper	mg/L	0.14	0.1	0.13	0.06	4	0.06	0.14	0.11
Iron	mg/L	4.66	5.93	8.22	2.19	4	2.19	8.22	5.25
Lead	mg/L	< 0.003	0.001	0.001	0.011	4	< 0.003	0.011	0.0036
Magnesium	mg/L	NM	NM	930	439	2	439	930	684.5
Manganese	mg/L	215	246	317	0.06	4	0.06	317	194.52
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.0001	4	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		Sub06				Summary Statistics			
Description		Darrow Mine Pit Northwest							
Date Collected		9/27/2007	11/27/2007	2/10/2008	6/23/2008				
Lab ID		R07090389-003	R07110302-002	R08020083-002	R08060403-003				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	6.53	< 0.05	6.14	3.03	4	< 0.05	6.53	3.931
Potassium	mg/L	NM	NM	37.1	17.7	2	17.7	37.1	27.4
Selenium	mg/L	0.013	0.013	0.016	0.008	4	0.008	0.016	0.0125
Silica	mg/L	NM	NM	41.5	11.4	2	11.4	41.5	26.45
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	NM	115	54	2	54	115	84.5
Thorium 232	mg/L	0.01	0.01	0.013	0.005	4	0.005	0.013	0.0095
Uranium	mg/L	7.38	5.83	6.73	3.61	4	3.61	7.38	5.888
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	5.55	4.46	7.22	2.92	4	2.92	7.22	5.038
Metals- Dissolved Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	0.014	0.002	0.009	3	0.002	0.014	0.0083
Metals-Total-Speciati									
Chromium, Hexavalent	mg/L	< 0.05	< 0.02	< 0.01	< 0.005	4	< 0.005	< 0.05	0.0106
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	0.013	0.013	0.016	0.008	4	0.008	0.016	0.0125
Radionuclides- Dissolved									
Lead 210	pCi/L	< 1	< 1	NM	-0.6 (9)*	3	< 1	< 1	0.1
Polonium 210	pCi/L	< 1	1.7	NM	0.3 (1)*	3	< 1	1.7	0.83
Radium 226	pCi/L	4.3	2.0	2.2	2.2	3	2.0	4.3	2.68
Thorium 230	pCi/L	23.8	27.8	25.2	6.3	4	6.3	27.8	20.78
Radionuclides-Suspended									
Lead 210	pCi/L	< 1	< 1	NM	3.7 (7.4)*	3	< 1	3.7	1.57
Polonium 210	pCi/L	4.5	1.4	NM	0.4 (1)*	3	0.4	4.5	2.1
Radium 226	pCi/L	< 0.2	< 0.2	1	-0.2 (0.4)*	4	< 0.2	1	0.25
Thorium 230	pCi/L	< 0.2	1	< 0.2	0.2 (0.2)*	4	< 0.2	1	0.35
Radionuclides-Total									
Gross Alpha	pCi/L	3070	6780	8750	3570	4	3070	8750	5543
Gross Beta	pCi/L	2500	3200	3600	1200	4	1200	3600	2630
Gross Gamma	pCi/L	< 20	264	675	0 (20)*	4	< 20	675	237.3
Data Quality									
A/C Balance (± 5)	%	2.82	-0.009	-2.74	3.85	4	-2.74	3.85	0.98
Anions	meq/L	119	119	154	66.6	4	66.6	154	114.65
Cations	meq/L	126	119	145	72	4	72	145	115.5
Solids, Total Dissolved Calculated	mg/L	7090	7020	8910	4050	4	4050	8910	6768
TDS Balance (0.80 - 1.20)	dec. %	1.14	1.23	0.77	1.12	4	0.77	1.23	1.1

Sampling Interval: Quarterly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub07				Summary Statistics			
Description		Stock Dam							
Date Collected		9/27/2007	11/12/2007	3/24/2008	6/23/2008				
Lab ID		R07090389-001	R07110147-004	R08030252-002	R08060403-004				
Analyte	Units	Result	Result	Result	Result				
Field Parameters									
Field Temperature	°C	17.57	8.3	12.77	28.38	4	8.3	28.38	16.755
Field pH	s.u.	3.83	NM	4.18	4.78	3	3.83	4.78	4.263
Field Dissolved Oxygen	mg/L	7.65	9.5	10.61	11.74	4	7.65	11.74	9.875
Field Conductivity	umhos/cm	801	681	414	312	4	312	801	552
Field Turbidity	NTU	NM	6.2	2.1	41.5	3	2.1	41.5	16.6
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	< 2	< 2	< 2	< 2	4	< 2	< 2	1
Major Ions									
Alkalinity, Total as CaCO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Bicarbonate as HCO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Calcium, Dissolved	mg/L	80	45.6	27.6	21.6	4	21.6	80	43.7
Chloride	mg/L	10	7	4	2	4	2	10	5.8
Fluoride	mg/L	0.2	0.2	0.2	0.2	4	0.2	0.2	0.2
Magnesium, Dissolved	mg/L	49	26.3	16.4	12.2	4	12.2	49	25.98
Nitrogen, Ammonia as N	mg/L	NM	2.4	2.4	0.2	3	0.2	2.4	1.67
Nitrogen, Nitrate as N	mg/L	< 0.1	0.2	0.4	0.2	4	< 0.1	0.4	0.21
Potassium, Dissolved	mg/L	38	27	14	10	4	10	38	22.3
Silica, Dissolved	mg/L	< 1	< 0.5	1.4	2.8	4	< 0.5	2.8	1.24
Sodium, Dissolved	mg/L	10	6	3.4	2	4	2	10	5.4
Sulfate	mg/L	484	357	183	169	4	169	484	298.3
Physical Properties									
Conductivity @ 25 C	umhos/cm	972	610	402	283	4	283	972	566.8
pH	s.u.	3.81	4.12	4.16	4.97	4	3.81	4.97	4.265
Sodium Adsorption Ratio (SAR)	unitless	NM	0.17	0.13	< 0.1	3	< 0.1	0.17	0.117
Solids, Suspended Sediment SSC @ 105 C	mg/L	17	16	< 5	26	4	< 5	26	15.4
Solids, Total Dissolved TDS @ 180 C	mg/L	680	450	220	180	4	180	680	383
Solids, Total Suspended TSS @ 105 C	mg/L	9	8	< 5	32	4	< 5	32	12.9
Metals- Dissolved									
Aluminum	mg/L	1.1	0.5	0.2	0.1	4	0.1	1.1	0.48
Arsenic	mg/L	0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0006
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.2	< 0.1	< 0.1	< 0.1	4	< 0.1	0.2	0.09
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Copper	mg/L	0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.006
Iron	mg/L	0.44	0.48	1.58	0.11	4	0.11	1.58	0.653
Lead	mg/L	0.003	0.004	< 0.001	< 0.001	4	< 0.001	0.004	0.002
Manganese	mg/L	8.21	5.54	2.85	1.98	4	1.98	8.21	4.645
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	0.17	0.12	0.06	0.03	4	0.03	0.17	0.1
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	4	< 0.001	< 0.005	0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0011	0.0004	< 0.0003	0.0024	4	< 0.0003	0.0024	0.001
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	0.17	0.14	0.06	0.04	4	0.04	0.17	0.103
Metals-Suspended									
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	4	< 0.0003	< 0.0003	0.0002
Metals-Total									
Aluminum	mg/L	1.7	0.6	0.4	0.8	4	0.4	1.7	0.88
Arsenic	mg/L	0.001	< 0.001	< 0.001	0.002	4	< 0.001	0.002	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.3	< 0.1	< 0.1	< 0.1	4	< 0.1	0.3	0.11
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Calcium	mg/L	NM	NM	27	22.6	2	22.6	27	24.8
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Copper	mg/L	0.02	< 0.01	< 0.01	< 0.01	4	< 0.01	0.02	0.009
Iron	mg/L	1.6	0.58	1.67	1.47	4	0.58	1.67	1.33
Lead	mg/L	0.003	0.001	< 0.001	0.013	4	< 0.001	0.013	0.0044
Magnesium	mg/L	NM	NM	16	12.7	2	12.7	16	14.35
Manganese	mg/L	9.04	5.55	2.76	2.03	4	2.03	9.04	4.845
Mercury	mg/L	< 0.001	< 0.001	< 0.0001	< 0.0001	4	< 0.0001	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		Sub07				Summary Statistics			
Description		Stock Dam							
Date Collected		9/27/2007	11/12/2007	3/24/2008	6/23/2008				
Lab ID		R07090389-001	R07110147-004	R08030252-002	R08060403-004				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	0.17	0.12	0.07	< 0.05	4	< 0.05	0.17	0.096
Potassium	mg/L	NM	NM	13.7	10.7	2	10.7	13.7	12.2
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Silica	mg/L	NM	NM	1.4	4.9	2	1.4	4.9	3.15
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	NM	3.5	2	2	2	3.5	2.75
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0013	0.0004	0.0003	0.0006	4	0.0003	0.0013	0.0007
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06
Zinc	mg/L	0.2	0.12	0.08	0.02	4	0.02	0.2	0.105
Metals- Dissolved Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded									
Chromium, Hexavalent	mg/L	< 0.005	< 0.02	< 0.05	< 0.005	4	< 0.005	< 0.05	0.01
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved									
Lead 210	pCi/L	< 1	< 1	NM	-1.4 (9)*	3	< 1	< 1	-0.1
Polonium 210	pCi/L	< 1	1.8	NM	0.4 (1)*	3	< 1	1.8	0.9
Radium 226	pCi/L	0.8	0.7	0.4	-0 (0.2)*	4	-0.02	0.8	0.47
Thorium 230	pCi/L	0.8	< 0.2	0 (0.2)*	0 (0.2)*	4	< 0.2	0.8	0.3
Radionuclides-Suspended									
Lead 210	pCi/L	< 1.3	< 1	NM	0.6 (7.4)*	3	< 1	< 1.3	0.58
Polonium 210	pCi/L	< 1.3	< 1	NM	0.9 (1)*	3	< 1	< 1.3	0.68
Radium 226	pCi/L	< 0.3	< 0.2	1 (0.7)*	-0.4 (0.4)*	4	< 0.2	0.5	0.09
Thorium 230	pCi/L	< 0.3	0.9	0 (0.2)*	0.2	4	< 0.3	0.9	0.31
Radionuclides-Total									
Gross Alpha	pCi/L	5.3	5.1	1.9	5.8	4	1.9	5.8	4.53
Gross Beta	pCi/L	33.1	25.8	13.4	12.1	4	12.1	33.1	21.1
Gross Gamma	pCi/L	< 20	1290	< 20	0 (20)*	4	< 20	1290	328
Data Quality									
A/C Balance (± 5)	%	2.11	-1.25	-3.45	-16.2	4	-16.2	2.11	-4.7
Anions	meq/L	10.4	6.18	3.95	3.59	4	3.59	10.4	6.03
Cations	meq/L	10.8	6.03	3.69	2.59	4	2.59	10.8	5.778
Solids, Total Dissolved Calculated	mg/L	682	399	254	225	4	225	682	390
TDS Balance (0.80 - 1.20)	dec. %	0.99	1.13	0.86	0.78	4	0.78	1.13	0.94

Sampling Interval: Quarterly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub08				Summary Statistics			
Description		Stock Pond							
Date Collected		9/26/2007	11/27/2007	2/10/2008	6/23/2008				
Lab ID		R07090368-003	R07110302-001	R08020083-001	R08060403-001				
Analyte	Units	Result	Result	Result	Result				
Field Parameters									
Field Temperature	°C	15.77	4.42	-0.15	24.76	4	-0.15	24.76	11.2
Field pH	s.u.	9.34	7.79	7.5	9.01	4	7.5	9.34	8.41
Field Dissolved Oxygen	mg/L	11.58	11.12	7.54	13.11	4	7.54	13.11	10.838
Field Conductivity	umhos/cm	2357	3499	4208	1891	4	1891	4208	2988.8
Field Turbidity	NTU	1.2	3.6	10.8	8.7	4	1.2	10.8	6.1
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	4	2	< 2	12	4	< 2	12	4.8
Major Ions									
Alkalinity, Total as CaCO3	mg/L	102	136	246	130	4	102	246	153.5
Bicarbonate as HCO3	mg/L	90	166	300	149	4	90	300	176
Carbonate as CO3	mg/L	17	< 5	< 5	< 5	4	< 5	17	6.1
Calcium, Dissolved	mg/L	NM	134	186	79.4	3	79.4	186	133.13
Chloride	mg/L	34	26	42	14	4	14	42	29
Fluoride	mg/L	0.4	0.4	0.4	0.5	4	0.4	0.5	0.43
Magnesium, Dissolved	mg/L	NM	55.9	78.8	31.5	3	31.5	78.8	55.4
Nitrogen, Ammonia as N	mg/L	NM	< 0.1	0.4	< 0.1	3	< 0.1	0.4	0.17
Nitrogen, Nitrate as N	mg/L	< 0.1	0.2	< 0.1	< 0.1	4	< 0.1	0.2	0.09
Potassium, Dissolved	mg/L	NM	13	17	11	3	11	17	13.7
Silica, Dissolved	mg/L	NM	7	9.9	< 0.5	3	< 0.5	9.9	5.72
Sodium, Dissolved	mg/L	NM	576	759	304	3	304	759	546.3
Sulfate	mg/L	1880	1580	1790	747	4	747	1880	1499.3
Physical Properties									
Conductivity @ 25 C	umhos/cm	3630	3160	4180	1800	4	1800	4180	3193
pH	s.u.	9.37	7.59	7.54	8.92	4	7.54	9.37	8.355
Sodium Adsorption Ratio (SAR)	unitless	NM	11	12	7.3	3	7.3	12	10.1
Solids, Suspended Sediment SSC @ 105 C	mg/L	< 5	11	66	13	4	< 5	66	23.1
Solids, Total Dissolved TDS @ 180 C	mg/L	2800	2600	3400	1300	4	1300	3400	2530
Solids, Total Suspended TSS @ 105 C	mg/L	< 5	< 5	14	7	4	< 5	14	6.5
Metals- Dissolved									
Aluminum	mg/L	NM	< 0.1	< 0.1	< 0.1	3	< 0.1	< 0.1	0.05
Arsenic	mg/L	NM	< 0.001	0.002	0.003	3	< 0.001	0.003	0.0018
Barium	mg/L	NM	< 0.1	< 0.1	< 0.1	3	< 0.1	< 0.1	0.05
Boron	mg/L	NM	0.5	0.7	0.4	3	0.4	0.7	0.53
Cadmium	mg/L	NM	< 0.005	< 0.005	< 0.005	3	< 0.005	< 0.005	0.003
Chromium	mg/L	NM	< 0.01	< 0.05	< 0.01	3	< 0.01	< 0.05	0.012
Copper	mg/L	NM	< 0.01	< 0.01	< 0.01	3	< 0.01	< 0.01	0.005
Iron	mg/L	NM	< 0.03	0.03	0.04	3	< 0.03	0.04	0.028
Lead	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Manganese	mg/L	NM	0.09	0.37	0.01	3	0.01	0.37	0.157
Mercury	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	NM	< 0.1	< 0.1	< 0.1	3	< 0.1	< 0.1	0.05
Nickel	mg/L	NM	< 0.01	< 0.05	< 0.01	3	< 0.01	< 0.05	0.012
Selenium	mg/L	NM	< 0.001	< 0.001	< 0.005	3	< 0.001	< 0.005	0.0012
Silver	mg/L	NM	< 0.005	< 0.005	< 0.005	3	< 0.005	< 0.005	0.003
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	3	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0017	0.0028	0.0025	0.0026	4	0.0017	0.0028	0.0024
Vanadium	mg/L	NM	< 0.1	< 0.1	< 0.1	3	< 0.1	< 0.1	0.05
Zinc	mg/L	NM	0.02	0.02	< 0.01	3	< 0.01	0.02	0.015
Metals-Suspended									
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	0.001	< 0.0003	< 0.0003	4	< 0.0003	0.001	0.0004
Metals-Total									
Aluminum	mg/L	NM	< 0.1	< 0.1	0.3	3	< 0.1	0.3	0.13
Arsenic	mg/L	0.003	< 0.001	0.002	0.004	4	< 0.001	0.004	0.0024
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.48	0.5	0.7	0.4	4	0.4	0.7	0.52
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Calcium	mg/L	102	NM	181	83.1	3	83.1	181	122.03
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	0.11	0.1	0.34	0.53	4	0.1	0.53	0.27
Lead	mg/L	< 0.001	< 0.001	< 0.001	0.013	4	< 0.001	0.013	0.0036
Magnesium	mg/L	60	NM	78.3	33.5	3	33.5	78.3	57.27
Manganese	mg/L	0.01	0.05	0.37	0.06	4	0.01	0.37	0.123
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.0001	4	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		Sub08				Summary Statistics			
Description		Stock Pond							
Date Collected		9/26/2007	11/27/2007	2/10/2008	6/23/2008				
Lab ID		R07090368-003	R07110302-001	R08020083-001	R08060403-001				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Potassium	mg/L	14	NM	16.1	11.5	3	11.5	16.1	13.87
Selenium	mg/L	0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0006
Silica	mg/L	< 1	NM	11	0.8	3	< 1	11	4.1
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Sodium	mg/L	618	NM	789	324	3	324	789	577
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0017	0.002	0.0023	0.0016	4	0.0016	0.0023	0.0019
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06
Zinc	mg/L	< 0.01	< 0.01	< 0.04	< 0.01	4	< 0.01	< 0.04	0.009
Metals- Dissolved Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Metals-Total-Speciated									
Chromium, Hexavalent	mg/L	NM	< 0.005	0.008	< 0.005	3	< 0.005	0.008	0.0043
Chromium, Trivalent	mg/L	NM	< 0.01	< 0.01	< 0.01	3	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved									
Lead 210	pCi/L	< 1	4.6	NM	1.9 (9)*	3	< 1	4.6	2.33
Polonium 210	pCi/L	< 1	< 1	NM	0 (1)*	3	< 1	< 1	0.3
Radium 226	pCi/L	< 0.2	0.5	< 0.2	-0.1 (0.2)*	3	< 0.2	0.5	0.15
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08
Radionuclides-Suspended									
Lead 210	pCi/L	< 1	< 1	NM	3.4 (7.4)*	3	< 1	3.4	1.47
Polonium 210	pCi/L	< 1	2.3	NM	0.2 (1)*	3	< 1	2.3	1
Radium 226	pCi/L	< 0.2	< 0.2	1.2	-0.4 (0.5)*	4	< 0.2	1.2	0.25
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08
Radionuclides-Total									
Gross Alpha	pCi/L	< 1	4.8	12.2	14.1	4	< 1	14.1	7.9
Gross Beta	pCi/L	14	9.7	13.9	11.9	4	9.7	14	12.38
Gross Gamma	pCi/L	NM	< 20	< 20	0 (20)*	3	< 20	< 20	7
Data Quality									
A/C Balance (± 5)	%	-0.475	0.414	6.26	3.86	4	-0.475	6.26	2.5148
Anions	meq/L	37.6	36.4	43.5	18.6	4	18.6	43.5	34.03
Cations	meq/L	37.2	36.7	49.3	20.1	4	20.1	49.3	35.83
Solids, Total Dissolved Calculated	mg/L	2550	2470	3020	1270	4	1270	3020	2328
TDS Balance (0.80 - 1.20)	dec. %	1.11	1.05	1.12	0.99	4	0.99	1.12	1.068

Sampling Interval: Quarterly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub09		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/23/2008				
Lab ID		R08030252-004	R08060403-002				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	13.51	26.77	2	13.51	26.77	20.14
Field pH	s.u.	NM	7.91	1	7.91	7.91	7.91
Field Dissolved Oxygen	mg/L	9.65	7.94	2	7.94	9.65	8.795
Field Conductivity	umhos/cm	317	296	2	296	317	306.5
Field Turbidity	NTU	NM	850	1	850	850	850
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	< 4	190	2	< 4	190	96
Major Ions							
Alkalinity, Total as CaCO3	mg/L	28	80	2	28	80	54
Bicarbonate as HCO3	mg/L	34	98	2	34	98	66
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	18.2	17.4	2	17.4	18.2	17.8
Chloride	mg/L	8	4	2	4	8	6
Fluoride	mg/L	0.6	0.5	2	0.5	0.6	0.55
Magnesium, Dissolved	mg/L	11.1	10.3	2	10.3	11.1	10.7
Nitrogen, Ammonia as N	mg/L	< 0.1	0.8	2	< 0.1	0.8	0.43
Nitrogen, Nitrate as N	mg/L	< 0.1	0.3	2	< 0.1	0.3	0.18
Potassium, Dissolved	mg/L	15	13	2	13	15	14
Silica, Dissolved	mg/L	1.6	5.9	2	1.6	5.9	3.75
Sodium, Dissolved	mg/L	13.7	9	2	9	13.7	11.35
Sulfate	mg/L	95	28	2	28	95	61.5
Physical Properties							
Conductivity @ 25 C	umhos/cm	297	249	2	249	297	273
pH	s.u.	8.42	7.4	2	7.4	8.42	7.91
Sodium Adsorption Ratio (SAR)	unitless	0.62	0.42	2	0.42	0.62	0.52
Solids, Suspended Sediment SSC @ 105 C	mg/L	119	425	2	119	425	272
Solids, Total Dissolved TDS @ 180 C	mg/L	250	280	2	250	280	265
Solids, Total Suspended TSS @ 105 C	mg/L	100	190	2	100	190	145
Metals- Dissolved							
Aluminum	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Arsenic	mg/L	0.001	0.002	2	0.001	0.002	0.0015
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	0.1	0.1	2	0.1	0.1	0.1
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	0.04	0.21	2	0.04	0.21	0.125
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Manganese	mg/L	< 0.01	0.08	2	< 0.01	0.08	0.043
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Selenium	mg/L	< 0.001	< 0.005	2	< 0.001	< 0.005	0.0015
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0005	0.0056	2	0.0005	0.0056	0.0031
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	0.01	2	< 0.01	< 0.01	0.008
Metals-Suspended							
Thorium 232	mg/L	0.001	0.005	2	0.001	0.005	0.003
Uranium	mg/L	0.0003	0.001	2	0.0003	0.001	0.0007
Metals-Total							
Aluminum	mg/L	4.8	42.8	2	4.8	42.8	23.8
Arsenic	mg/L	0.002	0.017	2	0.002	0.017	0.0095
Barium	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Boron	mg/L	0.1	0.2	2	0.1	0.2	0.15
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	19.1	22.6	2	19.1	22.6	20.85
Chromium	mg/L	< 0.05	0.05	2	< 0.05	< 0.05	0.04
Copper	mg/L	0.01	0.02	2	0.01	0.02	0.015
Iron	mg/L	3.6	37	2	3.6	37	20.3
Lead	mg/L	0.004	0.045	2	0.004	0.045	0.0245
Magnesium	mg/L	12.2	18.3	2	12.2	18.3	15.25
Manganese	mg/L	0.02	0.23	2	0.02	0.23	0.125
Mercury	mg/L	< 0.0001	< 0.0001	2	< 0.0001	< 0.0001	5E-05
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.03

Powertech (USA) Inc. Surface Water Sampling ID:		Sub09		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/23/2008				
Lab ID		R08030252-004	R08060403-002				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	17	24.9	2	17	24.9	20.95
Selenium	mg/L	0.001	0.002	2	0.001	0.002	0.0015
Silica	mg/L	19.5	73.4	2	19.5	73.4	46.45
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	13.4	9	2	9	13.4	11.2
Thorium 232	mg/L	< 0.005	0.01	2	< 0.005	0.01	0.0063
Uranium	mg/L	0.0008	0.0023	2	0.0008	0.0023	0.0016
Vanadium	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Zinc	mg/L	0.02	0.11	2	0.02	0.11	0.065
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	< 0.01	< 0.005	2	< 0.005	< 0.01	0.0038
Chromium, Trivalent	mg/L	< 0.01	0.05	2	< 0.01	0.05	0.028
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	0.002	2	< 0.001	0.002	0.0013
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	-0.9 (8.6)*	1	-0.9	-0.9	-0.9
Polonium 210	pCi/L	NM	0 (1)*	1	0	0	0
Radium 226	pCi/L	0.03 (0.2)*	0.1 (0.2)*	2	0.03	0.1	0.065
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	2	0	0	0
Radionuclides-Suspended							
Lead 210	pCi/L	NM	4.5 (7.4)*	1	4.5	4.5	4.5
Polonium 210	pCi/L	NM	0.9 (1)*	1	0.9	0.9	0.9
Radium 226	pCi/L	0.5 (0.7)*	-0.06 (0.4)*	2	-0.06	0.5	0.22
Thorium 230	pCi/L	0.5	0.4	2	0.4	0.5	0.45
Radionuclides-Total							
Gross Alpha	pCi/L	1.2	15.9	2	1.2	15.9	8.55
Gross Beta	pCi/L	14.7	20.6	2	14.7	20.6	17.65
Gross Gamma	pCi/L	< 20	0 (20)*	2	< 20	< 20	5
Data Quality							
A/C Balance (± 5)	%	0.04	3.63	2	0.04	3.63	1.835
Anions	meq/L	2.82	2.36	2	2.36	2.82	2.59
Cations	meq/L	2.82	2.54	2	2.54	2.82	2.68
Solids, Total Dissolved Calculated	mg/L	184	149	2	149	184	166.5
TDS Balance (0.80 - 1.20)	dec. %	1.37	1.87	2	1.37	1.87	1.62

Sampling Interval: Quarterly

Missing Samples and Reasons: September and November 2007 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub10		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/23/2008				
Lab ID		R08030252-005	R08060403-006				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	12.07	32.56	2	12.07	32.56	22.315
Field pH	s.u.	8.39	6.86	2	6.86	8.39	7.625
Field Dissolved Oxygen	mg/L	10.1	10.08	2	10.08	10.1	10.09
Field Conductivity	umhos/cm	2233	437	2	437	2233	1335
Field Turbidity	NTU	106	780	2	106	780	443
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	4	170	2	4	170	87
Major Ions							
Alkalinity, Total as CaCO3	mg/L	54	38	2	38	54	46
Bicarbonate as HCO3	mg/L	66	46	2	46	66	56
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	248	34	2	34	248	141
Chloride	mg/L	32	3	2	3	32	17.5
Fluoride	mg/L	0.2	0.3	2	0.2	0.3	0.25
Magnesium, Dissolved	mg/L	103	14.5	2	14.5	103	58.8
Nitrogen, Ammonia as N	mg/L	< 0.1	0.3	2	< 0.1	0.3	0.18
Nitrogen, Nitrate as N	mg/L	< 0.1	0.6	2	< 0.1	0.6	0.33
Potassium, Dissolved	mg/L	41	13	2	13	41	27
Silica, Dissolved	mg/L	< 0.5	4.3	2	< 0.5	4.3	2.28
Sodium, Dissolved	mg/L	208	19	2	19	208	113.5
Sulfate	mg/L	1210	135	2	135	1210	672.5
Physical Properties							
Conductivity @ 25 C	umhos/cm	2490	419	2	419	2490	1454.5
pH	s.u.	8.19	6.96	2	6.96	8.19	7.575
Sodium Adsorption Ratio (SAR)	unitless	2.8	0.7	2	0.7	2.8	1.75
Solids, Suspended Sediment SSC @ 105 C	mg/L	195	737	2	195	737	466
Solids, Total Dissolved TDS @ 180 C	mg/L	2100	410	2	410	2100	1255
Solids, Total Suspended TSS @ 105 C	mg/L	250	220	2	220	250	235
Metals- Dissolved							
Aluminum	mg/L	< 0.1	0.3	2	< 0.1	0.3	0.18
Arsenic	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Boron	mg/L	0.1	< 0.1	2	< 0.1	< 0.1	0.08
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	0.14	2	< 0.03	0.14	0.078
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.02	0.04	2	0.02	0.04	0.03
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Selenium	mg/L	< 0.001	< 0.005	2	< 0.001	< 0.005	0.0015
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0027	0.0005	2	0.0005	0.0027	0.0016
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	0.01	2	< 0.01	< 0.01	0.008
Metals-Suspended							
Thorium 232	mg/L	0.003	0.005	2	0.003	0.005	0.004
Uranium	mg/L	0.0007	0.0008	2	0.0007	0.0008	0.0008
Metals-Total							
Aluminum	mg/L	3	35	2	3	35	19
Arsenic	mg/L	0.002	0.01	2	0.002	0.01	0.006
Barium	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Boron	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	255	39.6	2	39.6	255	147.3
Chromium	mg/L	< 0.05	0.05	2	< 0.05	< 0.05	0.04
Copper	mg/L	0.01	0.02	2	0.01	0.02	0.015
Iron	mg/L	2.89	33.7	2	2.89	33.7	18.295
Lead	mg/L	0.003	0.039	2	0.003	0.039	0.021
Magnesium	mg/L	105	20.6	2	20.6	105	62.8
Manganese	mg/L	0.04	0.35	2	0.04	0.35	0.195
Mercury	mg/L	< 0.0001	< 0.0001	2	< 0.0001	< 0.0001	5E-05
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.03

Powertech (USA) Inc. Surface Water Sampling ID:		Sub10		Summary Statistics			
Description		Stock Pond					
Date Collected		3/24/2008	6/23/2008				
Lab ID		R08030252-005	R08060403-006				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	42.3	23.1	2	23.1	42.3	32.7
Selenium	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Silica	mg/L	10.4	64.6	2	10.4	64.6	37.5
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	209	19	2	19	209	114
Thorium 232	mg/L	< 0.005	0.015	2	< 0.005	0.015	0.009
Uranium	mg/L	0.0033	0.0022	2	0.0022	0.0033	0.0028
Vanadium	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Zinc	mg/L	0.01	0.09	2	0.01	0.09	0.05
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	< 0.01	< 0.005	2	< 0.005	< 0.01	0.0038
Chromium, Trivalent	mg/L	< 0.01	0.05	2	< 0.01	0.05	0.028
Selenium-IV	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	0.1 (9.1)*	1	0.1	0.1	0.1
Polonium 210	pCi/L	NM	0 (1)*	1	0	0	0
Radium 226	pCi/L	0.1 (0.2)*	0.2 (0.2)*	2	0.1	0.2	0.15
Thorium 230	pCi/L	0.1 (0.2)*	0.1 (0.2)*	2	0.1	0.1	0.1
Radionuclides-Suspended							
Lead 210	pCi/L	NM	5.2 (7.4)*	1	5.2	5.2	5.2
Polonium 210	pCi/L	NM	1.1	1	1.1	1.1	1.1
Radium 226	pCi/L	1.1	0.6	2	0.6	1.1	0.85
Thorium 230	pCi/L	0.5	0.3	2	0.3	0.5	0.4
Radionuclides-Total							
Gross Alpha	pCi/L	9	16.3	2	9	16.3	12.65
Gross Beta	pCi/L	36.5	22.1	2	22.1	36.5	29.3
Gross Gamma	pCi/L	< 20	0 (20)*	2	< 20	< 20	5
Data Quality							
A/C Balance (± 5)	%	6.52	5.17	2	5.17	6.52	5.845
Anions	meq/L	27.1	3.73	2	3.73	27.1	15.415
Cations	meq/L	30.9	4.14	2	4.14	30.9	17.52
Solids, Total Dissolved Calculated	mg/L	1870	258	2	258	1870	1064
TDS Balance (0.80 - 1.20)	dec. %	1.1	1.59	2	1.1	1.59	1.345

Sampling Interval: Quarterly

Missing Samples and Reasons: September 2007 - ? Dry ?; November 2007 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub11				Summary Statistics			
Description		Stock Pond							
Date Collected		9/27/2007	11/27/2007	3/24/2008	6/23/2008				
Lab ID		R07090389-004	R07110302-003	R08030252-001	R08060403-005				
Analyte	Units	Result	Result	Result	Result				
Field Parameters									
Field Temperature	°C	15.18	1.77	6.61	33.7	4	1.77	33.7	14.315
Field pH	s.u.	6.97	5.76	7.43	5.47	4	5.47	7.43	6.41
Field Dissolved Oxygen	mg/L	3.01	3.66	14.62	8.52	4	3.01	14.62	7.453
Field Conductivity	umhos/cm	168	252	104	158	4	104	252	170.5
Field Turbidity	NTU	NM	273	159	447	3	159	447	293
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	14	12	< 2	20	4	< 2	20	11.8
Major Ions									
Alkalinity, Total as CaCO3	mg/L	122	56	18	6	4	6	122	50.5
Bicarbonate as HCO3	mg/L	149	68	22	7	4	7	149	61.5
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	3
Calcium, Dissolved	mg/L	22	14.8	6.3	11.2	4	6.3	22	13.58
Chloride	mg/L	4	2	1	< 1	4	< 1	4	1.9
Fluoride	mg/L	0.4	0.3	0.2	0.2	4	0.2	0.4	0.28
Magnesium, Dissolved	mg/L	6	4.2	1.9	3.2	4	1.9	6	3.83
Nitrogen, Ammonia as N	mg/L	NM	2.1	< 0.1	< 0.1	3	< 0.1	2.1	0.73
Nitrogen, Nitrate as N	mg/L	< 0.1	0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.08
Potassium, Dissolved	mg/L	13	11	4	6	4	4	13	8.5
Silica, Dissolved	mg/L	8	7.1	0.8	2.6	4	0.8	8	4.63
Sodium, Dissolved	mg/L	6	5.1	2.7	3	4	2.7	6	4.2
Sulfate	mg/L	15	25	12	43	4	12	43	23.8
Physical Properties									
Conductivity @ 25 C	umhos/cm	202	188	68.7	131	4	68.7	202	147.43
pH	s.u.	7.04	6.41	6.68	5.96	4	5.96	7.04	6.5
Sodium Adsorption Ratio (SAR)	unitless	NM	0.3	0.24	0.19	3	0.19	0.3	0.243
Solids, Suspended Sediment SSC @ 105 C	mg/L	72	120	77	189	4	72	189	114.5
Solids, Total Dissolved TDS @ 180 C	mg/L	220	140	90	200	4	90	220	163
Solids, Total Suspended TSS @ 105 C	mg/L	79	120	61	74	4	61	120	83.5
Metals- Dissolved									
Aluminum	mg/L	0.7	< 0.1	0.2	0.3	4	< 0.1	0.7	0.31
Arsenic	mg/L	0.002	0.002	< 0.001	0.001	4	< 0.001	0.002	0.0014
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	1.93	0.61	1.7	0.72	4	0.61	1.93	1.24
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Manganese	mg/L	1.8	1.52	0.57	0.74	4	0.57	1.8	1.158
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	0.03	< 0.01	< 0.01	< 0.01	4	< 0.01	0.03	0.011
Selenium	mg/L	< 0.004	< 0.001	< 0.001	< 0.005	4	< 0.001	< 0.005	0.0014
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0336	0.0009	< 0.0003	< 0.0003	4	< 0.0003	0.0336	0.0087
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	0.04	0.03	< 0.01	0.03	4	< 0.01	0.04	0.026
Metals-Suspended									
Thorium 232	mg/L	< 0.001	0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0006
Uranium	mg/L	0.0004	0.0017	0.0003	< 0.0003	4	< 0.0003	0.0017	0.0006
Metals-Total									
Aluminum	mg/L	1.2	0.5	1.9	9.6	4	0.5	9.6	3.3
Arsenic	mg/L	0.006	0.005	0.004	0.005	4	0.004	0.006	0.005
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.06
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Calcium	mg/L	NM	NM	6.7	12.3	2	6.7	12.3	9.5
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	31.8	15.7	21.4	4	< 0.03	31.8	17.229
Lead	mg/L	0.002	0.002	0.003	0.021	4	0.002	0.021	0.007
Magnesium	mg/L	NM	NM	2.1	4.3	2	2.1	4.3	3.2
Manganese	mg/L	2.67	1.66	0.66	0.91	4	0.66	2.67	1.475
Mercury	mg/L	< 0.001	< 0.001	< 0.0001	< 0.0001	4	< 0.0001	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		Sub11				Summary Statistics			
Description		Stock Pond							
Date Collected		9/27/2007	11/27/2007	3/24/2008	6/23/2008				
Lab ID		R07090389-004	R07110302-003	R08030252-001	R08060403-005				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.03
Potassium	mg/L	NM	NM	5.2	9	2	5.2	9	7.1
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Silica	mg/L	NM	NM	6.1	20.1	2	6.1	20.1	13.1
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Sodium	mg/L	NM	NM	1.9	2	2	1.9	2	1.95
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0004	0.0016	< 0.0003	0.0008	4	< 0.0003	0.0016	0.0007
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06
Zinc	mg/L	0.02	< 0.01	0.01	0.03	4	< 0.01	0.03	0.016
Metals- Dissolved Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005
Metals-Total-Speciati									
Chromium, Hexavalent	mg/L	< 0.05	< 0.005	< 0.01	< 0.005	4	< 0.005	< 0.05	0.0088
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved									
Lead 210	pCi/L	< 1	< 1	NM	3.2 (9.2)*	3	< 1	3.2	1.4
Polonium 210	pCi/L	< 1	< 1	NM	-0.2 (1)*	3	< 1	< 1	0.3
Radium 226	pCi/L	0.7	< 0.2	0 (0.2)*	-0.1 (0.2)*	3	-0.1	0.7	0.2
Thorium 230	pCi/L	1.6	< 0.2	0.2	0 (0.2)*	4	< 0.2	1.6	0.48
Radionuclides-Suspended									
Lead 210	pCi/L	8.2	< 1	NM	5 (7.4)*	3	< 1	8.2	4.57
Polonium 210	pCi/L	< 2	1.8	NM	1.1	3	< 2	< 2	1.3
Radium 226	pCi/L	< 0.4	< 0.2	0.8	-0.4 (0.5)*	4	< 0.2	0.8	0.2
Thorium 230	pCi/L	< 0.4	3	0 (0.2)*	0.1 (0.2)*	4	< 0.4	3	0.83
Radionuclides-Total									
Gross Alpha	pCi/L	2.9	2	1.4	9.4	4	1.4	9.4	3.93
Gross Beta	pCi/L	10.6	9.1	5.8	10.4	4	5.8	10.6	8.98
Gross Gamma	pCi/L	< 20	1100	< 20	0 (20)*	4	< 20	1100	280
Data Quality									
A/C Balance (± 5)	%	-4.19	4.5	10.9	7.71	4	-4.19	10.9	4.73
Anions	meq/L	2.88	1.72	0.66	1.05	4	0.66	2.88	1.578
Cations	meq/L	2.65	1.88	0.83	1.23	4	0.83	2.65	1.648
Solids, Total Dissolved Calculated	mg/L	155	97	42	79	4	42	155	93.3
TDS Balance (0.80 - 1.20)	dec. %	1.43	1.48	2.14	2.56	4	1.43	2.56	1.903

Sampling Interval: Quarterly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		Sub24		Summary Statistics		
Description		Stock Pond				
Date Collected		2/12/2008				
Lab ID		R08020131-002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Field Temperature	°C	0.93	1	0.93	0.93	0.93
Field pH	s.u.	7.79	1	7.79	7.79	7.79
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	4548	1	4548	4548	4548
Field Turbidity	NTU	9.3	1	9.3	9.3	9.3
Bacteriological						
Bacteria, Fecal Coliform	CFU/100ml	< 2	1	< 2	< 2	1
Major Ions						
Alkalinity, Total as CaCO3	mg/L	88	1	88	88	88
Bicarbonate as HCO3	mg/L	107	1	107	107	107
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	3
Calcium, Dissolved	mg/L	249	1	249	249	249
Chloride	mg/L	26	1	26	26	26
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium, Dissolved	mg/L	89.9	1	89.9	89.9	89.9
Nitrogen, Ammonia as N	mg/L	0.8	1	0.8	0.8	0.8
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium, Dissolved	mg/L	9	1	9	9	9
Silica, Dissolved	mg/L	9.6	1	9.6	9.6	9.6
Sodium, Dissolved	mg/L	791	1	791	791	791
Sulfate	mg/L	2480	1	2480	2480	2480
Physical Properties						
Conductivity @ 25 C	umhos/cm	4480	1	4480	4480	4480
pH	s.u.	7.54	1	7.54	7.54	7.54
Sodium Adsorption Ratio (SAR)	unitless	11	1	11	11	11
Solids, Suspended Sediment SSC @ 105 C	mg/L	75	1	75	75	75
Solids, Total Dissolved TDS @ 180 C	mg/L	3800	1	3800	3800	3800
Solids, Total Suspended TSS @ 105 C	mg/L	17	1	17	17	17
Metals- Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.7	1	0.7	0.7	0.7
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.07	1	0.07	0.07	0.07
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.14	1	0.14	0.14	0.14
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.03
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0004	1	0.0004	0.0004	0.0004
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals-Suspended						
Thorium 232	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Metals-Total						
Aluminum	mg/L	0.1	1	0.1	0.1	0.1
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.6	1	0.6	0.6	0.6
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Calcium	mg/L	249	1	249	249	249
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.03
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	1.44	1	1.44	1.44	1.44
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Magnesium	mg/L	88.1	1	88.1	88.1	88.1
Manganese	mg/L	0.14	1	0.14	0.14	0.14
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.03

Powertech (USA) Inc. Surface Water Sampling ID:		Sub24		Summary Statistics		
Description		Stock Pond				
Date Collected		2/12/2008				
Lab ID		R08020131-002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	8.8	1	8.8	8.8	8.8
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silica	mg/L	10.6	1	10.6	10.6	10.6
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Sodium	mg/L	767	1	767	767	767
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	< 0.0004	1	< 0.0004	< 0.0004	0.0002
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	0.02	1	0.02	0.02	0.02
Metals- Dissolved Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals-Total-Speciati ed						
Chromium, Hexavalent	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	0.001	1	0.001	0.001	0.001
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved						
Lead 210	pCi/L	NM	0	NM	NM	NM
Polonium 210	pCi/L	NM	0	NM	NM	NM
Radium 226	pCi/L	0.8	1	0.8	0.8	0.8
Thorium 230	pCi/L	< 0.2	1	< 0.2	< 0.2	0.1
Radionuclides-Suspended						
Lead 210	pCi/L	NM	0	NM	NM	NM
Polonium 210	pCi/L	NM	0	NM	NM	NM
Radium 226	pCi/L	< 0.2	1	< 0.2	< 0.2	0.1
Thorium 230	pCi/L	1.4	1	1.4	1.4	1.4
Radionuclides-Total						
Gross Alpha	pCi/L	10.2	1	10.2	10.2	10.2
Gross Beta	pCi/L	9.3	1	9.3	9.3	9.3
Gross Gamma	pCi/L	< 20	1	< 20	< 20	10
Data Quality						
A/C Balance (± 5)	%	0.4	1	0.4	0.4	0.4
Anions	meq/L	54.1	1	54.1	54.1	54.1
Cations	meq/L	54.5	1	54.5	54.5	54.5
Solids, Total Dissolved Calculated	mg/L	3690	1	3690	3690	3690
TDS Balance (0.80 - 1.20)	dec. %	1.03	1	1.03	1.03	1.03

Sampling Interval: Once

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		BVC01						
Description		Beaver Creek Downstream						
Date Collected		7/24/2007	8/20/2007	9/26/2007	10/17/2007	11/19/2007	12/11/2007	1/11/2008
Lab ID		R07070382	R07080273	R07090368	R07100295	R07110229	R07120148	R08010124
Analyte	Units	-001	-001	-002	-003	-002	-002	-002
		Result	Result	Result	Result	Result	Result	Result
Field Parameters								
Field Temperature	°C	NM	27.57	16.74	12.14	3.54	-0.08	-0.07
Field pH	s.u.	NM	8.91	8.87	8.58	8.2	7.94	NM
Field Dissolved Oxygen	mg/L	NM	12.29	10.95	11.13	12.2	11.21	10.07
Field Conductivity	umhos/cm	NM	1777	1339	5726	7678	4134	2812
Field Turbidity	NTU	NM	21	1.7	2.5	6.4	6.4	8.6
Bacteriological								
Bacteria, Fecal Coliform	CFU/100ml	68	2500	< 2	76	30	6	16
Major Ions								
Alkalinity, Total as CaCO3	mg/L	134	112	78	112	196	188	214
Bicarbonate as HCO3	mg/L	163	137	85	137	239	229	261
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Calcium, Dissolved	mg/L	NM	NM	NM	314	379	452	499
Chloride	mg/L	101	158	141	852	1370	581	208
Fluoride	mg/L	0.7	0.6	0.9	0.5	0.2	0.3	0.4
Magnesium, Dissolved	mg/L	NM	NM	NM	141	209	110	114
Nitrogen, Ammonia as N	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.3	0.4
Potassium, Dissolved	mg/L	NM	NM	NM	15	11	5	5
Silica, Dissolved	mg/L	NM	NM	NM	< 1	1.6	11	13
Sodium, Dissolved	mg/L	NM	NM	NM	950	1240	426	182
Sulfate	mg/L	463	511	568	2180	2540	1430	1470
Physical Properties								
Conductivity @ 25 C	umhos/cm	1480	1660	1740	5750	7290	4370	3140
pH	s.u.	8.31	8.8	8.79	7.84	7.77	7.88	7.68
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	NM	11	13	4.7	1.9
Solids, Suspended Sediment SSC @ 105 C	mg/L	19	47	40	4510	20	13	12
Solids, Total Dissolved TDS @ 180 C	mg/L	950	1100	1200	4600	6100	3500	2900
Solids, Total Suspended TSS @ 105 C	mg/L	27	51	31	< 5	20	10	12
Metals- Dissolved								
Aluminum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	NM	NM	NM	0.001	< 0.001	0.002	< 0.001
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	NM	NM	NM	0.3	0.6	0.2	0.2
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	NM	NM	< 0.03	0.18	< 0.03	< 0.03
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	NM	NM	NM	0.08	0.23	0.06	0.05
Mercury	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	0.002	0.003
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	NM	NM	0.0075	0.0097	0.0182	0.0124	0.0134
Vanadium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01
Metals-Suspended								
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Metals-Total								
Aluminum	mg/L	NM	NM	NM	0.1	< 0.1	0.2	0.3
Arsenic	mg/L	0.002	0.002	0.002	0.001	< 0.001	0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.2	0.2	0.21	0.3	0.5	0.2	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium	mg/L	68.4	73	53	NM	NM	NM	506
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.48	0.66	0.61	0.13	0.05	0.25	0.29
Lead	mg/L	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium	mg/L	29.5	27.8	28	NM	NM	NM	121
Manganese	mg/L	0.15	0.11	0.2	0.16	0.18	0.08	0.09
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Powertech (USA) Inc. Surface Water Sampling ID:		BVC01						
Description		Beaver Creek Downstream						
Date Collected		7/24/2007	8/20/2007	9/26/2007	10/17/2007	11/19/2007	12/11/2007	1/11/2008
Lab ID		R07070382	R07080273	R07090368	R07100295	R07110229	R07120148	R08010124
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/L	9.5	11.4	11	NM	NM	NM	5.3
Selenium	mg/L	0.002	0.003	0.001	< 0.001	< 0.001	0.001	0.003
Silica	mg/L	2.7	6.2	3.8	NM	NM	NM	14.6
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	213	263	242	NM	NM	NM	191
Thorium 232	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.004	0.0046	0.0076	0.0097	0.018	0.0142	0.0139
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01
Metals- Dissolved Speciated								
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	0.002	0.003
Metals-Total-Speciated								
Chromium, Hexavalent	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005
Chromium, Trivalent	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	0.001	0.003
Radionuclides- Dissolved								
Lead 210	pCi/L	NM	NM	< 1	< 1	4.6	11	< 1
Polonium 210	pCi/L	NM	NM	< 1	2.6	1.9	1	< 1
Radium 226	pCi/L	NM	NM	< 0.2	0.3	< 0.2	< 0.2	< 0.2
Thorium 230	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Radionuclides-Suspended								
Lead 210	pCi/L	NM	NM	< 1	< 1	< 1	3	< 1
Polonium 210	pCi/L	NM	NM	< 1	< 1	2.5	1.6	1.4
Radium 226	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	0.4	< 0.2
Thorium 230	pCi/L	NM	NM	< 0.2	0.7	< 0.2	< 0.2	< 0.2
Radionuclides-Total								
Gross Alpha	pCi/L	5.9	7.1	6.6	12	65.8	27.9	12.6
Gross Beta	pCi/L	10.3	14.7	9.4	2.7	44.4	14.9	4.1
Gross Gamma	pCi/L	NM	NM	NM	< 20	< 20	1310	< 20
Data Quality								
A/C Balance (± 5)	%	0.715	1.06	-4.61	-1.92	-2.71	0.412	1.85
Anions	meq/L	15.2	17.4	17.4	71.6	95.3	49.8	40.8
Cations	meq/L	15.4	17.8	15.9	68.9	90.3	50.3	42.3
Solids, Total Dissolved Calculated	mg/L	967	1120	1090	4520	5860	3110	2610
TDS Balance (0.80 - 1.20)	dec. %	0.98	0.96	1.08	1.02	1.04	1.14	1.09

Powertech (USA) Inc. Surface Water Sampling ID:		BVC01				Summary Statistics			
Description		Beaver Creek Downstream							
Date Collected		3/9/2008	4/14/2008	5/26/2008	6/17/2008				
Lab ID		R08030091	R08040178	R08050356	R08060315				
Analyte	Units	Result	Result	Result	Result				
Field Parameters									
Field Temperature	°C	0.18	16.03	12.85	23.83	10	-0.08	27.57	11.273
Field pH	s.u.	8.24	8.15	7.95	8.13	9	7.94	8.91	8.33
Field Dissolved Oxygen	mg/L	13.57	9.2	6.86	10.39	10	6.86	13.57	10.787
Field Conductivity	umhos/cm	1718	5109	860	5650	10	860	7678	3680.3
Field Turbidity	NTU	308	11.8	1790	53	10	1.7	1790	220.94
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	< 2	< 2	5700	44	11	< 2	5700	767.5
Major Ions									
Alkalinity, Total as CaCO3	mg/L	214	160	84	156	11	78	214	149.8
Bicarbonate as HCO3	mg/L	261	195	102	190	11	85	261	181.7
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	11	< 5	< 5	3
Calcium, Dissolved	mg/L	308	425	75.5	358	8	75.5	499	351.3
Chloride	mg/L	113	973	38	970	11	38	1370	500.5
Fluoride	mg/L	0.2	< 0.1	0.5	0.6	11	< 0.1	0.9	0.5
Magnesium, Dissolved	mg/L	129	127	17.2	124	8	17.2	209	121.4
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	8	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	0.6	< 0.1	11	< 0.1	0.6	0.16
Potassium, Dissolved	mg/L	12	10	7	8	8	5	15	9
Silica, Dissolved	mg/L	6.9	2.1	2.9	2.2	8	< 1	13	5
Sodium, Dissolved	mg/L	864	625	93	856	8	93	1240	654.5
Sulfate	mg/L	2490	1570	317	1410	11	317	2540	1359
Physical Properties									
Conductivity @ 25 C	umhos/cm	5000	5340	908	5140	11	908	7290	3801.6
pH	s.u.	8.1	8.09	7.69	8.13	11	7.68	8.8	8.098
Sodium Adsorption Ratio (SAR)	unitless	10	6.8	2.5	9.9	8	1.9	13	7.48
Solids, Suspended Sediment SSC @ 105 C	mg/L	11	19	4840	59	11	11	4840	871.8
Solids, Total Dissolved TDS @ 180 C	mg/L	4300	3800	620	4000	11	620	6100	3006
Solids, Total Suspended TSS @ 105 C	mg/L	12	17	4600	100	11	< 5	4600	443.9
Metals- Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	8	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	0.001	8	< 0.001	0.002	0.0008
Barium	mg/L	< 0.1	< 0.1	< 0.1	0.1	8	< 0.1	< 0.1	0.06
Boron	mg/L	0.2	0.3	0.2	0.4	8	0.2	0.6	0.3
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	8	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	8	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	8	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	< 0.03	0.03	8	< 0.03	0.18	0.038
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.32	0.83	< 0.01	0.73	8	< 0.01	0.83	0.288
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	8	< 0.1	< 0.1	0.05
Nickel	mg/L	0.01	< 0.01	< 0.01	< 0.01	8	< 0.01	< 0.01	0.006
Selenium	mg/L	< 0.001	< 0.001	< 0.005	< 0.001	8	< 0.001	< 0.005	0.0013
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	8	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	8	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0269	0.0125	0.002	0.0092	9	0.002	0.0269	0.0124
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	8	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	8	< 0.01	< 0.01	0.005
Metals-Suspended									
Thorium 232	mg/L	< 0.001	< 0.001	0.013	< 0.001	11	< 0.001	0.013	0.0016
Uranium	mg/L	0.0009	< 0.0003	0.0031	< 0.0003	11	< 0.0003	0.0031	0.0005
Metals-Total									
Aluminum	mg/L	0.3	0.5	99.3	4.3	8	< 0.1	99.3	13.13
Arsenic	mg/L	< 0.001	0.002	0.048	0.004	11	< 0.001	0.048	0.0058
Barium	mg/L	< 0.1	< 0.1	1.1	0.1	11	< 0.1	1.1	0.15
Boron	mg/L	0.2	0.3	0.3	0.4	11	0.2	0.5	0.27
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	11	< 0.005	< 0.005	0.003
Calcium	mg/L	295	381	132	362	8	53	506	233.8
Chromium	mg/L	< 0.05	< 0.05	0.19	< 0.05	11	< 0.05	0.19	0.04
Copper	mg/L	< 0.01	< 0.01	0.11	< 0.01	11	< 0.01	0.11	0.015
Iron	mg/L	0.44	0.52	137	3.02	11	0.05	137	13.041
Lead	mg/L	< 0.001	< 0.001	0.088	0.002	11	< 0.001	0.088	0.0086
Magnesium	mg/L	127	128	59.8	130	8	27.8	130	81.39
Manganese	mg/L	0.36	0.98	1.82	0.97	11	0.08	1.82	0.46
Mercury	mg/L	< 0.001	< 0.0001	< 0.0001	< 0.0001	11	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	11	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		BVC01				Summary Statistics			
Description		Beaver Creek Downstream							
Date Collected		3/9/2008	4/14/2008	5/26/2008	6/17/2008				
Lab ID		R08030091	R08040178	R08050356	R08060315				
Analyte	Units	Result	Result	Result	Result				
Nickel	mg/L	< 0.05	< 0.05	0.15	< 0.05	11	< 0.05	0.15	0.04
Potassium	mg/L	11.3	13	37.4	8.8	8	5.3	37.4	13.46
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	11	< 0.001	0.003	0.0012
Silica	mg/L	8.2	4.8	51.9	12.9	8	2.7	51.9	13.14
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	11	< 0.005	< 0.005	0.003
Sodium	mg/L	876	659	99	902	8	99	902	430.6
Thorium 232	mg/L	< 0.005	< 0.005	0.04	< 0.005	9	< 0.005	0.04	0.0067
Uranium	mg/L	0.0262	0.0127	0.0109	0.0113	11	0.004	0.0262	0.0121
Vanadium	mg/L	< 0.1	< 0.1	0.4	< 0.1	11	< 0.1	0.4	0.08
Zinc	mg/L	< 0.01	< 0.01	0.54	0.02	11	< 0.01	0.54	0.057
Metals- Dissolved Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	0.002	< 0.001	8	< 0.001	0.002	0.0007
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	0.003	0.001
Metals-Total-Speciated									
Chromium, Hexavalent	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	8	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	8	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	0.003	0.0009
Radionuclides- Dissolved									
Lead 210	pCi/L	NM	NM	-1 (9.6)*	NM	6	< 1	11	2.7
Polonium 210	pCi/L	NM	NM	0 (1)*	NM	6	< 1	2.6	1.13
Radium 226	pCi/L	-0 (0.2)*	0 (0.2)*	2	-0 (0.1)*	8	< 0.2	2	0.31
Thorium 230	pCi/L	0	0.3	0 (0.2)*	0 (0.2)*	9	< 0.2	0.3	0.1
Radionuclides-Suspended									
Lead 210	pCi/L	NM	NM	15 (70.7)*	NM	6	< 1	15.3	3.38
Polonium 210	pCi/L	NM	NM	3	NM	6	< 1	3	1.6
Radium 226	pCi/L	-1 (1.2)*	0 (0.8)*	3.1	-1 (1.1)*	9	< 0.2	3.1	0.26
Thorium 230	pCi/L	0.4	0.8	3.4	0 (0.2)*	9	< 0.2	3.4	0.66
Radionuclides-Total									
Gross Alpha	pCi/L	17.4	15.1	18.2	9 (17.1)*	11	5.9	65.8	17.95
Gross Beta	pCi/L	13 (18.4)*	-27 (18.1)*	12.7	-11 (19.8)*	11	-27.1	44.4	7.95
Gross Gamma	pCi/L	< 20	0 (20)*	0 (20)*	0 (20)*	8	< 20	1310	169
Data Quality									
A/C Balance (± 5)	%	3.65	-3.44	0.05	4.51	11	-4.61	4.51	-0.039
Anions	meq/L	59.4	63.4	9.42	59.9	11	9.42	95.3	45.42
Cations	meq/L	63.9	59.2	9.43	65.6	11	9.43	90.3	45.366
Solids, Total Dissolved Calculated	mg/L	4070	3840	609	3830	11	609	5860	2875.1
TDS Balance (0.80 - 1.20)	dec. %	1.04	0.99	1.01	1.04	11	0.96	1.14	1.04

Sampling interval: monthly

Missing samples and reasons: February 2008 - frozen solid

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		BVC04						
Description		Beaver Creek Upstream						
Date Collected		7/24/2007	8/20/2007	9/28/2007	10/17/2007	11/19/2007	12/11/2007	1/11/2008
Lab ID		R07070382	R07080273	R07100001	R07100295	R07110229	R07120148	R08010124
Analyte	Units	-002	-002	-001	-001	-003	-001	-003
		Result	Result	Result	Result	Result	Result	Result
Field Parameters								
Field Temperature	°C	NM	27.22	10.78	10.05	5.12	-0.04	-0.1
Field pH	s.u.	NM	8.82	7.6	8.46	8.18	7.86	7.74
Field Dissolved Oxygen	mg/L	NM	12.31	6.85	10.45	12.39	11.01	11.37
Field Conductivity	umhos/cm	NM	1450	4712	7157	5416	4055	3022
Field Turbidity	NTU	NM	79.5	NM	12.6	9.3	2.9	16.8
Bacteriological								
Bacteria, Fecal Coliform	CFU/100ml	110	350	12	62	< 2	10	4
Major Ions								
Alkalinity, Total as CaCO3	mg/L	80	106	110	166	176	190	220
Bicarbonate as HCO3	mg/L	98	129	134	202	215	232	268
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Calcium, Dissolved	mg/L	NM	NM	288	382	426	449	463
Chloride	mg/L	251	118	1310	1540	1040	601	255
Fluoride	mg/L	0.45	0.4	< 0.1	< 0.1	0.5	0.3	0.3
Magnesium, Dissolved	mg/L	NM	NM	171	210	140	101	124
Nitrogen, Ammonia as N	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	0.4	< 0.1	< 0.1	0.1	0.3	0.4
Potassium, Dissolved	mg/L	NM	NM	10	9	7	5	5
Silica, Dissolved	mg/L	NM	NM	1	2	9.1	11.9	14.1
Sodium, Dissolved	mg/L	NM	NM	1100	1160	736	415	224
Sulfate	mg/L	859	436	2520	2670	1920	1450	1450
Physical Properties								
Conductivity @ 25 C	umhos/cm	2660	1400	7030	7130	5460	4370	3310
pH	s.u.	7.72	8.48	8.23	7.94	7.97	7.88	7.8
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	NM	12	7.9	4.6	2.4
Solids, Suspended Sediment SSC @ 105 C	mg/L	111	156	86	5820	14	11	24
Solids, Total Dissolved TDS @ 180 C	mg/L	1800	910	5600	5800	4500	3500	3000
Solids, Total Suspended TSS @ 105 C	mg/L	100	160	47	16	16	10	25
Metals- Dissolved								
Aluminum	mg/L	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	NM	NM	0.001	< 0.001	0.001	< 0.001	< 0.001
Barium	mg/L	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	NM	NM	0.5	0.6	0.4	0.2	0.2
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	mg/L	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	NM	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	NM	NM	0.02	0.16	0.1	0.04	0.05
Mercury	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium	mg/L	NM	NM	0.003	< 0.001	0.004	0.002	0.003
Silver	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	NM	NM	0.014	0.023	0.0189	0.0114	0.0141
Vanadium	mg/L	NM	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals-Suspended								
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.0006	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Metals-Total								
Aluminum	mg/L	NM	NM	2	0.6	0.2	0.1	0.6
Arsenic	mg/L	0.003	0.003	0.002	< 0.001	0.001	< 0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.2	< 0.1	0.4	0.6	0.4	0.2	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium	mg/L	146	77.8	NM	NM	NM	NM	508
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	1.34	2.48	1.34	0.39	0.31	0.19	0.68
Lead	mg/L	0.002	0.003	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium	mg/L	47.7	24.8	NM	NM	NM	NM	125
Manganese	mg/L	0.51	0.41	0.1	0.18	0.1	0.05	0.12
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Powertech (USA) Inc. Surface Water Sampling ID:		BVC04						
Description		Beaver Creek Upstream						
Date Collected		7/24/2007	8/20/2007	9/28/2007	10/17/2007	11/19/2007	12/11/2007	1/11/2008
Lab ID		R07070382	R07080273	R07100001	R07100295	R07110229	R07120148	R08010124
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/L	10	10.1	NM	NM	NM	NM	5.4
Selenium	mg/L	0.002	0.002	< 0.001	< 0.001	0.004	0.002	0.003
Silica	mg/L	7.9	15.5	NM	NM	NM	NM	16.6
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	404	194	NM	NM	NM	NM	259
Thorium 232	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.0073	0.003	0.0137	0.0239	0.0177	0.0135	0.0144
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals- Dissolved Speciated								
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	0.004	0.002	0.003
Metals-Total-Speciated								
Chromium, Hexavalent	mg/L	NM	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium, Trivalent	mg/L	NM	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	< 0.001	< 0.001	0.004	0.002	0.003
Radionuclides- Dissolved								
Lead 210	pCi/L	NM	NM	< 1	< 1	< 1	26	2.2
Polonium 210	pCi/L	NM	NM	< 1	3	1.3	< 1	1.8
Radium 226	pCi/L	NM	NM	< 0.2	0.5	< 0.2	< 0.2	< 0.2
Thorium 230	pCi/L	NM	NM	1.7	< 0.2	< 0.2	< 0.2	< 0.2
Radionuclides-Suspended								
Lead 210	pCi/L	NM	NM	< 2	< 1	< 1	8.6	< 1
Polonium 210	pCi/L	NM	NM	< 2	< 1	1.7	2.9	< 1
Radium 226	pCi/L	NM	NM	< 0.9	< 0.2	0.8	0.3	< 0.2
Thorium 230	pCi/L	NM	NM	< 2	< 0.2	< 0.2	< 0.2	< 0.2
Radionuclides-Total								
Gross Alpha	pCi/L	11.4	7	2.3	26.6	34.7	17.1	13.9
Gross Beta	pCi/L	13.9	15.4	< 2	14	48.1	11.7	7.2
Gross Gamma	pCi/L	NM	NM	< 20	< 20	1080	1100	< 20
Data Quality								
A/C Balance (± 5)	%	4.79	0.739	-3.55	-4.07	-1.84	-2.15	1.72
Anions	meq/L	26.6	14.6	91.7	94.5	67.4	51	41.7
Cations	meq/L	29.3	14.8	85.4	87.1	65	48.8	43.2
Solids, Total Dissolved Calculated	mg/L	1770	945	5640	5700	4110	3140	2650
TDS Balance (0.80 - 1.20)	dec. %	1.03	0.97	0.99	1.01	1.09	1.11	1.12

Powertech (USA) Inc. Surface Water Sampling ID:		BVC04				Summary Statistics			
Description		Beaver Creek Upstream							
Date Collected		3/9/2008	4/14/2008	5/26/2008	6/17/2008				
Lab ID		R08030091	R08040178	R08050356	R08060315				
		-002	-003	-004	-004				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Field Temperature	°C	-0.08	16.94	13.06	25.14	10	-0.1	27.22	10.809
Field pH	s.u.	8.12	8.27	8.09	7.52	10	7.52	8.82	8.066
Field Dissolved Oxygen	mg/L	13.74	12.21	6.54	9.55	10	6.54	13.74	10.642
Field Conductivity	umhos/cm	2015	7186	733	4915	10	733	7186	4066.1
Field Turbidity	NTU	226	14.3	1730	33.8	9	2.9	1730	236.13
Bacteriological									
Bacteria, Fecal Coliform	CFU/100ml	32	< 2	1200	44	11	< 2	1200	166
Major Ions									
Alkalinity, Total as CaCO3	mg/L	118	186	84	148	11	80	220	140
Bicarbonate as HCO3	mg/L	144	227	102	180	11	98	268	175.5
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	11	< 5	< 5	3
Calcium, Dissolved	mg/L	225	455	51.5	300	9	51.5	463	337.7
Chloride	mg/L	339	1730	9	739	11	9	1730	721.1
Fluoride	mg/L	0.4	< 0.1	0.6	0.7	11	< 0.1	0.7	0.35
Magnesium, Dissolved	mg/L	53.3	177	13.2	105	9	13.2	210	121.61
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	8	< 0.1	< 0.1	0.015
Nitrogen, Nitrate as N	mg/L	0.5	< 0.1	0.3	< 0.1	11	< 0.1	0.5	0.2
Potassium, Dissolved	mg/L	5	6	6	9	9	5	10	6.9
Silica, Dissolved	mg/L	7.4	2.6	2.8	4.1	9	1	14.1	6.11
Sodium, Dissolved	mg/L	280	995	89	743	9	89	1160	638
Sulfate	mg/L	681	1860	286	1090	11	286	2670	1383.8
Physical Properties									
Conductivity @ 25 C	umhos/cm	2640	7540	784	514	11	514	7540	3894.4
pH	s.u.	8.09	7.97	7.71	8.14	11	7.71	8.48	7.994
Sodium Adsorption Ratio (SAR)	unitless	4.3	10	2.8	9.4	8	2.4	12	6.68
Solids, Suspended Sediment SSC @ 105 C	mg/L	323	40	2700	51	11	11	5820	848.7
Solids, Total Dissolved TDS @ 180 C	mg/L	1800	5100	520	3500	11	520	5800	3275
Solids, Total Suspended TSS @ 105 C	mg/L	270	32	2200	55	11	10	2200	266
Metals- Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	9	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	0.001	< 0.001	< 0.001	9	< 0.001	< 0.001	0.0007
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	9	< 0.1	< 0.1	0.05
Boron	mg/L	0.2	0.3	0.2	0.4	9	0.2	0.6	0.33
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	9	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	9	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	0.04	0.04	< 0.03	9	< 0.03	0.04	0.021
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	9	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.08	0.55	< 0.01	0.28	9	< 0.01	0.55	0.143
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	9	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	9	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	9	< 0.01	< 0.01	0.005
Selenium	mg/L	0.002	< 0.001	< 0.005	< 0.001	9	< 0.001	< 0.005	0.002
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0056	0.0165	0.0017	0.0078	9	0.0017	0.023	0.0126
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	9	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	9	< 0.01	< 0.01	0.005
Metals-Suspended									
Thorium 232	mg/L	0.004	< 0.001	0.009	< 0.001	11	< 0.001	0.009	0.002
Uranium	mg/L	0.0014	< 0.0003	0.0021	< 0.0003	11	< 0.0003	0.0021	0.0005
Metals-Total									
Aluminum	mg/L	9.9	0.7	61.3	3.2	9	0.1	61.3	8.73
Arsenic	mg/L	0.004	0.003	0.023	0.004	11	< 0.001	0.023	0.0041
Barium	mg/L	< 0.1	< 0.1	0.5	0.1	11	< 0.1	0.5	0.1
Boron	mg/L	0.1	0.4	0.2	0.4	11	< 0.1	0.6	0.29
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	11	< 0.005	< 0.005	0.003
Calcium	mg/L	217	401	81.3	309	7	77.8	508	248.59
Chromium	mg/L	< 0.05	< 0.05	0.08	< 0.05	11	< 0.05	0.08	0.03
Copper	mg/L	< 0.01	< 0.01	0.07	< 0.01	11	< 0.01	0.07	0.011
Iron	mg/L	8.65	0.74	63.1	2.69	11	0.19	63.1	7.446
Lead	mg/L	0.007	< 0.001	0.047	0.002	11	< 0.001	0.047	0.0059
Magnesium	mg/L	53.5	161	32.8	111	7	24.8	161	79.4
Manganese	mg/L	0.28	0.72	1.34	0.44	11	0.05	1.34	0.386
Mercury	mg/L	< 0.001	< 0.0001	< 0.0001	< 0.0001	11	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	11	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		BVC04				Summary Statistics			
Description		Beaver Creek Upstream							
Date Collected		3/9/2008	4/14/2008	5/26/2008	6/17/2008				
Lab ID		R08030091 -002	R08040178 -003	R08050356 -004	R08060315 -004				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	< 0.05	< 0.05	0.08	< 0.05	11	< 0.05	0.08	0.03
Potassium	mg/L	6.6	14.4	20.4	9.7	7	5.4	20.4	10.94
Selenium	mg/L	0.002	< 0.001	< 0.001	< 0.001	11	< 0.001	0.004	0.0016
Silica	mg/L	54.5	6	77.6	12.9	7	6	77.6	27.29
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	11	< 0.005	< 0.005	0.003
Sodium	mg/L	273	1070	96	770	7	96	1070	438
Thorium 232	mg/L	0.005	< 0.005	0.021	< 0.005	9	< 0.005	0.021	0.0048
Uranium	mg/L	0.0061	0.0169	0.0069	0.0097	11	0.003	0.0239	0.0121
Vanadium	mg/L	< 0.1	< 0.1	0.2	< 0.1	11	< 0.1	0.2	0.06
Zinc	mg/L	0.06	< 0.01	0.27	0.02	11	< 0.01	0.27	0.036
Metals- Dissolved Speciated									
Selenium-IV	mg/L	0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	< 0.001	0.0006
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	8	< 0.001	0.004	0.0014
Metals-Total-Speciated									
Chromium, Hexavalent	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	9	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	0.001	< 0.001	< 0.001	< 0.001	9	< 0.001	< 0.001	0.0006
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	9	< 0.001	0.004	0.0013
Radionuclides- Dissolved									
Lead 210	pCi/L	NM	NM	0.9 (9.6)*	NM	6	< 1	26	5.1
Polonium 210	pCi/L	NM	NM	0.1 (1)*	NM	6	< 1	3	1.2
Radium 226	pCi/L	0.1 (0.2)*	0.1 (0.2)*	-0.1 (0.3)*	0.1 (0.1)*	8	< 0.2	0.5	0.12
Thorium 230	pCi/L	0.2	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	9	< 0.2	1.7	0.27
Radionuclides-Suspended									
Lead 210	pCi/L	NM	NM	-30 (70.7)*	NM	6	< 1	8.6	-3.15
Polonium 210	pCi/L	NM	NM	3.7	NM	6	< 1	3.7	1.72
Radium 226	pCi/L	2.5 (2.8)*	0.2 (0.8)*	2.2	-0.7 (0.9)*	9	< 0.2	2.5	0.66
Thorium 230	pCi/L	0.3 (0.2)*	0.1 (-5)*	2.1	0.3	9	< 0.2	2.1	0.47
Radionuclides-Total									
Gross Alpha	pCi/L	6.7 (8.2)*	23.4	12.5	3.9 (14.8)*	11	2.3	34.7	14.5
Gross Beta	pCi/L	-2 (7.1)*	2.8 (18.8)*	12.9	-12 (15.1)*	11	< 2	48.1	10.24
Gross Gamma	pCi/L	< 20	0 (20)*	0 (20)*	0 (20)*	9	< 20	1100	247
Data Quality									
A/C Balance (± 5)	%	3.3	-6.02	-1.82	9.39	11	-6.02	9.39	0.044
Anions	meq/L	26.1	91.1	7.96	46.6	11	7.96	94.5	50.842
Cations	meq/L	27.9	80.8	7.68	56.2	11	7.68	87.1	49.653
Solids, Total Dissolved Calculated	mg/L	1680	5340	516	3090	11	516	5700	3143.7
TDS Balance (0.80 - 1.20)	dec. %	1.06	0.96	1.02	1.12	11	0.96	1.12	1.044

Sampling Interval: Monthly

Missing Samples and Reasons: February 2008 - Frozen Solid

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		CHR01					
Description		Cheyenne River Upstream					
Date Collected		7/31/2007	9/5/2007	9/26/2007	10/17/2007	11/19/2007	3/9/2008
Lab ID		R07080019-001	R07090098-001	R07090368-001	R07100295-002	R07110229-001	R08030091-004
Analyte	Units	Result	Result	Result	Result	Result	Result
Field Parameters							
Field Temperature	°C	NM	26.35	16	13.11	5.68	7.28
Field pH	s.u.	NM	8.44	8.02	8.02	7.47	8.11
Field Dissolved Oxygen	mg/L	NM	13.08	10.48	5.17	3.74	12.84
Field Conductivity	umhos/cm	NM	4085	3895	6929	7847	3990
Field Turbidity	NTU	NM	19	1	9.9	5.8	7.4
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	8	160	76	4	< 2	20
Major Ions							
Alkalinity, Total as CaCO3	mg/L	310	196	248	320	322	92
Bicarbonate as HCO3	mg/L	378	234	302	390	393	112
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5
Calcium, Dissolved	mg/L	NM	NM	NM	398	411	155
Chloride	mg/L	125	74	138	166	176	249
Fluoride	mg/L	0.3	0.4	0.1	0.3	0.3	0.4
Magnesium, Dissolved	mg/L	NM	NM	NM	189	201	36
Nitrogen, Ammonia as N	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Potassium, Dissolved	mg/L	NM	NM	NM	15	15	5
Silica, Dissolved	mg/L	NM	NM	NM	13	12.4	5.6
Sodium, Dissolved	mg/L	NM	NM	NM	1360	1530	189
Sulfate	mg/L	3550	2010	3970	4060	4520	572
Physical Properties							
Conductivity @ 25 C	umhos/cm	6580	3990	6450	6940	7530	1860
pH	s.u.	7.83	8.3	8.2	7.57	7.63	7.78
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	NM	14	15	3.5
Solids, Suspended Sediment SSC @ 105 C	mg/L	53	49	34	6170	10	424
Solids, Total Dissolved TDS @ 180 C	mg/L	5900	3200	5900	6500	7100	1300
Solids, Total Suspended TSS @ 105 C	mg/L	54	54	35	12	8	400
Metals- Dissolved							
Aluminum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	NM	NM	NM	0.001	< 0.001	< 0.001
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Boron	mg/L	NM	NM	NM	0.3	0.2	0.1
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	NM	NM	0.03	0.06	< 0.03
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Manganese	mg/L	NM	NM	NM	2.75	3.01	0.05
Mercury	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Uranium	mg/L	NM	NM	0.0149	0.0308	0.031	0.0034
Vanadium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Zinc	mg/L	NM	NM	NM	< 0.01	0.02	< 0.01
Metals-Suspended							
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.005
Uranium	mg/L	< 0.0003	0.0012	< 0.0003	< 0.0003	0.0006	0.002
Metals-Total							
Aluminum	mg/L	NM	NM	NM	0.6	0.1	8.4
Arsenic	mg/L	0.001	0.002	0.002	0.002	< 0.001	0.004
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.4	0.6	0.34	0.2	0.2	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium	mg/L	366	186	344	NM	NM	160
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Iron	mg/L	0.15	0.66	1.1	0.95	0.61	9.12
Lead	mg/L	< 0.001	0.001	< 0.001	< 0.001	< 0.001	0.008
Magnesium	mg/L	188	92	172	NM	NM	38.4
Manganese	mg/L	1.13	0.2	0.25	2.94	2.66	0.33
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Powertech (USA) Inc. Surface Water Sampling ID:		CHR01					
Description		Cheyenne River Upstream					
Date Collected		7/31/2007	9/5/2007	9/26/2007	10/17/2007	11/19/2007	3/9/2008
Lab ID		R07080019 -001	R07090098 -001	R07090368 -001	R07100295 -002	R07110229 -001	R08030091 -004
Analyte	Units	Result	Result	Result	Result	Result	Result
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/L	19	15	17	NM	NM	6.7
Selenium	mg/L	0.002	0.002	0.003	< 0.001	< 0.001	0.001
Silica	mg/L	7.2	7.8	8.6	NM	NM	45.4
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	1140	657	1180	NM	NM	191
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.0223	0.0142	0.015	0.032	0.0316	0.0043
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.05
Metals- Dissolved Speciated							
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Chromium, Trivalent	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	NM	< 1	3.2	< 1	NM
Polonium 210	pCi/L	NM	NM	< 1	1.6	1.7	NM
Radium 226	pCi/L	NM	NM	< 0.2	0.5	0.6	0.2
Thorium 230	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	0.1 (0.2)*
Radionuclides-Suspended							
Lead 210	pCi/L	NM	NM	< 1	< 1	< 1	NM
Polonium 210	pCi/L	NM	NM	< 1	< 1	2.3	NM
Radium 226	pCi/L	NM	NM	< 0.2	< 0.2	0.6	1.2 (1.3)*
Thorium 230	pCi/L	NM	NM	< 0.2	0.9	3.8	0.8
Radionuclides-Total							
Gross Alpha	pCi/L	16.9	15.9	33.8	34.2	27	5.1 (6)*
Gross Beta	pCi/L	21.9	18.6	21.9	21.3	< 2	4.8 (5.6)*
Gross Gamma	pCi/L	NM	NM	NM	1070	< 20	< 20
Data Quality							
A/C Balance (± 5)	%	0.0317	-2.1	-4.68	-0.301	-0.593	-4.49
Anions	meq/L	83.7	47.9	91.5	95.6	105	20.8
Cations	meq/L	83.8	45.9	83.3	95	104	19
Solids, Total Dissolved Calculated	mg/L	5590	3160	5970	6370	7040	1280
TDS Balance (0.80 - 1.20)	dec. %	1.06	1.02	0.98	1.03	1	0.98

Powertech (USA) Inc. Surface Water Sampling ID:		CHR01			Summary Statistics			
Description		Cheyenne River Upstream						
Date Collected		4/16/2008	5/26/2008	6/17/2008				
Lab ID		R08040220 -001	R08050356 -003	R08060315 -003				
Analyte	Units	Result	Result	Result	Minimum	Maximum	Mean**	
Field Parameters								
Field Temperature	°C	14.97	13.35	27	8	5.68	27	15.468
Field pH	s.u.	8.32	8.17	8.27	8	7.47	8.44	8.103
Field Dissolved Oxygen	mg/L	8.13	7.77	7.85	8	3.74	13.08	8.633
Field Conductivity	umhos/cm	6180	350	2897	8	350	7847	4521.6
Field Turbidity	NTU	1.5	1798	73.4	8	1	1798	239.5
Bacteriological								
Bacteria, Fecal Coliform	CFU/100ml	< 2	2100	16	9	< 2	2100	265.1
Major Ions								
Alkalinity, Total as CaCO3	mg/L	248	80	272	9	80	322	232
Bicarbonate as HCO3	mg/L	302	98	332	9	98	393	282.3
Carbonate as CO3	mg/L	< 5	< 5	< 5	9	< 5	< 5	3
Calcium, Dissolved	mg/L	370	29.7	161	6	29.7	411	254.12
Chloride	mg/L	156	2	78	9	2	249	129.3
Fluoride	mg/L	< 0.1	0.4	0.7	9	< 0.1	0.7	0.33
Magnesium, Dissolved	mg/L	175	9	65.8	6	9	201	113
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	6	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	0.4	< 0.1	9	< 0.1	0.4	0.13
Potassium, Dissolved	mg/L	26	6	12	6	5	26	13.2
Silica, Dissolved	mg/L	6.4	2.6	6.1	6	2.6	13	7.68
Sodium, Dissolved	mg/L	1140	28	471	6	28	1530	786.3
Sulfate	mg/L	3690	86	1090	9	86	4520	2616.4
Physical Properties								
Conductivity @ 25 C	umhos/cm	6600	367	2770	9	367	7530	4787.4
pH	s.u.	8.03	7.81	8.29	9	7.57	8.3	7.938
Sodium Adsorption Ratio (SAR)	unitless	12	1.2	7.9	6	1.2	15	8.93
Solids, Suspended Sediment SSC @ 105 C	mg/L	5	4840	102	9	5	6170	1298.6
Solids, Total Dissolved TDS @ 180 C	mg/L	5700	400	2200	9	400	7100	4240
Solids, Total Suspended TSS @ 105 C	mg/L	8	4400	110	9	8	4400	564.6
Metals- Dissolved								
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	6	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	< 0.001	0.001	6	< 0.001	< 0.001	0.0008
Barium	mg/L	< 0.1	< 0.1	< 0.1	6	< 0.1	< 0.1	0.05
Boron	mg/L	0.3	0.1	0.2	6	0.1	0.3	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	6	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	< 0.01	< 0.01	6	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	< 0.01	< 0.01	6	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	0.05	< 0.03	6	< 0.03	0.06	0.031
Lead	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.68	< 0.01	0.04	6	< 0.01	3.01	1.089
Mercury	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	6	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.01	< 0.01	< 0.01	6	< 0.01	< 0.01	0.005
Selenium	mg/L	< 0.001	< 0.005	< 0.001	6	< 0.001	< 0.005	0.0008
Silver	mg/L	< 0.005	< 0.005	< 0.005	6	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	6	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0324	0.0024	0.0177	7	0.0024	0.0324	0.0189
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	6	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	< 0.01	6	< 0.01	0.02	0.008
Metals-Suspended								
Thorium 232	mg/L	< 0.001	0.017	< 0.001	9	< 0.001	0.017	0.0028
Uranium	mg/L	0.0006	0.0038	< 0.0003	9	< 0.0003	0.0038	0.001
Metals-Total								
Aluminum	mg/L	< 0.1	94.7	5.1	6	< 0.1	94.7	18.16
Arsenic	mg/L	0.001	0.024	0.003	9	< 0.001	0.024	0.0044
Barium	mg/L	< 0.1	0.8	0.1	9	< 0.1	0.8	0.14
Boron	mg/L	0.2	< 0.1	0.2	9	< 0.1	0.6	0.25
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Calcium	mg/L	366	62	175	7	62	366	237
Chromium	mg/L	< 0.05	0.19	< 0.05	9	< 0.05	0.19	0.043
Copper	mg/L	< 0.01	0.1	< 0.01	9	< 0.01	0.1	0.016
Iron	mg/L	0.49	88.3	2.99	9	0.15	88.3	11.597
Lead	mg/L	< 0.001	0.118	0.003	9	< 0.001	0.118	0.0147
Magnesium	mg/L	171	37.3	70.5	7	37.3	188	109.89
Manganese	mg/L	0.68	1.19	0.38	9	0.2	2.94	1.084
Mercury	mg/L	< 0.0001	< 0.0001	< 0.0001	9	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	9	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		CHR01			Summary Statistics			
Description		Cheyenne River Upstream						
Date Collected		4/16/2008	5/26/2008	6/17/2008				
Lab ID		R08040220 -001	R08050356 -003	R08060315 -003				
Analyte	Units	Result	Result	Result		Minimum	Maximum	Mean**
Nickel	mg/L	< 0.05	0.08	< 0.05	9	< 0.05	0.08	0.031
Potassium	mg/L	22.1	27.4	13.2	7	6.7	27.4	17.2
Selenium	mg/L	< 0.001	< 0.001	< 0.001	9	< 0.001	0.003	0.0012
Silica	mg/L	6.3	63.5	18.1	7	6.3	63.5	22.41
Silver	mg/L	< 0.005	< 0.005	< 0.005	9	< 0.005	< 0.005	0.003
Sodium	mg/L	1140	30	509	7	30	1180	692
Thorium 232	mg/L	< 0.005	0.046	< 0.005	8	< 0.005	0.046	0.0079
Uranium	mg/L	0.0365	0.0119	0.0214	9	0.0043	0.0365	0.021
Vanadium	mg/L	< 0.1	0.3	< 0.1	9	< 0.1	0.3	0.08
Zinc	mg/L	< 0.01	0.46	0.02	9	< 0.01	0.46	0.064
Metals- Dissolved Speciated								
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Metals-Total-Speciated								
Chromium, Hexavalent	mg/L	< 0.005	< 0.005	< 0.005	6	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	6	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	6	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved								
Lead 210	pCi/L	NM	0.5 (9.6)*	NM	4	< 1	3.2	1.18
Polonium 210	pCi/L	NM	0.5 (1)*	NM	4	< 1	1.7	1.08
Radium 226	pCi/L	0.3	0.1 (0.3)*	0.2	6	< 0.2	0.6	0.29
Thorium 230	pCi/L	0.3	0.1 (0.2)*	0 (0.2)*	7	< 0.2	0.3	0.11
Radionuclides-Suspended								
Lead 210	pCi/L	NM	4.4 (70.7)*	NM	4	< 1	4.4	1.48
Polonium 210	pCi/L	NM	4.1	NM	4	< 1	4.1	1.85
Radium 226	pCi/L	-0.1 (0.9)*	4	-0.9 (1.1)*	7	< 0.2	4	0.71
Thorium 230	pCi/L	0.2 (-5)*	2	0 (0.2)*	7	< 0.2	3.8	1.1
Radionuclides-Total								
Gross Alpha	pCi/L	5.7 (24.4)*	29.1	35.3	9	5.1	35.3	22.56
Gross Beta	pCi/L	-9.2 (18.5)*	22.1	15.5	9	< 2	22.1	13.1
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	6	< 20	1070	182
Data Quality								
A/C Balance (± 5)	%	-1.81	1.47	6.05	9	-4.68	6.05	-0.714
Anions	meq/L	86.1	3.51	30.3	9	3.51	105	62.712
Cations	meq/L	83.1	3.61	34.2	9	3.61	104	61.323
Solids, Total Dissolved Calculated	mg/L	5720	219	2060	9	219	7040	4156.6
TDS Balance (0.80 - 1.20)	dec. %	0.99	1.84	1.07	9	0.98	1.84	1.108

Sampling Interval: Monthly
Missing Samples and Reasons: December 2007 and January 2008 - Frozen Solid;
February 2008 - Dry
NM - not measured
* Value shown detected below reporting limit. Reporting limit provided in parenthesis.
** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05					
Description		Cheyenne River Downstream					
Date Collected		7/31/2007	9/5/2007	9/26/2007	10/17/2007	11/19/2007	12/11/2007
Lab ID		R07080019-002	R07090098-003	R07090368-004	R07100295-004	R07110229-004	R07120148-004
Analyte	Units	Result	Result	Result	Result	Result	Result
Field Parameters							
Field Temperature	°C	NM	25.6	18.83	14.47	6.23	-0.07
Field pH	s.u.	NM	8.16	8.01	8.12	8.16	7.95
Field Dissolved Oxygen	mg/L	NM	12.2	NM	10.08	11.03	11.14
Field Conductivity	umhos/cm	NM	4570	4002	6986	6384	3888
Field Turbidity	NTU	NM	1	2	8.3	13.3	3.8
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	180	290	8	200	26	6
Major Ions							
Alkalinity, Total as CaCO3	mg/L	200	214	324	352	180	182
Bicarbonate as HCO3	mg/L	244	261	395	429	219	222
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5
Calcium, Dissolved	mg/L	NM	NM	NM	492	389	441
Chloride	mg/L	386	344	221	269	912	509
Fluoride	mg/L	0.5	0.4	0.2	0.3	0.4	0.4
Magnesium, Dissolved	mg/L	NM	NM	NM	380	164	109
Nitrogen, Ammonia as N	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Potassium, Dissolved	mg/L	NM	NM	NM	18	12	6
Silica, Dissolved	mg/L	NM	NM	NM	10	4.4	10.4
Sodium, Dissolved	mg/L	NM	NM	NM	1020	974	360
Sulfate	mg/L	2030	2160	4160	4060	2340	1570
Physical Properties							
Conductivity @ 25 C	umhos/cm	4980	4630	6590	6910	6090	4080
pH	s.u.	7.98	8.08	8.09	7.74	7.95	7.9
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	NM	8.4	10	4
Solids, Suspended Sediment SSC @ 105 C	mg/L	7	6	18	7040	17	8
Solids, Total Dissolved TDS @ 180 C	mg/L	4100	3700	6500	7200	5200	3300
Solids, Total Suspended TSS @ 105 C	mg/L	14	6	23	8	16	7
Metals- Dissolved							
Aluminum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Boron	mg/L	NM	NM	NM	0.4	0.4	0.2
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	NM	NM	0.15	< 0.03	< 0.03
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Manganese	mg/L	NM	NM	NM	1.53	0.16	0.07
Mercury	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	NM	NM	< 0.01	< 0.01	0.01
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	0.002
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Uranium	mg/L	NM	NM	0.0346	0.0368	0.0151	0.0125
Vanadium	mg/L	NM	NM	NM	< 0.1	< 0.1	< 0.1
Zinc	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Metals-Suspended							
Thorium 232	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 0.0003	0.0003	< 0.0003	< 0.0003	< 0.0003	0.0004
Metals-Total							
Aluminum	mg/L	NM	NM	NM	0.2	0.1	< 0.1
Arsenic	mg/L	0.001	0.001	0.001	0.001	0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.4	0.54	0.39	0.3	0.3	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium	mg/L	311	270	422	NM	NM	NM
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.09	0.25	0.39	0.84	0.24	0.13
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium	mg/L	168	151	330	NM	NM	NM
Manganese	mg/L	0.12	0.48	0.58	1.69	0.23	0.1
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05					
Description		Cheyenne River Downstream					
Date Collected		7/31/2007	9/5/2007	9/26/2007	10/17/2007	11/19/2007	12/11/2007
Lab ID		R07080019-002	R07090098-003	R07090368-004	R07100295-004	R07110229-004	R07120148-004
Analyte	Units	Result	Result	Result	Result	Result	Result
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/L	13.3	14	19	NM	NM	NM
Selenium	mg/L	0.001	0.002	0.003	< 0.001	< 0.001	0.001
Silica	mg/L	7.4	7.8	11	NM	NM	NM
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	678	652	897	NM	NM	NM
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.011	0.0136	0.0348	0.0378	0.0143	0.0152
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Metals- Dissolved Speciated							
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	0.002
Metals-Total-Speciated							
Chromium, Hexavalent	mg/L	NM	NM	NM	< 0.005	< 0.005	< 0.005
Chromium, Trivalent	mg/L	NM	NM	NM	< 0.01	< 0.01	< 0.01
Selenium-IV	mg/L	NM	NM	NM	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	NM	NM	NM	< 0.001	< 0.001	0.001
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	NM	< 1	6.6	< 1	5.9
Polonium 210	pCi/L	NM	NM	< 1	< 1	1.5	2.4
Radium 226	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	< 0.2
Thorium 230	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	< 0.2
Radionuclides-Suspended							
Lead 210	pCi/L	NM	NM	< 1	3	< 1	< 1
Polonium 210	pCi/L	NM	NM	< 1	< 1	1.3	< 1
Radium 226	pCi/L	NM	NM	< 0.2	< 0.2	< 0.2	< 0.2
Thorium 230	pCi/L	NM	NM	< 0.2	0.6	< 0.2	< 0.2
Radionuclides-Total							
Gross Alpha	pCi/L	16.7	9.7	25.6	23.2	16.8	24.9
Gross Beta	pCi/L	18.7	< 2	9.8	11.1	38	12.5
Gross Gamma	pCi/L	NM	NM	NM	1140	967	< 20
Data Quality							
A/C Balance (± 5)	%	1.77	-3.85	-0.328	0.765	-1.58	-3.9
Anions	meq/L	57.1	59	88.4	99.1	78	50.6
Cations	meq/L	59.2	54.6	87.8	101	75.6	46.8
Solids, Total Dissolved Calculated	mg/L	3710	3730	5720	6450	4900	3100
TDS Balance (0.80 - 1.20)	dec. %	1.1	1	1.13	1.11	1.06	1.07

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05					
Description		Cheyenne River Downstream					
Date Collected		1/11/2008	2/12/2008	3/9/2008	4/14/2008	5/26/2008	6/17/2008
Lab ID		R08010124 -001	R08020131 -001	R08030091 -001	R08040178 -001	R08050356 -001	R08060315 -001
Analyte	Units	Result	Result	Result	Result	Result	Result
Field Parameters							
Field Temperature	°C	-0.09	0.23	-0.008	12.12	13.3	23.38
Field pH	s.u.	7.65	7.42	8.24	8.1	8.19	8.24
Field Dissolved Oxygen	mg/L	9.22	NM	12.92	9.92	7.69	7.63
Field Conductivity	umhos/cm	3058	3353	1118	4905	510	3721
Field Turbidity	NTU	2	12.3	177	12.5	1790	59.3
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	2	< 2	32	< 2	3500	28
Major Ions							
Alkalinity, Total as CaCO3	mg/L	234	246	92	164	90	224
Bicarbonate as HCO3	mg/L	285	300	112	200	110	273
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5
Calcium, Dissolved	mg/L	525	496	152	407	34.3	234
Chloride	mg/L	258	250	232	780	17	337
Fluoride	mg/L	0.4	0.5	0.4	< 0.1	0.4	0.5
Magnesium, Dissolved	mg/L	136	113	34.2	127	10.1	84.9
Nitrogen, Ammonia as N	mg/L	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	0.4	0.6	0.5	< 0.1	0.4	< 0.1
Potassium, Dissolved	mg/L	7	5	6	8	6	10
Silica, Dissolved	mg/L	14.1	14	5.6	3.4	2.9	4.7
Sodium, Dissolved	mg/L	245	200	197	572	54	564
Sulfate	mg/L	1610	1730	463	1540	180	1180
Physical Properties							
Conductivity @ 25 C	umhos/cm	3510	3320	1810	5150	537	3570
pH	s.u.	7.82	7.78	7.67	8.1	7.78	8.3
Sodium Adsorption Ratio (SAR)	unitless	2.5	2.1	3.8	6.3	2.1	8
Solids, Suspended Sediment SSC @ 105 C	mg/L	< 5	11	197	15	4840	91
Solids, Total Dissolved TDS @ 180 C	mg/L	3200	2900	1200	3700	340	2800
Solids, Total Suspended TSS @ 105 C	mg/L	< 5	9	220	19	4900	95
Metals- Dissolved							
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.3	0.2	0.1	0.2	< 0.1	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.07	0.12	0.04	0.59	< 0.01	0.16
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01
Selenium	mg/L	0.003	0.002	0.002	< 0.001	< 0.005	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.015	0.0143	0.0039	0.0134	0.0028	0.0139
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals-Suspended							
Thorium 232	mg/L	< 0.001	< 0.001	0.003	< 0.001	0.035	< 0.001
Uranium	mg/L	< 0.0003	< 0.0003	0.0036	0.0005	0.0067	< 0.0003
Metals-Total							
Aluminum	mg/L	< 0.1	< 0.1	8.8	0.4	170	5.3
Arsenic	mg/L	< 0.001	< 0.001	0.003	0.002	0.029	0.004
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.9	0.1
Boron	mg/L	0.2	0.2	0.1	0.2	0.1	0.3
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium	mg/L	515	526	148	430	70.8	254
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.19	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.1	< 0.01
Iron	mg/L	0.06	0.1	6.92	0.36	108	3.41
Lead	mg/L	< 0.001	< 0.001	0.006	< 0.001	0.11	0.002
Magnesium	mg/L	132	115	35.3	138	44.8	92.4
Manganese	mg/L	0.13	0.12	0.21	0.73	1.39	0.53
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.0006	< 0.0001	< 0.0001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05					
Description		Cheyenne River Downstream					
Date Collected		1/11/2008	2/12/2008	3/9/2008	4/14/2008	5/26/2008	6/17/2008
Lab ID		R08010124 -001	R08020131 -001	R08030091 -001	R08040178 -001	R08050356 -001	R08060315 -001
Analyte	Units	Result	Result	Result	Result	Result	Result
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.1	< 0.05
Potassium	mg/L	6.2	5.1	6.9	8.4	31.5	11.7
Selenium	mg/L	0.003	0.003	0.002	< 0.001	< 0.001	< 0.001
Silica	mg/L	13.5	16.6	48.3	5.4	56.4	17.6
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/L	248	196	196	634	58	601
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	0.046	< 0.005
Uranium	mg/L	0.0158	0.0136	0.0043	0.0141	0.0122	0.0173
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1
Zinc	mg/L	< 0.01	< 0.01	0.03	< 0.01	0.47	0.02
Metals- Dissolved Speciated							
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	0.009	< 0.005
Chromium, Trivalent	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	0.003	0.002	0.002	< 0.001	< 0.001	< 0.001
Radionuclides- Dissolved							
Lead 210	pCi/L	< 1	NM	NM	NM	0.7 (9.6)*	NM
Polonium 210	pCi/L	< 1	NM	NM	NM	-0.3 (1)*	NM
Radium 226	pCi/L	< 0.2	< 0.2	0.1 (0.2)*	0.1 (0.2)*	1.4	0.2
Thorium 230	pCi/L	< 0.2	0.2	0.1 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*
Radionuclides-Suspended							
Lead 210	pCi/L	22	NM	NM	NM	11 (17.7)*	NM
Polonium 210	pCi/L	< 1	NM	NM	NM	3.8	NM
Radium 226	pCi/L	< 0.2	< 0.2	1.8	0.3 (0.8)*	3.8	-0.7 (1.1)*
Thorium 230	pCi/L	< 0.2	0.3	1.4	0.1 (-5)*	2.2	-0.1 (0.2)*
Radionuclides-Total							
Gross Alpha	pCi/L	19.3	15.7	4 (5.7)*	19.8	29.8	29.9
Gross Beta	pCi/L	10.8	7.6	4.8 (5.6)*	10 (13.9)*	22.4	-1.7 (10.2)*
Gross Gamma	pCi/L	< 20	< 20	< 20	0 (20)*	40.1	0 (20)*
Data Quality							
A/C Balance (± 5)	%	2.85	-5.77	2.67	-1.29	-9.14	5.94
Anions	meq/L	45.6	48.1	18.1	57.4	6.07	38.6
Cations	meq/L	48.2	42.9	19.1	55.9	5.05	43.5
Solids, Total Dissolved Calculated	mg/L	2920	2950	1160	3540	365	2560
TDS Balance (0.80 - 1.20)	dec. %	1.1	1	1.04	1.06	0.94	1.07

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05			
Description		Summary Statistics			
Date Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Field Parameters					
Field Temperature	°C	11	-0.09	25.6	10.363
Field pH	s.u.	11	7.42	8.24	8.022
Field Dissolved Oxygen	mg/L	9	7.63	12.92	10.203
Field Conductivity	umhos/cm	11	510	6986	3863.2
Field Turbidity	NTU	11	1	1790	189.2
Bacteriological					
Bacteria, Fecal Coliform	CFU/100ml	12	< 2	3500	356.2
Major Ions					
Alkalinity, Total as CaCO3	mg/L	12	90	352	208.5
Bicarbonate as HCO3	mg/L	12	110	429	254.2
Carbonate as CO3	mg/L	12	< 5	< 5	3
Calcium, Dissolved	mg/L	9	34.3	525	352.26
Chloride	mg/L	12	17	912	376.3
Fluoride	mg/L	12	< 0.1	0.5	0.37
Magnesium, Dissolved	mg/L	9	10.1	380	128.69
Nitrogen, Ammonia as N	mg/L	9	< 0.1	< 0.1	0.06
Nitrogen, Nitrate as N	mg/L	12	< 0.1	0.6	0.21
Potassium, Dissolved	mg/L	9	5	18	8.7
Silica, Dissolved	mg/L	9	2.9	14.1	7.7
Sodium, Dissolved	mg/L	9	54	1020	465.1
Sulfate	mg/L	12	180	4160	1919
Physical Properties					
Conductivity @ 25 C	umhos/cm	12	537	6910	4264.8
pH	s.u.	12	7.67	8.3	7.933
Sodium Adsorption Ratio (SAR)	unitless	9	2.1	10	5.24
Solids, Suspended Sediment SSC @ 105 C	mg/L	12	< 5	7040	1021
Solids, Total Dissolved TDS @ 180 C	mg/L	12	340	7200	3678
Solids, Total Suspended TSS @ 105 C	mg/L	12	< 5	4900	443.3
Metals- Dissolved					
Aluminum	mg/L	9	< 0.1	< 0.1	0.05
Arsenic	mg/L	9	< 0.001	< 0.001	0.0006
Barium	mg/L	9	< 0.1	< 0.1	0.05
Boron	mg/L	9	< 0.1	0.4	0.23
Cadmium	mg/L	9	< 0.005	< 0.005	0.003
Chromium	mg/L	9	< 0.01	< 0.05	0.007
Copper	mg/L	9	< 0.01	< 0.01	0.005
Iron	mg/L	9	< 0.03	0.15	0.034
Lead	mg/L	9	< 0.001	< 0.001	0.0005
Manganese	mg/L	9	< 0.01	1.53	0.305
Mercury	mg/L	9	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	9	< 0.1	< 0.1	0.05
Nickel	mg/L	9	< 0.01	< 0.05	0.008
Selenium	mg/L	9	< 0.001	< 0.005	0.0015
Silver	mg/L	9	< 0.005	< 0.005	0.003
Thorium 232	mg/L	9	< 0.005	< 0.005	0.003
Uranium	mg/L	10	0.0028	0.0368	0.0162
Vanadium	mg/L	9	< 0.1	< 0.1	0.05
Zinc	mg/L	9	< 0.01	< 0.01	0.005
Metals-Suspended					
Thorium 232	mg/L	12	< 0.001	0.035	0.0036
Uranium	mg/L	12	< 0.0003	0.0067	0.001
Metals-Total					
Aluminum	mg/L	9	< 0.1	170	20.55
Arsenic	mg/L	12	< 0.001	0.029	0.004
Barium	mg/L	12	< 0.1	0.9	0.1
Boron	mg/L	12	0.1	0.54	0.269
Cadmium	mg/L	12	< 0.005	< 0.005	0.003
Calcium	mg/L	9	70.8	526	327.42
Chromium	mg/L	12	< 0.05	0.19	0.039
Copper	mg/L	12	< 0.01	0.1	0.013
Iron	mg/L	12	0.06	108	10.066
Lead	mg/L	12	< 0.001	0.11	0.0102
Magnesium	mg/L	9	35.3	330	134.06
Manganese	mg/L	12	0.1	1.69	0.526
Mercury	mg/L	12	< 0.0001	< 0.001	0.0004
Molybdenum	mg/L	12	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		CHR05			
Description		Summary Statistics			
Date Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Nickel	mg/L	12	< 0.05	0.1	0.031
Potassium	mg/L	9	5.1	31.5	12.9
Selenium	mg/L	12	< 0.001	0.003	0.0015
Silica	mg/L	9	5.4	56.4	20.44
Silver	mg/L	12	< 0.005	< 0.005	0.003
Sodium	mg/L	9	58	897	462.2
Thorium 232	mg/L	11	< 0.005	0.046	0.0065
Uranium	mg/L	12	0.0043	0.0378	0.017
Vanadium	mg/L	12	< 0.1	0.3	0.07
Zinc	mg/L	12	< 0.01	0.47	0.048
Metals- Dissolved Speciated					
Selenium-IV	mg/L	9	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	9	< 0.001	0.002	0.0008
Metals-Total-Speciaded					
Chromium, Hexavalent	mg/L	9	< 0.005	0.009	0.0032
Chromium, Trivalent	mg/L	9	< 0.01	< 0.01	0.005
Selenium-IV	mg/L	9	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	9	< 0.001	0.003	0.0012
Radionuclides- Dissolved					
Lead 210	pCi/L	6	< 1	6.6	2.45
Polonium 210	pCi/L	6	< 1	2.4	0.85
Radium 226	pCi/L	9	< 0.2	1.4	0.24
Thorium 230	pCi/L	10	< 0.2	< 0.2	0.09
Radionuclides-Suspended					
Lead 210	pCi/L	6	< 1	22	6.3
Polonium 210	pCi/L	6	< 1	3.8	1.18
Radium 226	pCi/L	10	< 0.2	3.8	0.6
Thorium 230	pCi/L	10	< 0.2	2.2	0.49
Radionuclides-Total					
Gross Alpha	pCi/L	12	4	29.9	19.62
Gross Beta	pCi/L	12	< 2	38	12
Gross Gamma	pCi/L	9	< 20	1140	243
Data Quality					
A/C Balance (± 5)	%	12	-9.14	5.94	-0.99
Anions	meq/L	12	6.07	99.1	53.839
Cations	meq/L	12	5.05	101	53.304
Solids, Total Dissolved Calculated	mg/L	12	365	6450	3425.4
TDS Balance (0.80 - 1.20)	dec. %	12	0.94	1.13	1.057

Sampling Interval: Monthly

Missing Samples and Reasons: None

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		PSC01		Summary Statistics			
Description		Pass Creek Downstream					
Date Collected		7/19/2007	7/18/2008				
Lab ID		R07070315-001	R08070340-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	NM	13.56	1	13.56	13.56	13.56
Field pH	s.u.	NM	8.12	1	8.12	8.12	8.12
Field Dissolved Oxygen	mg/L	NM	10.26	1	10.26	10.26	10.26
Field Conductivity	umhos/cm	NM	1844	1	1844	1844	1844
Field Turbidity	NTU	NM	1780	1	1780	1780	1780
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	4000	3700	2	3700	4000	3850
Major Ions							
Alkalinity, Total as CaCO3	mg/L	56	62	2	56	62	59
Bicarbonate as HCO3	mg/L	68	76	2	68	76	72
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	NM	459	1	459	459	459
Chloride	mg/L	2.8	2	2	2	2.8	2.4
Fluoride	mg/L	0.14	0.2	2	0.14	0.2	0.17
Magnesium, Dissolved	mg/L	NM	12.5	1	12.5	12.5	12.5
Nitrogen, Ammonia as N	mg/L	NM	0.1	1	0.1	0.1	0.1
Nitrogen, Nitrate as N	mg/L	0.77	0.6	2	0.6	0.77	0.685
Potassium, Dissolved	mg/L	NM	7	1	7	7	7
Silica, Dissolved	mg/L	NM	1.7	1	1.7	1.7	1.7
Sodium, Dissolved	mg/L	NM	2.6	1	2.6	2.6	2.6
Sulfate	mg/L	1400	977	2	977	1400	1188.5
Physical Properties							
Conductivity @ 25 C	umhos/cm	1840	1750	2	1750	1840	1795
pH	s.u.	7.16	7.24	2	7.16	7.24	7.2
Sodium Adsorption Ratio (SAR)	unitless	NM	< 0.1	1	< 0.1	< 0.1	0.05
Solids, Suspended Sediment SSC @ 105 C	mg/L	134	4490	2	134	4490	2312
Solids, Total Dissolved TDS @ 180 C	mg/L	1700	1600	2	1600	1700	1650
Solids, Total Suspended TSS @ 105 C	mg/L	150	3700	2	150	3700	1925
Metals- Dissolved							
Aluminum	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	NM	0.002	1	0.002	0.002	0.002
Barium	mg/L	NM	0.1	1	0.1	0.1	0.1
Boron	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	NM	0.02	1	0.02	0.02	0.02
Copper	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	NM	0.1	1	0.1	0.1	0.1
Lead	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	NM	0.04	1	0.04	0.04	0.04
Mercury	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	NM	0.03	1	0.03	0.03	0.03
Selenium	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Silver	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	NM	0.005	1	0.005	0.005	0.005
Vanadium	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Metals-Suspended							
Thorium 232	mg/L	< 0.001	0.001	2	< 0.001	< 0.001	0.0008
Uranium	mg/L	0.0004	0.0005	2	0.0004	0.0005	0.0005
Metals-Total							
Aluminum	mg/L	NM	85.9	1	85.9	85.9	85.9
Arsenic	mg/L	0.003	0.031	2	0.003	0.031	0.017
Barium	mg/L	0.2	0.8	2	0.2	0.8	0.5
Boron	mg/L	< 0.1	0.3	2	< 0.1	0.3	0.18
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	510	664	2	510	664	587
Chromium	mg/L	< 0.05	0.17	2	< 0.05	0.17	0.098
Copper	mg/L	< 0.01	0.1	2	< 0.01	0.1	0.053
Iron	mg/L	2	128	2	2	128	65
Lead	mg/L	0.002	0.074	2	0.002	0.074	0.038
Magnesium	mg/L	30.5	164	2	30.5	164	97.3
Manganese	mg/L	0.16	2.55	2	0.16	2.55	1.355
Mercury	mg/L	< 0.001	< 0.0002	2	< 0.0002	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	0.15	2	< 0.05	0.15	0.09

Powertech (USA) Inc. Surface Water Sampling ID:		PSC01		Summary Statistics			
Description		Pass Creek Downstream					
Date Collected		7/19/2007	7/18/2008				
Lab ID		R07070315-001	R08070340-001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	12.4	46.1	2	12.4	46.1	29.25
Selenium	mg/L	0.002	< 0.001	2	< 0.001	0.002	0.0013
Silica	mg/L	16.5	49.2	2	16.5	49.2	32.85
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	6.3	3	2	3	6.3	4.65
Thorium 232	mg/L	NM	0.02	1	0.02	0.02	0.02
Uranium	mg/L	0.01	0.0252	2	0.01	0.0252	0.0176
Vanadium	mg/L	< 0.1	0.1	2	< 0.1	< 0.1	0.08
Zinc	mg/L	0.03	0.34	2	0.03	0.34	0.185
Metals- Dissolved Speciated							
Selenium-IV	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	NM	0.17	1	0.17	0.17	0.17
Selenium-IV	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	2.2 (7.4)*	1	2.2	2.2	2.2
Polonium 210	pCi/L	NM	0.7 (1)*	1	0.7	0.7	0.7
Radium 226	pCi/L	NM	0.1 (0.2)*	1	0.1	0.1	0.1
Thorium 230	pCi/L	NM	0 (0.2)*	1	0	0	0
Radionuclides-Suspended							
Lead 210	pCi/L	NM	0.9 (11.8)*	1	0.9	0.9	0.9
Polonium 210	pCi/L	NM	0.3 (1)*	1	0.3	0.3	0.3
Radium 226	pCi/L	NM	0.1 (0.5)*	1	0.1	0.1	0.1
Thorium 230	pCi/L	NM	0.5	1	0.5	0.5	0.5
Radionuclides-Total							
Gross Alpha	pCi/L	8.8	6.5 (10.7)*	2	6.5	8.8	7.65
Gross Beta	pCi/L	15.1	1.4 (11.5)*	2	1.4	15.1	8.25
Gross Gamma	pCi/L	NM	0 (20)*	1	0	0	0
Data Quality							
A/C Balance (± 5)	%	-2.54	5.55	2	-2.54	5.55	1.505
Anions	meq/L	30.5	21.7	2	21.7	30.5	26.1
Cations	meq/L	29	24.2	2	24.2	29	26.6
Solids, Total Dissolved Calculated	mg/L	2020	1510	2	1510	2020	1765
TDS Balance (0.80 - 1.20)	dec. %	0.86	1.07	2	0.86	1.07	0.965

Sampling Interval: Monthly

Missing Samples and Reasons: August 2007 through June 2008 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Surface Water Sampling ID:		PSC02		Summary Statistics			
Description		Pass Creek Upstream					
Date Collected		7/19/2007	7/18/2008				
Lab ID		R07070315-002	R08070340-002				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters							
Field Temperature	°C	NM	17.13	1	17.13	17.13	17.13
Field pH	s.u.	NM	8.1	1	8.1	8.1	8.1
Field Dissolved Oxygen	mg/L	NM	9.51	1	9.51	9.51	9.51
Field Conductivity	umhos/cm	NM	1696	1	1696	1696	1696
Field Turbidity	NTU	NM	1672	1	1672	1672	1672
Bacteriological							
Bacteria, Fecal Coliform	CFU/100ml	4400	7500	2	4400	7500	5950
Major Ions							
Alkalinity, Total as CaCO3	mg/L	50	60	2	50	60	55
Bicarbonate as HCO3	mg/L	61	73	2	61	73	67
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	3
Calcium, Dissolved	mg/L	NM	439	1	439	439	439
Chloride	mg/L	1.6	2	2	1.6	2	1.8
Fluoride	mg/L	0.14	0.2	2	0.14	0.2	0.17
Magnesium, Dissolved	mg/L	NM	10.1	1	10.1	10.1	10.1
Nitrogen, Ammonia as N	mg/L	NM	0.2	1	0.2	0.2	0.2
Nitrogen, Nitrate as N	mg/L	0.56	0.6	2	0.56	0.6	0.58
Potassium, Dissolved	mg/L	NM	6	1	6	6	6
Silica, Dissolved	mg/L	NM	1.8	1	1.8	1.8	1.8
Sodium, Dissolved	mg/L	NM	1.7	1	1.7	1.7	1.7
Sulfate	mg/L	645	909	2	645	909	777
Physical Properties							
Conductivity @ 25 C	umhos/cm	1240	1520	2	1240	1520	1380
pH	s.u.	7.26	7.34	2	7.26	7.34	7.3
Sodium Adsorption Ratio (SAR)	unitless	NM	< 0.1	1	< 0.1	< 0.1	0.05
Solids, Suspended Sediment SSC @ 105 C	mg/L	108	2370	2	108	2370	1239
Solids, Total Dissolved TDS @ 180 C	mg/L	1100	1500	2	1100	1500	1300
Solids, Total Suspended TSS @ 105 C	mg/L	140	2000	2	140	2000	1070
Metals- Dissolved							
Aluminum	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	NM	0.002	1	0.002	0.002	0.002
Barium	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Copper	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	NM	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	NM	0.03	1	0.03	0.03	0.03
Mercury	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Selenium	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Silver	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	NM	0.0007	1	0.0007	0.0007	0.0007
Vanadium	mg/L	NM	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	NM	< 0.01	1	< 0.01	< 0.01	0.005
Metals-Suspended							
Thorium 232	mg/L	< 0.001	0.002	2	< 0.001	0.002	0.0013
Uranium	mg/L	0.0005	0.0009	2	0.0005	0.0009	0.0007
Metals-Total							
Aluminum	mg/L	NM	58.7	1	58.7	58.7	58.7
Arsenic	mg/L	0.003	0.018	2	0.003	0.018	0.0105
Barium	mg/L	0.3	0.5	2	0.3	0.5	0.4
Boron	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Calcium	mg/L	270	516	2	270	516	393
Chromium	mg/L	< 0.05	0.1	2	< 0.05	0.1	0.063
Copper	mg/L	< 0.01	0.06	2	< 0.01	0.06	0.033
Iron	mg/L	0.28	75.7	2	0.28	75.7	37.99
Lead	mg/L	0.002	0.04	2	0.002	0.04	0.021
Magnesium	mg/L	18	97.7	2	18	97.7	57.85
Manganese	mg/L	0.12	1.48	2	0.12	1.48	0.8
Mercury	mg/L	< 0.001	< 0.0002	2	< 0.0002	< 0.001	0.0003
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	0.09	2	< 0.05	0.09	0.058

Powertech (USA) Inc. Surface Water Sampling ID:		PSC02		Summary Statistics			
Description		Pass Creek Upstream					
Date Collected		7/19/2007	7/18/2008				
Lab ID		R07070315-002	R08070340-002				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Potassium	mg/L	8	30.1	2	8	30.1	19.05
Selenium	mg/L	0.003	< 0.001	2	< 0.001	0.003	0.0018
Silica	mg/L	7	51.9	2	7	51.9	29.45
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Sodium	mg/L	2	2	2	2	2	2
Thorium 232	mg/L	NM	0.012	1	0.012	0.012	0.012
Uranium	mg/L	0.0012	0.0057	2	0.0012	0.0057	0.0035
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Zinc	mg/L	0.02	0.19	2	0.02	0.19	0.105
Metals- Dissolved Speciated							
Selenium-IV	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Metals-Total-Speciaded							
Chromium, Hexavalent	mg/L	NM	< 0.005	1	< 0.005	< 0.005	0.003
Chromium, Trivalent	mg/L	NM	0.1	1	0.1	0.1	0.1
Selenium-IV	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	NM	< 0.001	1	< 0.001	< 0.001	0.0005
Radionuclides- Dissolved							
Lead 210	pCi/L	NM	1.7 (7.4)*	1	1.7	1.7	1.7
Polonium 210	pCi/L	NM	0.2 (1)*	1	0.2	0.2	0.2
Radium 226	pCi/L	NM	-0.04 (0.2)*	1	-0.04	-0.04	-0.04
Thorium 230	pCi/L	NM	0 (0.2)*	1	0	0	0
Radionuclides-Suspended							
Lead 210	pCi/L	NM	-0.8 (11.8)*	1	-0.8	-0.8	-0.8
Polonium 210	pCi/L	NM	0.3 (1)*	1	0.3	0.3	0.3
Radium 226	pCi/L	NM	-0.2 (0.6)*	1	-0.2	-0.2	-0.2
Thorium 230	pCi/L	NM	0.2 (0.2)*	1	0.2	0.2	0.2
Radionuclides-Total							
Gross Alpha	pCi/L	1.9	4.2 (9)*	2	1.9	4.2	3.05
Gross Beta	pCi/L	11.9	-7 (9.2)*	2	-7	11.9	2.45
Gross Gamma	pCi/L	NM	0 (20)*	1	0	0	0
Data Quality							
A/C Balance (± 5)	%	3.42	6.31	2	3.42	6.31	4.865
Anions	meq/L	14.5	20.2	2	14.5	20.2	17.35
Cations	meq/L	15.6	23	2	15.6	23	19.3
Solids, Total Dissolved Calculated	mg/L	998	1410	2	998	1410	1204
TDS Balance (0.80 - 1.20)	dec. %	1.07	1.07	2	1.07	1.07	1.07

Sampling Interval: Monthly

Missing Samples and Reasons: August 2007 through June 2008 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



BEN01
Bennett Canyon
Passive Sampler, Monthly
July 2007 through June 2008 - Dry

Powertech (USA) Inc. Surface Water Sampling ID:		UNT01		Summary Statistics		
Description		Unnamed Tributary				
Date Collected		7/18/2008				
Lab ID		R08070342-001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Field Temperature	°C	NM	0	NM	NM	NM
Field pH	s.u.	NM	0	NM	NM	NM
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	NM	0	NM	NM	NM
Field Turbidity	NTU	NM	0	NM	NM	NM
Bacteriological						
Bacteria, Fecal Coliform	CFU/100ml	NM	0	NM	NM	NM
Major Ions						
Alkalinity, Total as CaCO3	mg/L	< 5	1	< 5	< 5	3
Bicarbonate as HCO3	mg/L	< 5	1	< 5	< 5	3
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	3
Calcium, Dissolved	mg/L	51.6	1	51.6	51.6	51.6
Chloride	mg/L	1	1	1	1	1
Fluoride	mg/L	0.3	1	0.3	0.3	0.3
Magnesium, Dissolved	mg/L	22.4	1	22.4	22.4	22.4
Nitrogen, Ammonia as N	mg/L	0.4	1	0.4	0.4	0.4
Nitrogen, Nitrate as N	mg/L	0.6	1	0.6	0.6	0.6
Potassium, Dissolved	mg/L	8	1	8	8	8
Silica, Dissolved	mg/L	0.8	1	0.8	0.8	0.8
Sodium, Dissolved	mg/L	2.5	1	2.5	2.5	2.5
Sulfate	mg/L	278	1	278	278	278
Physical Properties						
Conductivity @ 25 C	umhos/cm	536	1	536	536	536
pH	s.u.	4.91	1	4.91	4.91	4.91
Sodium Adsorption Ratio (SAR)	unitless	< 0.1	1	< 0.1	< 0.1	0.05
Solids, Suspended Sediment SSC @ 105 C	mg/L	291	1	291	291	291
Solids, Total Dissolved TDS @ 180 C	mg/L	380	1	380	380	380
Solids, Total Suspended TSS @ 105 C	mg/L	290	1	290	290	290
Metals- Dissolved						
Aluminum	mg/L	0.4	1	0.4	0.4	0.4
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.05	1	0.05	0.05	0.05
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	3.87	1	3.87	3.87	3.87
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	0.09	1	0.09	0.09	0.09
Selenium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	0.06	1	0.06	0.06	0.06
Metals-Suspended						
Thorium 232	mg/L	0.002	1	0.002	0.002	0.002
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Metals-Total						
Aluminum	mg/L	8.1	1	8.1	8.1	8.1
Arsenic	mg/L	0.03	1	0.03	0.03	0.03
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Calcium	mg/L	59.2	1	59.2	59.2	59.2
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.03
Copper	mg/L	0.01	1	0.01	0.01	0.01
Iron	mg/L	8.93	1	8.93	8.93	8.93
Lead	mg/L	0.008	1	0.008	0.008	0.008
Magnesium	mg/L	24.8	1	24.8	24.8	24.8
Manganese	mg/L	5.06	1	5.06	5.06	5.06
Mercury	mg/L	< 0.0002	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Surface Water Sampling ID:		UNT01		Summary Statistics		
Description		Unnamed Tributary				
Date Collected		7/18/2008				
Lab ID		R08070342-001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Nickel	mg/L	0.11	1	0.11	0.11	0.11
Potassium	mg/L	10.1	1	10.1	10.1	10.1
Selenium	mg/L	NM	0	NM	NM	NM
Silica	mg/L	12.5	1	12.5	12.5	12.5
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Sodium	mg/L	2	1	2	2	2
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	0.0009	1	0.0009	0.0009	0.0009
Vanadium	mg/L	0.2	1	0.2	0.2	0.2
Zinc	mg/L	0.09	1	0.09	0.09	0.09
Metals- Dissolved Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals-Total-Speciated						
Chromium, Hexavalent	mg/L	NM	0	NM	NM	NM
Chromium, Trivalent	mg/L	NM	0	NM	NM	NM
Selenium-IV	mg/L	NM	0	NM	NM	NM
Selenium-VI	mg/L	NM	0	NM	NM	NM
Radionuclides- Dissolved						
Lead 210	pCi/L	NM	0	NM	NM	NM
Polonium 210	pCi/L	NM	0	NM	NM	NM
Radium 226	pCi/L	0.2 (0.4)*	1	0.2	0.2	0.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides-Suspended						
Lead 210	pCi/L	NM	0	NM	NM	NM
Polonium 210	pCi/L	NM	0	NM	NM	NM
Radium 226	pCi/L	0.03 (0.5)*	1	0.03	0.03	0.03
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides-Total						
Gross Alpha	pCi/L	6.1	1	6.1	6.1	6.1
Gross Beta	pCi/L	12.6	1	12.6	12.6	12.6
Gross Gamma	pCi/L	221	1	221	221	221
Data Quality						
A/C Balance (± 5)	%	-7.33	1	-7.33	-7.33	-7.33
Anions	meq/L	5.89	1	5.89	5.89	5.89
Cations	meq/L	5.09	1	5.09	5.09	5.09
Solids, Total Dissolved Calculated	mg/L	369	1	369	369	369
TDS Balance (0.80 - 1.20)	dec. %	1.02	1	1.02	1.02	1.02

Sampling Interval: Passive

Missing Samples and Reasons: July 2007 through June 2008 - Dry

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

APPENDIX 2.7-F

Surface Water Quality Analytical Results

SampleID	Sample Date	LabID	Page
BK01	11/07	R07110302-004	293
BLK01	12/07	R07120148-005	336
	03/08	R08030091-006	467
	04/08	R08040220-002	572
	05/08	R08050356-005	613
BVC01	07/07	R07070382-001	26
	08/07	R07080273-001	56
	09/07	R07090368-002	93
	10/07	R07100295-003	180
	11/07	R07110229-002	248
	12/07	R07120148-002	324
	12/07	R07120148-003	328
	01/08	R08010124-002	362
	03/08	R08030091-005	463
	04/08	R08040178-004	543
	05/08	R08050356-002	601
	06/08	R08060315-002	644
BVC04	07/07	R07070382-002	28
	08/07	R07080273-002	58
	10/07	R07100001-001	152
	10/07	R07100295-001	174
	11/07	R07110229-003	252
	12/07	R07120148-001	320
	01/08	R08010124-003	366
	03/08	R08030091-002	451
	03/08	R08030091-003	455
	04/08	R08040178-003	539
	05/08	R08050356-004	609
	06/08	R08060315-004	652
CHR01	08/07	R07080019-001	40
	09/07	R07090098-001	72
	09/07	R07090098-002	74
	09/07	R07090368-001	90
	10/07	R07100295-002	177
	11/07	R07110229-001	244
	03/08	R08030091-004	459
	04/08	R08040220-001	568
	05/08	R08050356-003	605
	06/08	R08060315-003	648

SampleID	Sample Date	LabID	Page
CHR05	08/07	R07080019-002	42
	09/07	R07090098-003	76
	09/07	R07090368-004	99
	10/07	R07100295-004	183
	11/07	R07110229-004	256
	12/07	R07120148-004	332
	01/08	R08010124-001	358
	02/08	R08020131-001	418
	03/08	R08030091-001	447
	04/08	R08040178-001	531
	04/08	R08040178-002	535
	05/08	R08050356-001	597
	06/08	R08060315-001	640
PSC01	07/07	R07070315-001	7
	07/08	R08070340-001	784
	07/08	R08070343-001	830
PSC02	07/07	R07070315-002	9
	07/08	R08070340-002	788
	07/08	R08070343-002	833
	07/08	R08070343-003	836
SUB01	03/08	R08030252-003	499
	06/08	R08060347-001	700
SUB02	09/07	R07090389-002	119
	11/07	R07110147-001	205
	02/08	R08020083-003	395
	06/08	R08060347-002	704
	06/08	R08060347-003	708
SUB03	11/07	R07110147-003	213
	06/08	R08060347-004	712
SUB04	11/07	R07110147-002	209
	06/08	R08060316-001	676
SUB06	09/07	R07090389-003	122
	11/07	R07110302-001	281
	11/07	R07110302-002	285
	02/08	R08020083-002	391
	06/08	R08060403-003	747
SUB07	09/07	R07090389-001	116
	11/07	R07110147-004	217
	03/08	R08030252-002	495
	06/08	R08060403-004	751



Surface Water Quality Analytical Results Index

SampleID	Sample Date	LabID	Page
SUB08	09/07	R07090368-003	96
	02/08	R08020083-001	388
	06/08	R08060403-001	739
SUB09	03/08	R08030252-004	503
	06/08	R08060403-002	743
SUB10	03/08	R08030252-005	507
	06/08	R08060403-006	759
SUB11	09/07	R07090389-004	125
	11/07	R07110302-003	289
	03/08	R08030252-001	491
	06/08	R08060403-005	755
SUB24	02/08	R08020131-002	422
UNT01	07/08	R08070342-001	810



ANALYTICAL SUMMARY REPORT

November 09, 2007

Dan Hoyer
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701

Revised Fecal #'s

Workorder No.: R07070315

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/20/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070315-001	DewBurd PSC01	07/19/07 10:45	07/20/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070315-002	DewBurd PSC02	07/19/07 11:30	07/20/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



Date: 09-Nov-07

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07070315

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- reissue of fecal data requested by client

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-001
 Client Sample ID: DewBurd PSC01

Revised Date: 11/09/07
 Report Date: 09/03/07
 Collection Date: 07/19/07 10:45
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4000	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
Value is approximate. A small enough aliquot was not used to determine an accurate result.								
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Calcium	510	mg/L	D	1		10	E200.7	08/03/07 13:28/eli-c
Chloride	2.8	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Magnesium	30.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Nitrogen, Nitrate as N	0.77	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Potassium	12.4	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Silica	16.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sodium	6.3	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sulfate	1400	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1840	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.16	s.u.		0.01		1	A4500-H B	07/24/07 17:21/ch
Solids, Suspended Sediment SSC @ 105 C	134	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	07/25/07 08:49/jn
Solids, Total Suspended TSS @ 105 C	150	mg/L		5		1	A2540 D	07/23/07 15:29/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:27/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	08/02/07 01:27/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Barium	0.2	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 21:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Iron	2.00	mg/L		0.03		1	E200.7	08/02/07 21:57/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-001
Client Sample ID: DewBurd PSC01

Revised Date: 11/09/07
Report Date: 09/03/07
Collection Date: 07/19/07 10:45
Date Received: 07/20/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/28/07 08:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Uranium	0.0100	mg/L		0.0003		10	E200.8	07/28/07 08:20/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.8	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	15.1	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.54	%				1	A1030 E	08/28/07 11:21/kl
Anions	30.5	meq/L				1	A1030 E	08/28/07 11:21/kl
Cations	29.0	meq/L				1	A1030 E	08/28/07 11:21/kl
Solids, Total Dissolved Calculated	2020	mg/L				1	A1030 E	08/28/07 11:21/kl
TDS Balance (0.80 - 1.20)	0.860	dec. %				1	A1030 E	08/28/07 11:21/kl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-002
 Client Sample ID: DewBurd PSC02

Revised Date: 11/09/07
 Report Date: 09/03/07
 Collection Date: 07/19/07 11:30
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	4400	CFU/100ml	D	10			10	A9222 D	07/20/07 10:45/jmh
Value is approximate. A small enough aliquot was not used to determine an accurate result.									
MAJOR IONS									
Alkalinity, Total as CaCO3	50	mg/L		5			1	A2320 B	07/23/07 17:43/jn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/23/07 17:43/jn
Bicarbonate as HCO3	61	mg/L		5			1	A2320 B	07/23/07 17:43/jn
Calcium	270	mg/L		1			1	E200.7	08/02/07 22:54/eli-c
Chloride	1.6	mg/L		1.0			1	E300.0	07/20/07 21:47/jmh
Fluoride	0.14	mg/L		0.10			1	E300.0	07/20/07 21:47/jmh
Magnesium	18	mg/L		1			1	E200.7	08/02/07 22:54/eli-c
Nitrogen, Nitrate as N	0.56	mg/L		0.10			1	E300.0	07/20/07 21:47/jmh
Potassium	8	mg/L		1			1	E200.7	08/02/07 22:54/eli-c
Silica	7	mg/L		1			1	E200.7	08/02/07 22:54/eli-c
Sodium	2	mg/L		1			1	E200.7	08/02/07 22:54/eli-c
Sulfate	645	mg/L	D	14			20	E300.0	07/26/07 01:01/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1240	umhos/cm		5			1	A2510 B	07/24/07 18:04/ch
pH	7.26	s.u.		0.01			1	A4500-H B	07/24/07 17:22/ch
Solids, Suspended Sediment SSC @ 105 C	108	mg/L		5			1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5			1	A2540 C	07/23/07 11:53/jn
Solids, Total Suspended TSS @ 105 C	140	mg/L		5			1	A2540 D	07/23/07 15:30/jn
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			1	E200.8	08/02/07 01:33/eli-c
Uranium	0.0005	mg/L		0.0003			1	E200.8	08/02/07 01:33/eli-c
METALS - TOTAL									
Arsenic	0.003	mg/L		0.001			10	E200.8	07/28/07 08:27/eli-c
Barium	0.3	mg/L		0.1			10	E200.8	07/28/07 08:27/eli-c
Boron	ND	mg/L		0.1			1	E200.7	08/02/07 22:04/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/28/07 08:27/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/28/07 08:27/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/28/07 08:27/eli-c
Iron	0.28	mg/L		0.03			1	E200.7	08/02/07 22:54/eli-c
Lead	0.002	mg/L		0.001			10	E200.8	07/28/07 08:27/eli-c
Manganese	0.12	mg/L		0.01			10	E200.8	07/28/07 08:27/eli-c
Mercury	ND	mg/L		0.001			10	E200.8	07/28/07 08:27/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-002
 Client Sample ID: DewBurd PSC02

Revised Date: 11/09/07
 Report Date: 09/03/07
 Collection Date: 07/19/07 11:30
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL							
Molybdenum	ND	mg/L		0.1		10 E200.8	07/28/07 08:27/eli-c
Nickel	ND	mg/L		0.05		10 E200.8	07/28/07 08:27/eli-c
Selenium	0.003	mg/L	D	0.002		10 E200.8	07/28/07 08:27/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/28/07 08:27/eli-c
Uranium	0.0012	mg/L		0.0003		10 E200.8	07/28/07 08:27/eli-c
Vanadium	ND	mg/L		0.1		10 E200.8	07/28/07 08:27/eli-c
Zinc	0.02	mg/L		0.01		10 E200.8	07/28/07 08:27/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	1.9	pCi/L		1.0		1 E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1 E900.0	08/06/07 00:52/eli-c
Gross Beta	11.9	pCi/L		2.0		1 E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	08/06/07 00:52/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	08/01/07 15:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.42	%				1 A1030 E	08/28/07 11:21/kl
Anions	14.5	meq/L				1 A1030 E	08/28/07 11:21/kl
Cations	15.6	meq/L				1 A1030 E	08/28/07 11:21/kl
Solids, Total Dissolved Calculated	998	mg/L				1 A1030 E	08/28/07 11:21/kl
TDS Balance (0.80 - 1.20)	1.07	dec. %				1 A1030 E	08/28/07 11:21/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

September 03, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07070315

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/20/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070315-001	DewBurd PSC01	07/19/07 10:45	07/20/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070315-002	DewBurd PSC02	07/19/07 11:30	07/20/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-001
 Client Sample ID: DewBurd PSC01

Report Date: 09/03/07
 Collection Date: 07/19/07 10:45
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	>2000	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Calcium	510	mg/L	D	1		10	E200.7	08/03/07 13:28/eli-c
Chloride	2.8	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Magnesium	30.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Nitrogen, Nitrate as N	0.77	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Potassium	12.4	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Silica	16.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sodium	6.3	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sulfate	1400	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1840	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.16	s.u.		0.01		1	A4500-H B	07/24/07 17:21/ch
Solids, Suspended Sediment SSC @ 105 C	134	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	07/25/07 08:49/jn
Solids, Total Suspended TSS @ 105 C	150	mg/L		5		1	A2540 D	07/23/07 15:29/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:27/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	08/02/07 01:27/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Barium	0.2	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 21:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Iron	2.00	mg/L		0.03		1	E200.7	08/02/07 21:57/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-001
 Client Sample ID: DewBurd PSC01

Report Date: 09/03/07
 Collection Date: 07/19/07 10:45
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/28/07 08:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Uranium	0.0100	mg/L		0.0003		10	E200.8	07/28/07 08:20/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.8	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	15.1	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.54	%				1	A1030 E	08/28/07 11:21/kl
Anions	30.5	meq/L				1	A1030 E	08/28/07 11:21/kl
Cations	29.0	meq/L				1	A1030 E	08/28/07 11:21/kl
Solids, Total Dissolved Calculated	2020	mg/L				1	A1030 E	08/28/07 11:21/kl
TDS Balance (0.80 - 1.20)	0.860	dec. %				1	A1030 E	08/28/07 11:21/kl

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 2 of 4



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-002
 Client Sample ID: DewBurd PSC02

Report Date: 09/03/07
 Collection Date: 07/19/07 11:30
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	>2000	CFU/100ml	D	10			A9222 D	07/20/07 10:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	50	mg/L		5			A2320 B	07/23/07 17:43/jn
Carbonate as CO3	ND	mg/L		5			A2320 B	07/23/07 17:43/jn
Bicarbonate as HCO3	61	mg/L		5			A2320 B	07/23/07 17:43/jn
Calcium	270	mg/L		1			E200.7	08/02/07 22:54/eli-c
Chloride	1.6	mg/L		1.0			E300.0	07/20/07 21:47/jmh
Fluoride	0.14	mg/L		0.10			E300.0	07/20/07 21:47/jmh
Magnesium	18	mg/L		1			E200.7	08/02/07 22:54/eli-c
Nitrogen, Nitrate as N	0.56	mg/L		0.10			E300.0	07/20/07 21:47/jmh
Potassium	8	mg/L		1			E200.7	08/02/07 22:54/eli-c
Silica	7	mg/L		1			E200.7	08/02/07 22:54/eli-c
Sodium	2	mg/L		1			E200.7	08/02/07 22:54/eli-c
Sulfate	645	mg/L	D	14			E300.0	07/26/07 01:01/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1240	umhos/cm		5			A2510 B	07/24/07 18:04/ch
pH	7.26	s.u.		0.01			A4500-H B	07/24/07 17:22/ch
Solids, Suspended Sediment SSC @ 105 C	108	mg/L		5			D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5			A2540 C	07/23/07 11:53/jn
Solids, Total Suspended TSS @ 105 C	140	mg/L		5			A2540 D	07/23/07 15:30/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001			E200.8	08/02/07 01:33/eli-c
Uranium	0.0005	mg/L		0.0003			E200.8	08/02/07 01:33/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001			E200.8	07/28/07 08:27/eli-c
Barium	0.3	mg/L		0.1			E200.8	07/28/07 08:27/eli-c
Boron	ND	mg/L		0.1			E200.7	08/02/07 22:04/eli-c
Cadmium	ND	mg/L		0.005			E200.8	07/28/07 08:27/eli-c
Chromium	ND	mg/L		0.05			E200.8	07/28/07 08:27/eli-c
Copper	ND	mg/L		0.01			E200.8	07/28/07 08:27/eli-c
Iron	0.28	mg/L		0.03			E200.7	08/02/07 22:54/eli-c
Lead	0.002	mg/L		0.001			E200.8	07/28/07 08:27/eli-c
Manganese	0.12	mg/L		0.01			E200.8	07/28/07 08:27/eli-c
Mercury	ND	mg/L		0.001			E200.8	07/28/07 08:27/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070315-002
 Client Sample ID: DewBurd PSC02

Report Date: 09/03/07
 Collection Date: 07/19/07 11:30
 Date Received: 07/20/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL									
Molybdenum	ND	mg/L		0.1			10	E200.8	07/28/07 08:27/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/28/07 08:27/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/28/07 08:27/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/28/07 08:27/eli-c
Uranium	0.0012	mg/L		0.0003			10	E200.8	07/28/07 08:27/eli-c
Vanadium	ND	mg/L		0.1			10	E200.8	07/28/07 08:27/eli-c
Zinc	0.02	mg/L		0.01			10	E200.8	07/28/07 08:27/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	1.9	pCi/L		1.0			1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	0.7	pCi/L					1	E900.0	08/06/07 00:52/eli-c
Gross Beta	11.9	pCi/L		2.0			1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	2.4	pCi/L					1	E900.0	08/06/07 00:52/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.42	%					1	A1030 E	08/28/07 11:21/lkl
Anions	14.5	meq/L					1	A1030 E	08/28/07 11:21/lkl
Cations	15.6	meq/L					1	A1030 E	08/28/07 11:21/lkl
Solids, Total Dissolved Calculated	998	mg/L					1	A1030 E	08/28/07 11:21/lkl
TDS Balance (0.80 - 1.20)	1.07	dec. %					1	A1030 E	08/28/07 11:21/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 070723A-ALK-SEL-W		
Sample ID: MBLK1_070723A Alkalinity, Total as CaCO3	Method Blank 4	mg/L	3			Run: PH_COND1-R_070723A			07/23/07 17:32
Sample ID: LCS1_070723A Alkalinity, Total as CaCO3	Laboratory Control Sample 988	mg/L	5.0	98	90	110	Run: PH_COND1-R_070723A		07/23/07 17:34
Method: A2510 B							Batch: 070724_1_COND-PROBE-W		
Sample ID: LCS1-1_070724 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070724B		07/24/07 17:54
Sample ID: LCS2-1_070724 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070724B		07/24/07 17:56
Sample ID: LCS_COND-1_070724 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070724B		07/24/07 17:57
Sample ID: MBLK-1_070724 Conductivity @ 25 C	Method Blank ND	umhos/cm	5			Run: PH_COND2-R_070724B			07/24/07 17:58
Method: A2540 C							Batch: 070723A-SLDS-TDS-W		
Sample ID: MBLK1_070723A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3			Run: BAL-4-R_070723B			07/23/07 11:48
Sample ID: LCS1_070723A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	106	90	110	Run: BAL-4-R_070723B		07/23/07 11:49
Sample ID: R07070329-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2800	mg/L	5.0	111	80	120	Run: BAL-4-R_070723B		07/23/07 11:55
Method: A2540 D							Batch: 070723A-SLDS-TSS-W		
Sample ID: MBLK1_070723A Solids, Total Suspended TSS @ 105 C	Method Blank ND	mg/L	2			Run: BAL-4-R_070723A			07/23/07 13:15
Sample ID: LCS1_070723A Solids, Total Suspended TSS @ 105 C	Laboratory Control Sample 190	mg/L	5.0	94	85	115	Run: BAL-4-R_070723A		07/23/07 13:16
Method: A4500-H B							Batch: 070724_1_PH-W		
Sample ID: LCS_pH-1_070724 pH	Laboratory Control Sample 6.86	s.u.	0.010	100	98.55	101.45	Run: PH_COND2-R_070724A		07/24/07 17:17

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D							Batch: 070720-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank						Run: MEMFILT_070720A		07/20/07 10:45
Bacteria, Fecal Coliform	ND	CFU/100ml		1					
Method: D3977							Batch: 070720A-SLDS-SSC-W		
Sample ID: MBLK1_070720A	Method Blank						Run: BAL-4-R_070720A		07/20/07 14:51
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R87501		
Sample ID: LRB	Method Blank			Run: SUB-C87501			08/02/07 15:09		
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Silicon as SiO2	ND	mg/L	0.06						
Sample ID: R07070315-002D	Sample Matrix Spike			Run: SUB-C87501			08/02/07 22:07		
Boron	0.534	mg/L	0.10	94	70	130			
Calcium	322	mg/L	0.50		70	130			A
Magnesium	68.7	mg/L	0.50	96	70	130			
Potassium	56.9	mg/L	0.50	96	70	130			
Sodium	50.5	mg/L	0.50	97	70	130			
Sample ID: R07070315-002D	Sample Matrix Spike Duplicate			Run: SUB-C87501			08/02/07 22:10		
Boron	0.523	mg/L	0.10	92	70	130	2.1	20	
Calcium	308	mg/L	0.50		70	130	4.3	20	A
Magnesium	66.8	mg/L	0.50	93	70	130	2.8	20	
Potassium	55.9	mg/L	0.50	94	70	130	1.8	20	
Sodium	49.2	mg/L	0.50	94	70	130	2.6	20	
Sample ID: C07071132-001AMS	Sample Matrix Spike			Run: SUB-C87501			08/02/07 23:13		
Boron	4.6	mg/L	0.10	93	70	130			
Iron	4.5	mg/L	0.051	90	70	130			
Calcium	1200	mg/L	1.1	84	70	130			
Magnesium	520	mg/L	1.1	95	70	130			
Potassium	1300	mg/L	0.84	94	70	130			
Silica	6.7	mg/L	0.42	86	70	130			
Sodium	480	mg/L	1.2	91	70	130			
Sample ID: C07071132-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C87501			08/02/07 23:16		
Boron	4.7	mg/L	0.10	94	70	130	1.5	20	
Iron	4.6	mg/L	0.051	92	70	130	1.6	20	
Calcium	1200	mg/L	1.1	84	70	130	0.0	20	
Magnesium	520	mg/L	1.1	96	70	130	0.4	20	
Potassium	1300	mg/L	0.84	94	70	130	0.1	20	
Silica	6.3	mg/L	0.42	79	70	130	5.7	20	
Sodium	480	mg/L	1.2	92	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R87501		
Sample ID: LFB-ICP25304	Laboratory Fortified Blank			Run: SUB-C87501			08/02/07 14:55		
Boron	1.9	mg/L	0.10	95	85	125			
Calcium	50	mg/L	0.50	94	85	125			
Iron	1.9	mg/L	0.030	94	85	125			
Magnesium	50	mg/L	0.50	98	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Silica	1.9	mg/L	0.10	86	85	125			
Sodium	49	mg/L	0.50	87	85	125			
Sample ID: LFB-ICP25304	Laboratory Fortified Blank			Run: SUB-C87501			08/03/07 00:26		
Boron	2.0	mg/L	0.10	98	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Calcium	50	mg/L	0.50	101	85	125			
Magnesium	51	mg/L	0.50	101	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Silica	1.9	mg/L	0.10	94	85	125			
Sodium	48	mg/L	0.50	96	85	125			
Sample ID: LRB	Method Blank			Run: SUB-C87501			08/03/07 00:40		
Boron	ND	mg/L	0.004						
Iron	ND	mg/L	0.002						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Silicon as SiO2	ND	mg/L	0.06						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15414		
Sample ID: MB-15414	Method Blank		Run: SUB-C87179			07/28/07 06:52			
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	0.0004	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	4E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: LCS1-15414	Laboratory Control Sample		Run: SUB-C87179			07/28/07 06:59			
Arsenic	0.0194	mg/L	0.0010	97	80	120			
Barium	0.0199	mg/L	0.10	99	80	120			
Cadmium	0.0199	mg/L	0.010	99	80	120			
Chromium	0.0189	mg/L	0.050	95	80	120			
Copper	0.0192	mg/L	0.010	96	80	120			
Lead	0.0197	mg/L	0.050	99	80	120			
Manganese	0.0191	mg/L	0.010	96	80	120			
Molybdenum	0.0206	mg/L	0.10	101	80	120			
Nickel	0.0189	mg/L	0.050	94	80	120			
Selenium	0.0977	mg/L	0.0010	98	80	120			
Silver	0.0169	mg/L	0.010	84	80	120			
Thorium 232	0.0179	mg/L	0.0010	89	80	120			
Uranium	0.0193	mg/L	0.00030	97	80	120			
Vanadium	0.0190	mg/L	0.10	95	80	120			
Zinc	0.0205	mg/L	0.010	98	80	120			
Sample ID: R07070315-002D	Post Digestion Spike		Run: SUB-C87179			07/28/07 09:00			
Arsenic	0.543	mg/L	0.0010	108	70	130			
Barium	0.822	mg/L	0.10	108	70	130			
Cadmium	0.536	mg/L	0.010	107	70	130			
Chromium	0.542	mg/L	0.050	108	70	130			
Copper	0.533	mg/L	0.010	105	70	130			
Lead	0.549	mg/L	0.050	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15414		
Sample ID: R07070315-002D	Post Digestion Spike			Run: SUB-C87179			07/28/07 09:00		
Manganese	0.668	mg/L	0.010	109	70	130			
Mercury	0.0504	mg/L	0.0010	101	70	130			
Molybdenum	0.536	mg/L	0.10	105	70	130			
Nickel	0.544	mg/L	0.050	108	70	130			
Selenium	0.629	mg/L	0.0020	125	70	130			
Silver	0.227	mg/L	0.010	113	70	130			
Thorium 232	0.540	mg/L	0.0010	108	70	130			
Uranium	0.546	mg/L	0.00032	109	70	130			
Vanadium	0.552	mg/L	0.10	108	70	130			
Zinc	0.598	mg/L	0.010	116	70	130			
Sample ID: R07070315-002D	Post Digestion Spike Duplicate			Run: SUB-C87179			07/28/07 09:07		
Arsenic	0.536	mg/L	0.0010	106	70	130	1.3	20	
Barium	0.823	mg/L	0.10	109	70	130	0.2	20	
Cadmium	0.536	mg/L	0.010	107	70	130	0.1	20	
Chromium	0.528	mg/L	0.050	105	70	130	2.7	20	
Copper	0.528	mg/L	0.010	104	70	130	0.8	20	
Lead	0.540	mg/L	0.050	108	70	130	1.7	20	
Manganese	0.649	mg/L	0.010	105	70	130	3.0	20	
Mercury	0.0498	mg/L	0.0010	100	70	130	1.2	20	
Molybdenum	0.537	mg/L	0.10	106	70	130	0.3	20	
Nickel	0.534	mg/L	0.050	106	70	130	1.8	20	
Selenium	0.624	mg/L	0.0020	124	70	130	0.8	20	
Silver	0.229	mg/L	0.010	115	70	130	1.1	20	
Thorium 232	0.532	mg/L	0.0010	106	70	130	1.5	20	
Uranium	0.535	mg/L	0.00032	107	70	130	2.0	20	
Vanadium	0.539	mg/L	0.10	106	70	130	2.4	20	
Zinc	0.559	mg/L	0.010	108	70	130	6.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15499		
Sample ID: MB-15499	Method Blank				Run: SUB-C87452		08/02/07 00:46		
Thorium 232	0.0004	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS-15499	Laboratory Control Sample				Run: SUB-C87452		08/02/07 00:53		
Uranium	0.0487	mg/L	0.00030	92	85	115			
Sample ID: R07070382-002F	Post Digestion Spike				Run: SUB-C87452		08/02/07 01:53		
Thorium 232	0.0483	mg/L	0.0010	94	70	130			
Uranium	0.0486	mg/L	0.00030	95	70	130			
Sample ID: R07070382-002F	Post Digestion Spike Duplicate				Run: SUB-C87452		08/02/07 02:00		
Thorium 232	0.0487	mg/L	0.0010	95	70	130	0.9	20	
Uranium	0.0488	mg/L	0.00030	95	70	130	0.4	20	
Method: E300.0							Batch: R30560		
Sample ID: LFB0707200709-3	Laboratory Fortified Blank				Run: DIONEX_070720A		07/20/07 17:57		
Chloride	4.8	mg/L	0.50	97	90	110			
Fluoride	2.0	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	97	90	110			
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707200709-4	Laboratory Fortified Blank				Run: DIONEX_070720A		07/20/07 18:14		
Chloride	4.7	mg/L	0.50	93	90	110			
Fluoride	1.9	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070315-002BMS	Sample Matrix Spike				Run: DIONEX_070720A		07/20/07 22:04		
Chloride	6.4	mg/L	0.50	96	80	120			
Fluoride	2.2	mg/L	0.10	104	80	120			
Nitrogen, Nitrate as N	3.0	mg/L	0.10	96	80	120			
Sulfate	760	mg/L	1.0		80	120			A
Sample ID: R07070315-002BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070720A		07/20/07 22:20		
Chloride	6.1	mg/L	0.50	88	80	120	6.1	10	
Fluoride	2.1	mg/L	0.10	100	80	120	4.1	10	
Nitrogen, Nitrate as N	2.9	mg/L	0.10	92	80	120	3.8	10	
Sulfate	760	mg/L	1.0		80	120	0.7	10	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R30670		
Sample ID: LFB0707252001-3	Laboratory Fortified Blank					Run: DIONEX_070725A	07/25/07 19:52		
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707252001-4	Laboratory Fortified Blank					Run: DIONEX_070725A	07/25/07 20:08		
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070315-001BMS	Sample Matrix Spike					Run: DIONEX_070725A	07/26/07 00:30		
Sulfate	1300	mg/L	14	77	80	120			S
Sample ID: R07070315-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070725A	07/26/07 00:45		
Sulfate	1300	mg/L	14	67	80	120	2.3	10	S
Method: E900.0							Batch: C_GrAB-0301		
Sample ID: RB-GrAB-0301	Method Blank					Run: SUB-C87669	08/03/07 23:46		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0301	Laboratory Control Sample					Run: SUB-C87669	08/03/07 23:47		
Gross Alpha	242	pCi/L	1.0	99	70	130			
Sample ID: C07070938-001BMS	Sample Matrix Spike					Run: SUB-C87669	08/03/07 23:47		
Gross Beta	92.9	pCi/L	2.0	88	70	130			
Sample ID: C07070938-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-C87669	08/03/07 23:47		
Gross Beta	93.9	pCi/L	2.0	89	70	130	1.1	15.4	
Sample ID: C07070971-005CDUP	Sample Duplicate					Run: SUB-C87669	08/05/07 00:09		
Gross Alpha	2.39	pCi/L	1.0				21	54.2	
Gross Beta	2.68	pCi/L	2.0				7.3	116.1	
Method: E903.0							Batch: C_RA226-2218		
Sample ID: C07071190-004DMS	Sample Matrix Spike					Run: SUB-C87474	08/01/07 16:13		
Radium 226	19	pCi/L	0.20	81	70	130			
Sample ID: C07071190-004DMSD	Sample Matrix Spike Duplicate					Run: SUB-C87474	08/01/07 16:13		
Radium 226	17	pCi/L	0.20	73	70	130	8.9	31.1	
Sample ID: MB-RA226-2218	Method Blank					Run: SUB-C87474	08/02/07 00:14		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2218	Laboratory Control Sample					Run: SUB-C87474	08/02/07 00:14		
Radium 226	13	pCi/L	0.20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: **RESPEC**
 Report Mail Address: **3824 Set Drive, Rapid City, SD 57703**
 Invoice Address: _____
 Report Required For: POT/WWTP DW Other _____
 Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC A2LA Level IV
 Other _____
 EDD/EDT Format _____

Project Name, PWS #, Permit #, Etc.: **PowerTech Dewey Burdock**
 Contact Name, Phone, Fax, E-mail: **Cory Foreman (605) 381-0024 Cory.Foreman@respec.com**
 Sampler Name if other than Contact: **Erik Krantz**
 Invoice Contact & Phone #: _____
 Purchase Order #: _____
 ELL Quote #: **R278 R28C**

Number of Containers	Sample Type: A W S V B O	Air Water Soils/Solids Vegetation Bioassay Other	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Comments:	RUSH Turnaround (TAT)	Normal Turnaround (TAT)	Received by:	Date/Time:
			Urgent/Thermin 230	Full SW Quote 280						
1	DewBurd Psc01		X	X		Sample Bottle set 2			Hand Delivered	7/30/07 8:58
2	DewBurd Psc02		X	X		Sample Bottle set 1			Hand Delivered	7/20/07 8:58
3										
4										
5										
6										
7										
8										
9										
10										

Relinquished by: **Cory Foreman** Date/Time: **7/30/07 8:58**
 Relinquished by: _____ Date/Time: _____
 Sample Disposal: _____ Return to client: _____ Lab Disposal: _____
 Sample Type: _____ # of fractions: _____

Custody Record MUST be Signed

Received by: _____ Date/Time: _____
 Received by: **Hand Delivered** Date/Time: **7/20/07 8:58**

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

September 03, 2007

Dan Hoyer
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701

Workorder No.: R07070382

Project Name: Edgemont


Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/25/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070382-001	DewBurd BVC01	07/24/07 14:20	07/25/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070382-002	DewBurd BVC04	07/24/07 15:30	07/25/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070382-001
 Client Sample ID: DewBurd BVC01

Report Date: 09/03/07
 Collection Date: 07/24/07 14:20
 Date Received: 07/25/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	68	CFU/100ml	D	2		2	A9222 D	07/25/07 14:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	134	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Bicarbonate as HCO3	163	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Calcium	68.4	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Chloride	101	mg/L		1.0		20	E300.0	07/25/07 21:40/jmh
Fluoride	0.70	mg/L		0.10		1	E300.0	07/25/07 21:56/jmh
Magnesium	29.5	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	07/25/07 21:56/jmh
Potassium	9.5	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Silica	2.7	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Sodium	213	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Sulfate	463	mg/L	D	14		20	E300.0	07/25/07 21:40/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1480	umhos/cm		5		1	A2510 B	07/31/07 18:05/jmh
pH	8.31	s.u.		0.01		1	A4500-H B	07/31/07 17:54/jmh
Solids, Suspended Sediment SSC @ 105 C	19	mg/L		5		1	D3977	07/26/07 15:31/jn
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	07/31/07 09:21/jn
Solids, Total Suspended TSS @ 105 C	27	mg/L		5		1	A2540 D	07/30/07 13:54/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:40/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/02/07 01:40/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/31/07 18:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/01/07 19:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/01/07 19:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
Iron	0.48	mg/L		0.03		1	E200.7	07/31/07 18:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070382-001
 Client Sample ID: DewBurd BVC01

Report Date: 09/03/07
 Collection Date: 07/24/07 14:20
 Date Received: 07/25/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/01/07 19:36/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/01/07 19:36/eli-c
Uranium	0.0040	mg/L		0.0003		1	E200.8	08/01/07 19:36/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.9	pCi/L		1.0		1	E900.0	08/10/07 21:23/eli-c
Gross Alpha precision (±)	0.9	pCi/L				1	E900.0	08/10/07 21:23/eli-c
Gross Beta	10.3	pCi/L		2.0		1	E900.0	08/10/07 21:23/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	08/10/07 21:23/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/06/07 14:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.715	%				1	A1030 E	08/15/07 14:44/ADM
Anions	15.2	meq/L				1	A1030 E	08/15/07 14:44/ADM
Cations	15.4	meq/L				1	A1030 E	08/15/07 14:44/ADM
Solids, Total Dissolved Calculated	967	mg/L				1	A1030 E	08/15/07 14:44/ADM
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	08/15/07 14:44/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070382-002
 Client Sample ID: DewBurd BVC04

Report Date: 09/03/07
 Collection Date: 07/24/07 15:30
 Date Received: 07/25/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	110	CFU/100ml	D	2		2	A9222 D	07/25/07 14:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Calcium	146	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Chloride	251	mg/L		1.0		20	E300.0	07/25/07 22:11/jmh
Fluoride	0.45	mg/L		0.10		1	E300.0	07/25/07 22:26/jmh
Magnesium	47.7	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	07/25/07 22:26/jmh
Potassium	10	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Silica	7.9	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Sodium	404	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Sulfate	859	mg/L	D	14		20	E300.0	07/25/07 22:11/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5		1	A2510 B	07/31/07 18:06/jmh
pH	7.72	s.u.		0.01		1	A4500-H B	07/31/07 17:55/jmh
Solids, Suspended Sediment SSC @ 105 C	111	mg/L		5		1	D3977	07/26/07 15:32/jn
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	07/31/07 09:21/jn
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	07/30/07 13:55/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:47/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	08/02/07 01:47/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/01/07 19:43/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/31/07 18:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/01/07 19:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/01/07 19:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/01/07 19:43/eli-c
Iron	1.34	mg/L		0.03		1	E200.7	07/31/07 18:22/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c
Manganese	0.51	mg/L		0.01		1	E200.8	08/01/07 19:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07070382-002
 Client Sample ID: DewBurd BVC04

Report Date: 09/03/07
 Collection Date: 07/24/07 15:30
 Date Received: 07/25/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL									
Molybdenum	ND	mg/L		0.1			1	E200.8	08/01/07 19:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	08/01/07 19:43/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	08/01/07 19:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	08/01/07 19:43/eli-c
Uranium	0.0073	mg/L		0.0003			1	E200.8	08/01/07 19:43/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	08/01/07 19:43/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	08/01/07 19:43/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	11.4	pCi/L		1.0			1	E900.0	08/11/07 09:40/eli-c
Gross Alpha precision (±)	2.1	pCi/L					1	E900.0	08/11/07 09:40/eli-c
Gross Beta	13.9	pCi/L		2.0			1	E900.0	08/11/07 09:40/eli-c
Gross Beta precision (±)	5.1	pCi/L					1	E900.0	08/11/07 09:40/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	08/06/07 15:52/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.79	%					1	A1030 E	08/15/07 14:45/ADM
Anions	26.6	meq/L					1	A1030 E	08/15/07 14:45/ADM
Cations	29.3	meq/L					1	A1030 E	08/15/07 14:45/ADM
Solids, Total Dissolved Calculated	1770	mg/L					1	A1030 E	08/15/07 14:45/ADM
TDS Balance (0.80 - 1.20)	1.03	dec. %					1	A1030 E	08/15/07 14:45/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 070801A-ALK-SEL-W		
Sample ID: MBLK1_070801A Alkalinity, Total as CaCO ₃	Method Blank ND	mg/L	3				Run: PH_COND1-R_070801A	08/01/07 09:34	
Sample ID: LCS1_070801A Alkalinity, Total as CaCO ₃	Laboratory Control Sample 992	mg/L	5.0	99	90	110	Run: PH_COND1-R_070801A	08/01/07 09:40	
Method: A2510 B							Batch: 070731_1_COND-PROBE-W		
Sample ID: LCS1-1_070731 Conductivity @ 25 C	Laboratory Control Sample 152	umhos/cm	5.0	101	90	110	Run: PH_COND2-R_070731A	07/31/07 18:01	
Sample ID: LCS2-1_070731 Conductivity @ 25 C	Laboratory Control Sample 4990	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070731A	07/31/07 18:01	
Sample ID: LCS_COND-1_070731 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070731A	07/31/07 18:02	
Sample ID: MBLK-1_070731 Conductivity @ 25 C	Method Blank ND	umhos/cm	5				Run: PH_COND2-R_070731A	07/31/07 18:03	
Sample ID: R07070382-002BDUP Conductivity @ 25 C	Sample Duplicate 2650	umhos/cm	5.0				Run: PH_COND2-R_070731A	07/31/07 18:07	0.4 10
Method: A2540 C							Batch: 070731A-SLDS-TDS-W		
Sample ID: MBLK1_070731A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3				Run: BAL-4-R_070731A	07/31/07 09:16	
Sample ID: LCS1_070731A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	102	90	110	Run: BAL-4-R_070731A	07/31/07 09:17	
Sample ID: R07070426-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 570	mg/L	5.0	102	80	120	Run: BAL-4-R_070731A	07/31/07 09:24	
Method: A2540 D							Batch: 070726A-SLDS-TSS-W		
Sample ID: MBLK1_070726A Solids, Total Suspended TSS @ 105 C	Method Blank ND	mg/L	2				Run: BAL-4-R_070730A	07/26/07 16:05	
Sample ID: LCS1_070726A Solids, Total Suspended TSS @ 105 C	Laboratory Control Sample 200	mg/L	5.0	99	85	115	Run: BAL-4-R_070730A	07/26/07 16:08	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 070731_1_PH-W		
Sample ID: LCS_pH-1_070731	Laboratory Control Sample					Run: PH_COND2-R_070731A	07/31/07 17:52		
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07070382-002BDUP	Sample Duplicate					Run: PH_COND2-R_070731A	07/31/07 17:56		
pH	7.69	s.u.	0.010				0.4	1.25	
Method: A9222 D							Batch: 070725-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank					Run: MEMFILT_070725A	07/25/07 14:20		
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Method: D3977							Batch: 070725A-SLDS-SSC-W		
Sample ID: MBLK1_070725A	Method Blank					Run: BAL-4-R_070725B	07/26/07 15:29		
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_15470		
Sample ID: MB-15470	Method Blank		Run: SUB-C87373				07/31/07 17:58		
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	ND	mg/L	0.08						
Silica	0.04	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Silicon as SiO2	0.04	mg/L	0.04						
Sample ID: LCS-15470	Laboratory Control Sample		Run: SUB-C87373				07/31/07 18:01		
Boron	0.480	mg/L	0.10	96	85	115			
Iron	0.486	mg/L	0.030	97	85	115			
Calcium	49.7	mg/L	0.50	99	85	115			
Magnesium	49.8	mg/L	0.50	100	85	115			
Potassium	47.6	mg/L	0.50	95	85	115			
Sodium	48.9	mg/L	0.50	97	85	115			
Sample ID: C07071301-001BMS	Sample Matrix Spike		Run: SUB-C87373				07/31/07 19:15		
Boron	0.537	mg/L	0.10	99	70	130			
Iron	3.09	mg/L	0.030		70	130			A
Calcium	96.2	mg/L	0.50	95	70	130			
Magnesium	69.0	mg/L	0.50	95	70	130			
Potassium	49.9	mg/L	0.50	96	70	130			
Silica	22.9	mg/L	0.10		70	130			A
Sodium	55.8	mg/L	0.50	96	70	130			
Sample ID: C07071301-001BMSD	Sample Matrix Spike Duplicate		Run: SUB-C87373				07/31/07 19:18		
Boron	0.550	mg/L	0.10	102	70	130	2.4	20	
Iron	3.16	mg/L	0.030		70	130	2.4	20	A
Calcium	97.9	mg/L	0.50	98	70	130	1.8	20	
Magnesium	70.2	mg/L	0.50	97	70	130	1.7	20	
Potassium	50.8	mg/L	0.50	98	70	130	1.7	20	
Silica	23.5	mg/L	0.10		70	130	2.6	20	A
Sodium	56.7	mg/L	0.50	98	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15470		
Sample ID: MB-15470	Method Blank		Run: SUB-C87452			08/01/07 18:42			
Arsenic	ND	mg/L	5E-05						
Barium	0.0002	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-15470	Laboratory Control Sample		Run: SUB-C87452			08/01/07 18:49			
Arsenic	0.021	mg/L	0.0010	104	80	120			
Barium	0.021	mg/L	0.10	105	80	120			
Cadmium	0.021	mg/L	0.010	103	80	120			
Chromium	0.020	mg/L	0.050	98	80	120			
Copper	0.020	mg/L	0.010	98	80	120			
Lead	0.021	mg/L	0.050	103	80	120			
Manganese	0.020	mg/L	0.010	102	80	120			
Mercury	0.00067	mg/L	0.0010	33	80	120			S
Molybdenum	0.021	mg/L	0.10	104	80	120			
Nickel	0.019	mg/L	0.050	96	80	120			
Selenium	0.10	mg/L	0.0010	103	80	120			
Silver	0.016	mg/L	0.010	81	80	120			
Thorium 232	0.019	mg/L	0.0010	97	80	120			
Uranium	0.020	mg/L	0.00030	102	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.020	mg/L	0.010	97	80	120			
Sample ID: LCS-15470	Laboratory Control Sample		Run: SUB-C87452			08/01/07 18:56			
Arsenic	0.49	mg/L	0.0010	98	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.49	mg/L	0.010	99	85	115			
Chromium	0.48	mg/L	0.050	96	85	115			
Copper	0.46	mg/L	0.010	93	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15470		
Sample ID: LCS-15470	Laboratory Control Sample			Run: SUB-C87452			08/01/07 18:56		
Lead	0.50	mg/L	0.050	99	85	115			
Manganese	0.49	mg/L	0.010	98	85	115			
Molybdenum	0.50	mg/L	0.10	100	85	115			
Nickel	0.47	mg/L	0.050	93	85	115			
Selenium	0.50	mg/L	0.0020	101	85	115			
Silver	0.20	mg/L	0.010	101	85	115			
Uranium	0.49	mg/L	0.00032	98	85	115			
Vanadium	0.48	mg/L	0.10	97	85	115			
Zinc	0.48	mg/L	0.010	96	85	115			
Sample ID: C07071301-001B MS4	Post Digestion Spike			Run: SUB-C87452			08/01/07 20:10		
Arsenic	0.070	mg/L	0.0010	100	70	130			
Barium	0.11	mg/L	0.10	99	70	130			
Cadmium	0.069	mg/L	0.010	99	70	130			
Chromium	0.065	mg/L	0.050	90	70	130			
Copper	0.066	mg/L	0.010	92	70	130			
Lead	0.070	mg/L	0.050	100	70	130			
Manganese	0.14	mg/L	0.010	97	70	130			
Mercury	0.0067	mg/L	0.0010	96	70	130			
Molybdenum	0.074	mg/L	0.10	104	70	130			
Nickel	0.065	mg/L	0.050	91	70	130			
Selenium	0.15	mg/L	0.0010	98	70	130			
Silver	0.032	mg/L	0.010	80	70	130			
Thorium 232	0.071	mg/L	0.0010	101	70	130			
Uranium	0.073	mg/L	0.00030	101	70	130			
Vanadium	0.067	mg/L	0.10	95	70	130			
Zinc	3.5	mg/L	0.010		70	130			A
Sample ID: C07071301-001B MSD4	Post Digestion Spike Duplicate			Run: SUB-C87452			08/01/07 20:44		
Arsenic	0.072	mg/L	0.0010	101	70	130	1.5	20	
Barium	0.11	mg/L	0.10	100	70	130	0.7	20	
Cadmium	0.070	mg/L	0.010	100	70	130	1.3	20	
Chromium	0.066	mg/L	0.050	90	70	130	0.8	20	
Copper	0.067	mg/L	0.010	94	70	130	2.0	20	
Lead	0.072	mg/L	0.050	103	70	130	2.6	20	
Manganese	0.14	mg/L	0.010	93	70	130	2.0	20	
Mercury	0.0069	mg/L	0.0010	99	70	130	2.9	20	
Molybdenum	0.074	mg/L	0.10	104	70	130	0.0	20	
Nickel	0.066	mg/L	0.050	92	70	130	1.1	20	
Selenium	0.15	mg/L	0.0010	102	70	130	4.3	20	
Silver	0.034	mg/L	0.010	85	70	130	6.6	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15470		
Sample ID: C07071301-001B MSD4	Post Digestion Spike Duplicate			Run: SUB-C87452			08/01/07 20:44		
Thorium 232	0.072	mg/L	0.0010	103	70	130	2.5	20	
Uranium	0.074	mg/L	0.00030	103	70	130	2.5	20	
Vanadium	0.068	mg/L	0.10	95	70	130	0.0	20	
Zinc	3.4	mg/L	0.010		70	130	3.0	20	A
Method: E200.8							Batch: C_15499		
Sample ID: MB-15499	Method Blank			Run: SUB-C87452			08/02/07 00:46		
Thorium 232	0.0004	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS-15499	Laboratory Control Sample			Run: SUB-C87452			08/02/07 00:53		
Uranium	0.0487	mg/L	0.00030	92	85	115			
Sample ID: R07070382-002F	Post Digestion Spike			Run: SUB-C87452			08/02/07 01:53		
Thorium 232	0.0483	mg/L	0.0010	94	70	130			
Uranium	0.0486	mg/L	0.00030	95	70	130			
Sample ID: R07070382-002F	Post Digestion Spike Duplicate			Run: SUB-C87452			08/02/07 02:00		
Thorium 232	0.0487	mg/L	0.0010	95	70	130	0.9	20	
Uranium	0.0488	mg/L	0.00030	95	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R30670		
Sample ID: LFB0707252001-3	Laboratory Fortified Blank			Run: DIONEX_070725A			07/25/07 19:52		
Chloride	4.8	mg/L	0.50	96	90	110			
Fluoride	2.0	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	96	90	110			
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707252001-4	Laboratory Fortified Blank			Run: DIONEX_070725A			07/25/07 20:08		
Chloride	4.7	mg/L	0.50	94	90	110			
Fluoride	1.8	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070342-001AMS	Sample Matrix Spike			Run: DIONEX_070725A			07/25/07 20:39		
Chloride	9.8	mg/L	0.50	95	80	120			
Fluoride	2.5	mg/L	0.10	101	80	120			
Nitrogen, Nitrate as N	2.6	mg/L	0.10	93	80	120			
Sulfate	34	mg/L	1.0	82	80	120			
Sample ID: R07070342-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_070725A			07/25/07 20:54		
Chloride	9.5	mg/L	0.50	88	80	120	3.4	10	
Fluoride	2.4	mg/L	0.10	99	80	120	1.6	10	
Nitrogen, Nitrate as N	2.6	mg/L	0.10	91	80	120	1.9	10	
Sulfate	33	mg/L	1.0	80	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/03/07
 Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0305		
Sample ID: RB-GrAB-0305	Method Blank								Run: SUB-C88002 08/10/07 02:27
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0305	Laboratory Control Sample								Run: SUB-C88002 08/10/07 02:27
Gross Alpha	240	pCi/L	1.0	98	70	130			
Sample ID: Cs137-GrAB-0305	Laboratory Control Sample								Run: SUB-C88002 08/10/07 02:27
Gross Beta	97.1	pCi/L	2.0	101	70	130			
Sample ID: C07071137-001AMS	Sample Matrix Spike								Run: SUB-C88002 08/10/07 02:27
Gross Alpha	474	pCi/L	1.0	76	70	130			
Sample ID: C07071137-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C88002 08/10/07 02:26
Gross Alpha	489	pCi/L	1.0	78	70	130	3.0	13	
Sample ID: C07071137-001AMS	Sample Matrix Spike								Run: SUB-C88002 08/10/07 02:26
Gross Beta	224	pCi/L	2.0	90	70	130			
Sample ID: C07071137-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C88002 08/10/07 02:26
Gross Beta	222	pCi/L	2.0	90	70	130	0.5	15.9	
Sample ID: R07070382-001E	Sample Duplicate								Run: SUB-C88002 08/10/07 21:23
Gross Alpha	6.92	pCi/L	1.0				16	38	
Gross Alpha precision (±)	0.910	pCi/L							
Gross Beta	9.92	pCi/L	2.0				4.2	54.2	
Gross Beta precision (±)	2.24	pCi/L							
Method: E903.0							Batch: C_RA226-2225		
Sample ID: C07071301-002AMS	Sample Matrix Spike								Run: SUB-C87778 08/06/07 18:54
Radium 226	15.7	pCi/L	0.20	71	70	130			
Sample ID: C07071301-002AMSD	Sample Matrix Spike Duplicate								Run: SUB-C87778 08/06/07 19:54
Radium 226	18.8	pCi/L	0.20	86	70	130	18	31.4	
Sample ID: MB-RA226-2225	Method Blank								Run: SUB-C87778 08/06/07 22:56
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2225	Laboratory Control Sample								Run: SUB-C87778 08/07/07 00:57
Radium 226	11	pCi/L	0.20	84	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: **RESPEC**
 Report Mail Address: **3824 Jet Dr. Rapid City, SD 57703**
 Invoice Address: _____

Project Name, PWS #, Permit #, Etc.: **PowerTech Dewey Burdock**
 Contact Name, Phone, Fax, E-mail: **Cory Foreman 605.381.0024 cory.foreman@respec.com**
 Sampler Name if other than Contact: _____

Report Required For: POTW/WWTP DW Other _____
 Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC AZLA Level IV Other _____
 EDD/EDT Format _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Matrix		Number of Containers	Sample Type: A W S V B O	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Purchase Order #:	ELI Quote #:	Receipt Temp Cooler ID(s)
			Air Water Soils/Solids Vegetation	Biossay Other			Normal Turnaround (TAT)	RUSH Turnaround (TAT)				
1 Dew Burd BVLC01	7/24/07	14:20			X	W	X	SEE ATTACHED			R278	12.8 °C ice
2 Dew Burd BVLC02-04	7/24/07	15:30			X	W	X	SEE ATTACHED			R286	
3												
4												
5												
6												
7												
8												
9												
10												

Received by: **Cory Foreman** Date/Time: **7/25/07 7:15**
 Relinquished by: **Cory Foreman** Date/Time: **7/25/07 12:25**
 Shipped by: _____ Date/Time: _____
 Shipped by: _____ Date/Time: _____

Sample Disposal: _____ Lab Disposal: _____
 Return to client: _____ Lab Disposal: _____
 Sample Type: _____ # of fractions: _____

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

September 11, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07080019

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 8/1/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07080019-001	DewBurd CHR01	07/31/07 14:35	08/01/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07080019-002	DewBurd CHR05	07/31/07 15:10	08/01/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080019-001
 Client Sample ID: DewBurd CHR01

Report Date: 09/11/07
 Collection Date: 07/31/07 14:35
 Date Received: 08/01/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	8	CFU/100ml	D	2			2	A9222 D	08/01/07 17:00/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	310	mg/L		5			1	A2320 B	08/03/07 16:53/jn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	08/03/07 16:53/jn
Bicarbonate as HCO3	378	mg/L		5			1	A2320 B	08/03/07 16:53/jn
Calcium	366	mg/L		0.5			10	E200.7	08/19/07 21:30/eli-c
Chloride	125	mg/L		1			20	E300.0	08/02/07 20:34/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	08/02/07 21:26/jmh
Magnesium	188	mg/L		0.5			10	E200.7	08/19/07 21:30/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	08/02/07 21:26/jmh
Potassium	19.0	mg/L		0.5			1	E200.7	08/14/07 19:10/eli-c
Silica	7.2	mg/L		0.5			1	E200.7	08/14/07 19:10/eli-c
Sodium	1140	mg/L		0.5			10	E200.7	08/19/07 21:30/eli-c
Sulfate	3550	mg/L	D	36			50	E300.0	08/06/07 10:15/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	6580	umhos/cm		5			1	A2510 B	08/06/07 14:16/jmh
pH	7.83	s.u.		0.01			1	A4500-H B	08/06/07 14:02/jmh
Solids, Suspended Sediment SSC @ 105 C	53	mg/L		5			1	D3977	08/07/07 11:03/jn
Solids, Total Dissolved TDS @ 180 C	5900	mg/L		5			1	A2540 C	08/07/07 09:17/jn
Solids, Total Suspended TSS @ 105 C	54	mg/L		5			1	A2540 D	08/06/07 13:45/jn
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			10	E200.8	08/16/07 17:18/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	08/16/07 17:18/eli-c
METALS - TOTAL									
Arsenic	0.001	mg/L		0.001			1	E200.8	08/10/07 22:02/eli-c
Barium	ND	mg/L		0.1			1	E200.8	08/10/07 22:02/eli-c
Boron	0.4	mg/L		0.1			1	E200.7	08/14/07 19:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	08/10/07 22:02/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	08/10/07 22:02/eli-c
Copper	ND	mg/L		0.01			1	E200.8	08/10/07 22:02/eli-c
Iron	0.15	mg/L		0.03			1	E200.7	08/14/07 19:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	08/10/07 22:02/eli-c
Manganese	1.13	mg/L		0.01			1	E200.8	08/10/07 22:02/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	08/10/07 22:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080019-001
 Client Sample ID: DewBurd CHR01

Report Date: 09/11/07
 Collection Date: 07/31/07 14:35
 Date Received: 08/01/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/10/07 22:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/10/07 22:02/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	08/10/07 22:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/10/07 22:02/eli-c
Uranium	0.0223	mg/L		0.0003		1	E200.8	08/10/07 22:02/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/10/07 22:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/10/07 22:02/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.9	pCi/L		1.0		1	E900.0	08/17/07 00:38/eli-c
Gross Alpha precision (±)	4.6	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Gross Beta	21.9	pCi/L		2.0		1	E900.0	08/17/07 00:38/eli-c
Gross Beta precision (±)	13.3	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/14/07 10:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.0317	%				1	A1030 E	09/10/07 14:02/ADM
Anions	83.7	meq/L				1	A1030 E	09/10/07 14:02/ADM
Cations	83.8	meq/L				1	A1030 E	09/10/07 14:02/ADM
Solids, Total Dissolved Calculated	5590	mg/L				1	A1030 E	09/10/07 14:02/ADM
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	09/10/07 14:02/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080019-002
 Client Sample ID: DewBurd CHR05

Report Date: 09/11/07
 Collection Date: 07/31/07 15:10
 Date Received: 08/01/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	180	CFU/100ml	D	2		2	A9222 D	08/01/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Calcium	311	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Chloride	386	mg/L	D	2.0		50	E300.0	08/06/07 10:33/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	08/02/07 22:01/jmh
Magnesium	168	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/02/07 22:01/jmh
Potassium	13.3	mg/L		0.5		1	E200.7	08/14/07 19:14/eli-c
Silica	7.4	mg/L		0.5		1	E200.7	08/14/07 19:14/eli-c
Sodium	678	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Sulfate	2030	mg/L	D	36		50	E300.0	08/06/07 10:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4980	umhos/cm		5		1	A2510 B	08/06/07 14:18/jmh
pH	7.98	s.u.		0.01		1	A4500-H B	08/06/07 14:05/jmh
Solids, Suspended Sediment SSC @ 105 C	7	mg/L		5		1	D3977	08/07/07 11:04/jn
Solids, Total Dissolved TDS @ 180 C	4100	mg/L		5		1	A2540 C	08/07/07 09:17/jn
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	08/06/07 13:46/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	08/16/07 18:06/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	08/16/07 18:06/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/10/07 22:36/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	08/14/07 19:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/10/07 22:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/10/07 22:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/10/07 22:36/eli-c
Iron	0.09	mg/L		0.03		1	E200.7	08/14/07 19:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	08/10/07 22:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080019-002
 Client Sample ID: DewBurd CHR05

Report Date: 09/11/07
 Collection Date: 07/31/07 15:10
 Date Received: 08/01/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL									
Molybdenum	ND	mg/L		0.1			1	E200.8	08/10/07 22:36/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	08/10/07 22:36/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	08/10/07 22:36/eli-c
Silver	ND	mg/L		0.005			1	E200.8	08/10/07 22:36/eli-c
Uranium	0.0110	mg/L		0.0003			1	E200.8	08/10/07 22:36/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	08/10/07 22:36/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	08/10/07 22:36/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	16.7	pCi/L		1.0			1	E900.0	08/17/07 00:38/eli-c
Gross Alpha precision (±)	4.8	pCi/L					1	E900.0	08/17/07 00:38/eli-c
Gross Beta	18.7	pCi/L		2.0			1	E900.0	08/17/07 00:38/eli-c
Gross Beta precision (±)	13.2	pCi/L					1	E900.0	08/17/07 00:38/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	08/14/07 10:25/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.77	%					1	A1030 E	09/10/07 14:02/ADM
Anions	57.1	meq/L					1	A1030 E	09/10/07 14:02/ADM
Cations	59.2	meq/L					1	A1030 E	09/10/07 14:02/ADM
Solids, Total Dissolved Calculated	3710	mg/L					1	A1030 E	09/10/07 14:02/ADM
TDS Balance (0.80 - 1.20)	1.10	dec. %					1	A1030 E	09/10/07 14:02/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 070803A-ALK-SEL-W		
Sample ID: MBLK1_070803A Alkalinity, Total as CaCO ₃	Method Blank ND	mg/L	3			Run: PH_COND1-R_070803A			08/03/07 16:40
Sample ID: LCS1_070803A Alkalinity, Total as CaCO ₃	Laboratory Control Sample 988	mg/L	5.0	99	90	110			08/03/07 16:42
Method: A2510 B							Batch: 070806_1_COND-PROBE-W		
Sample ID: LCS1-1_070806 Conductivity @ 25 C	Laboratory Control Sample 152	umhos/cm	5.0	101	90	110			08/06/07 14:12
Sample ID: LCS2-1_070806 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			08/06/07 14:13
Sample ID: LCS_COND-1_070806 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			08/06/07 14:13
Sample ID: MBLK-1_070806 Conductivity @ 25 C	Method Blank ND	umhos/cm	5			Run: PH_COND2-R_070806A			08/06/07 14:14
Sample ID: R07080019-001BDUP Conductivity @ 25 C	Sample Duplicate 6600	umhos/cm	5.0			Run: PH_COND2-R_070806A	0.3	10	08/06/07 14:17
Method: A2540 C							Batch: 070806A-SLDS-TDS-W		
Sample ID: MBLK1_070806A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3			Run: BAL-4-R_070806B			08/07/07 09:10
Sample ID: LCS1_070806A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	107	90	110			08/07/07 09:11
Sample ID: R07080021-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 440	mg/L	5.0	99	80	120			08/07/07 09:19
Method: A2540 D							Batch: 070806A-SLDS-TSS-W		
Sample ID: MBLK1_070806A Solids, Total Suspended TSS @ 105 C	Method Blank ND	mg/L	2			Run: BAL-4-R_070806A			08/06/07 11:35
Sample ID: LCS1_070806A Solids, Total Suspended TSS @ 105 C	Laboratory Control Sample 180	mg/L	5.0	92	85	115			08/06/07 11:36

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 070806_1_PH-W		
Sample ID: LCS_pH-1_070806	Laboratory Control Sample				Run: PH_COND2-R_070806A		08/06/07 14:00		
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07080019-001BDUP	Sample Duplicate				Run: PH_COND2-R_070806A		08/06/07 14:02		
pH	7.82	s.u.	0.010				0.1	1.25	
Method: A9222 D							Batch: 070801-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank				Run: MEMFILT_070801A		08/01/07 17:00		
Bacteria, Fecal Coliform	ND	CFU/100ml		1					
Sample ID: R07080002-004B	Sample Duplicate				Run: MEMFILT_070801A		08/01/07 17:00		
Bacteria, Fecal Coliform	ND	CFU/100ml		2.0			0.0	10	
Method: D3977							Batch: 070802A-SLDS-SSC-W		
Sample ID: MBLK1_070802A	Method Blank				Run: BAL-4-R_070802A		08/02/07 14:53		
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_15569		
Sample ID: MB-15569	Method Blank			Run: SUB-C88181			08/14/07 18:54		
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	0.2	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Silicon as SiO2	ND	mg/L	0.04						
Sample ID: R07080019-002D	Sample Matrix Spike			Run: SUB-C88181			08/14/07 19:17		
Boron	0.786	mg/L	0.10	83	70	130			
Iron	0.521	mg/L	0.030	86	70	130			
Calcium	327	mg/L	0.50		70	130			A
Potassium	140	mg/L	0.50	91	70	130			
Silica	7.31	mg/L	0.10		70	130			A
Sodium	699	mg/L	0.50		70	130			A
Sample ID: R07080019-002D	Sample Matrix Spike Duplicate			Run: SUB-C88181			08/14/07 19:21		
Boron	0.788	mg/L	0.10	83	70	130	0.3	20	
Iron	0.512	mg/L	0.030	84	70	130	1.7	20	
Calcium	329	mg/L	0.50		70	130	0.5	20	A
Potassium	139	mg/L	0.50	90	70	130	0.7	20	
Silica	7.35	mg/L	0.10		70	130	0.5	20	A
Sodium	697	mg/L	0.50		70	130	0.3	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15569		
Sample ID: MB-15569	Method Blank		Run: SUB-C87963				08/10/07 20:08		
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	0.0001	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: LCS1-15569	Laboratory Control Sample		Run: SUB-C87963				08/10/07 20:15		
Arsenic	0.0201	mg/L	0.0010	101	80	120			
Barium	0.0212	mg/L	0.10	106	80	120			
Cadmium	0.0208	mg/L	0.010	104	80	120			
Chromium	0.0201	mg/L	0.050	100	80	120			
Copper	0.0204	mg/L	0.010	102	80	120			
Lead	0.0205	mg/L	0.050	103	80	120			
Manganese	0.0202	mg/L	0.010	101	80	120			
Molybdenum	0.0211	mg/L	0.10	106	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Selenium	0.103	mg/L	0.0010	103	80	120			
Silver	0.0189	mg/L	0.010	94	80	120			
Thorium 232	0.0192	mg/L	0.0010	96	80	120			
Uranium	0.0201	mg/L	0.00030	101	80	120			
Vanadium	0.0199	mg/L	0.10	100	80	120			
Zinc	0.0219	mg/L	0.010	105	80	120			
Sample ID: LCS-15569	Laboratory Control Sample		Run: SUB-C87963				08/10/07 20:21		
Arsenic	0.480	mg/L	0.0010	96	85	115			
Barium	0.469	mg/L	0.10	94	85	115			
Cadmium	0.470	mg/L	0.010	94	85	115			
Chromium	0.464	mg/L	0.050	93	85	115			
Copper	0.460	mg/L	0.010	92	85	115			
Lead	0.471	mg/L	0.050	94	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15569		
Sample ID: LCS-15569	Laboratory Control Sample			Run: SUB-C87963			08/10/07 20:21		
Manganese	0.467	mg/L	0.010	93	85	115			
Molybdenum	0.478	mg/L	0.10	96	85	115			
Nickel	0.469	mg/L	0.050	94	85	115			
Selenium	0.488	mg/L	0.0020	98	85	115			
Silver	0.201	mg/L	0.010	101	85	115			
Uranium	0.464	mg/L	0.00032	93	85	115			
Vanadium	0.466	mg/L	0.10	93	85	115			
Zinc	0.487	mg/L	0.010	97	85	115			
Sample ID: C07080271-001AMS5	Pre-Digestion Spike			Run: SUB-C87963			08/10/07 22:50		
Arsenic	0.0203	mg/L	0.0010	97	70	130			
Barium	0.119	mg/L	0.10		70	130			A
Cadmium	0.0194	mg/L	0.010	96	70	130			
Chromium	0.0202	mg/L	0.050	95	70	130			
Copper	0.130	mg/L	0.010		70	130			A
Lead	0.0204	mg/L	0.050	98	70	130			
Manganese	0.0518	mg/L	0.010	90	70	130			
Mercury	0.00507	mg/L	0.0010		70	130			A
Molybdenum	0.0376	mg/L	0.10	99	70	130			
Nickel	0.0217	mg/L	0.050	94	70	130			
Selenium	0.0953	mg/L	0.0010	95	70	130			
Uranium	0.0204	mg/L	0.00030	97	70	130			
Vanadium	0.0203	mg/L	0.10	94	70	130			
Zinc	0.0456	mg/L	0.010	96	70	130			
Sample ID: C07080271-001AMSD5	Pre-Digestion Spike Duplicate			Run: SUB-C87963			08/10/07 22:56		
Arsenic	0.0214	mg/L	0.0010	103	70	130	5.2	20	
Barium	0.124	mg/L	0.10		70	130	4.6	20	A
Cadmium	0.0204	mg/L	0.010	101	70	130	5.2	20	
Chromium	0.0210	mg/L	0.050	99	70	130	0.0	20	
Copper	0.137	mg/L	0.010		70	130	5.7	20	A
Lead	0.0215	mg/L	0.050	103	70	130	0.0	20	
Manganese	0.0542	mg/L	0.010	102	70	130	4.4	20	
Mercury	0.00546	mg/L	0.0010		70	130	7.5	20	A
Molybdenum	0.0398	mg/L	0.10	110	70	130	0.0	20	
Nickel	0.0226	mg/L	0.050	98	70	130	0.0	20	
Selenium	0.0994	mg/L	0.0010	99	70	130	4.2	20	
Uranium	0.0216	mg/L	0.00030	103	70	130	5.8	20	
Vanadium	0.0211	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0479	mg/L	0.010	108	70	130	5.0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15600		
Sample ID: MB-15600	Method Blank				Run: SUB-C88321		08/16/07 16:51		
Thorium 232	0.001	mg/L	1E-06						
Uranium	5E-05	mg/L							
Sample ID: LCS1-15600	Laboratory Control Sample				Run: SUB-C88321		08/16/07 16:58		
Thorium 232	0.0203	mg/L	0.0010	96	80	120			
Uranium	0.0211	mg/L	0.00030	105	80	120			
Sample ID: LCS-15600	Laboratory Control Sample				Run: SUB-C88321		08/16/07 17:12		
Thorium 232	0.535	mg/L	0.0010	107	80	120			
Uranium	0.531	mg/L	0.00030	106	80	120			
Sample ID: R07080019-001F	Post Digestion Spike				Run: SUB-C88321		08/16/07 17:25		
Thorium 232	0.0132	mg/L	0.0010	101	70	130			
Uranium	0.0131	mg/L	0.00030	103	70	130			
Sample ID: R07080019-001F	Post Digestion Spike Duplicate				Run: SUB-C88321		08/16/07 17:32		
Thorium 232	0.0133	mg/L	0.0010	101	70	130	0.7	20	
Uranium	0.0132	mg/L	0.00030	104	70	130	0.4	20	
Method: E300.0							Batch: R30784		
Sample ID: LFB0708023337-3	Laboratory Fortified Blank				Run: DIONEX_070802A		08/02/07 19:59		
Chloride	4.7	mg/L	0.50	95	90	110			
Fluoride	1.9	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	96	90	110			
Sample ID: LFB0708023337-4	Laboratory Fortified Blank				Run: DIONEX_070802A		08/02/07 20:16		
Chloride	4.7	mg/L	0.50	94	90	110			
Fluoride	1.9	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sample ID: R07080019-001BMS	Sample Matrix Spike				Run: DIONEX_070802A		08/02/07 20:51		
Chloride	210	mg/L	0.80	83	80	120			
Fluoride	39	mg/L	1.3	90	80	120			
Nitrogen, Nitrate as N	48	mg/L	0.34	96	80	120			
Sample ID: R07080019-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070802A		08/02/07 21:09		
Chloride	210	mg/L	0.80	83	80	120	0.2	10	
Fluoride	38	mg/L	1.3	89	80	120	1.3	10	
Nitrogen, Nitrate as N	47	mg/L	0.34	94	80	120	2.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R30805		
Sample ID: LFB0708035817-3	Laboratory Fortified Blank					Run: DIONEX_070803A	08/05/07 17:32		
Chloride	4.7	mg/L	0.50	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07080044-001BMS	Sample Matrix Spike					Run: DIONEX_070803A	08/06/07 08:48		
Chloride	8.7	mg/L	0.50	79	80	120			S
Sulfate	45	mg/L	1.0	72	80	120			S
Sample ID: R07080044-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070803A	08/06/07 09:05		
Chloride	8.7	mg/L	0.50	80	80	120	0.3	10	
Sulfate	45	mg/L	1.0	73	80	120	0.2	10	S
Method: E900.0							Batch: C_GrAB-0309		
Sample ID: RB-GrAB-0309	Method Blank					Run: SUB-C88332	08/16/07 12:20		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0309	Laboratory Control Sample					Run: SUB-C88332	08/16/07 12:20		
Gross Alpha	247	pCi/L	1.0	101	70	130			
Sample ID: C07080186-001BMS	Sample Matrix Spike					Run: SUB-C88332	08/16/07 12:20		
Gross Alpha	196	pCi/L	1.0	79	70	130			
Sample ID: C07080186-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-C88332	08/16/07 12:20		
Gross Alpha	191	pCi/L	1.0	77	70	130	2.4	13.2	
Sample ID: C07080503-001ADUP	Sample Duplicate					Run: SUB-C88332	08/17/07 00:38		
Gross Alpha	5.58	pCi/L	1.0				26	37.8	
Gross Beta	3.71	pCi/L	2.0				2.3	84	
Sample ID: Cs137-GrAB-0309	Laboratory Control Sample					Run: SUB-C88332	08/16/07 12:20		
Gross Beta	89.4	pCi/L	2.0	93	70	130			
Sample ID: C07080186-001BMS	Sample Matrix Spike					Run: SUB-C88332	08/16/07 12:20		
Gross Beta	94.7	pCi/L	2.0	95	70	130			
Sample ID: C07080186-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-C88332	08/16/07 12:20		
Gross Beta	97.7	pCi/L	2.0	98	70	130	3.1	15.2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2248
Sample ID: MB-RA226-2248	Method Blank								Run: SUB-C88123 08/14/07 10:25
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2248	Laboratory Control Sample								Run: SUB-C88123 08/14/07 10:25
Radium 226	14	pCi/L	0.20	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Sample R07080019-001B not reported to LIMS

SAMPLE ID: R07080019-001B

8/30/2007

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	125	3.53
Ca	366	18.24	SO4	3550	74.00
Mg	188	15.48	T. Alkalinity	310	6.19
K	19	0.49	HCO3	378	
Na	1140	49.50	CO3	<1	
Al	<1	0.01			
Fe	<1	0.01			
Mn	1	0.08			
Hardness (as CaCO3)	1690		OH		
Hardness, grains/gal.	98.7		NO3	<0.1	0.00
NH4+			PO4		
Si	3.4		F	0.3	0.02
			CN		
			Br	<0.1	0.00
	Total Cations	83.80	Total Anions	83.74	

BALANCE, (± 5%) 0.03
BALANCE, "sigma" -0.04

	Measured	Calculated		Salinity
Sample pH	7.8		Cl as NaCl	206
Conductivity (umho/cm)		6190	Carbonate Hardness	310
TDS	5910	5590	Non-carbonate Hardness	1377
TDS Ratio	1.06		Free CO2	
Resistivity (RW - ohm-m)			Total CO2	
			SAR	12.05
Estimated Ionic Strength (from TDS)	0.1478		Langlier Saturation Index	1.1
			Ryznar Index	5.69
			Aggressive Index	13.28
			Temp	20

Very hard water.

SAMPLE ID: R07080019-001B

BALANCE, (± 5%) 0.03

Sample R07080019-002B not reported to LIMS

SAMPLE ID: R07080019-002B

8/30/2007

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	386	10.90
Ca	311	15.54	SO4	2030	42.20
Mg	168	13.80	T. Alkalinity	200	4.00
K	13	0.34	HCO3	244	
Na	678	29.49	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	1470		OH		
Hardness, grains/gal.	85.9		NO3	<0.1	0.00
NH4+			PO4		
Si	3.4		F	0.5	0.03
			CN		
			Br	<0.1	0.00
	Total Cations	59.18	Total Anions	57.12	

BALANCE, (± 5%) 1.77
BALANCE, "sigma" -2.08

	Measured	Calculated		Salinity
Sample pH	8.0		Cl as NaCl	637
Conductivity (umho/cm)		4540	Carbonate Hardness	200
TDS	4070	3710	Non-carbonate Hardness	1268
TDS Ratio		1.1	Free CO2	
Resistivity (RW - ohm-m)			Total CO2	
			SAR	7.70
Estimated Ionic Strength (from TDS)	0.1018		Langlier Saturation Index	1.0
			Ryznar Index	5.95
			Aggressive Index	13.17
			Temp	20

Very hard water.

SAMPLE ID: R07080019-002B

BALANCE, (± 5%) 1.77



Chain of Custody and Analytical Request Record

Page of

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC Report Mail Address: 3824 Jet Drive Rapid City, SD 57703	Project Name, PWS #, Permit #, Etc.: Power Tech Dewey-Burdock Contact Name, Phone, Fax, E-mail: Colt Foreman (605) 381-0024	Invoice Contact & Phone #: Purchase Order #: ELL Quote #: R278 R284	Shipped by: Cooler ID(s) Receipt Temp 07 Custody Seal YN Intact YN Signature YN Match YN Lab ID
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/> Other _____ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ EDD/EDT <input type="checkbox"/> Format _____		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: Shipped by: Cooler ID(s)	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT) RUSH Turnaround (TAT)	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Collection Date Collection Time		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: Shipped by: Cooler ID(s)	
1 DewBurd CHR01 7/31/07 14:35		Sample Bottle Sp# 0780019-001	
2 DewBurd CHR05 7/31/07 15:10		Sample Bottle Sp# 002	
3 4 5 6 7 8 9 10		LABORATORY USE ONLY RUSH Turnaround (TAT) Normal Turnaround (TAT)	
Custody Record MUST be Signed		Received by (print): RT Fischer Date/Time: 8/01/07 8:04 Received by (print): Lindalarsen Date/Time: 8/1/07 8:04	
Sample Disposal: Return to client: Lab Disposal:		Signature: RT Fischer Date/Time: 8/01/07 8:04 Lindalarsen Date/Time: 8/1/07 8:04	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

September 11, 2007

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07080273

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 8/21/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07080273-001	DewBurd BVC01	08/20/07 17:07	08/21/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07080273-002	DewBurd BVC04	08/20/07 16:08	08/21/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080273-001
 Client Sample ID: DewBurd BVC01

Report Date: 09/11/07
 Collection Date: 08/20/07 17:07
 Date Received: 08/21/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	2500	CFU/100ml	D	100			100	A9222 D	08/21/07 16:15/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	112	mg/L		5			1	A2320 B	09/01/07 14:22/jn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	09/01/07 14:22/jn
Bicarbonate as HCO3	137	mg/L		5			1	A2320 B	09/01/07 14:22/jn
Calcium	73.0	mg/L		0.5			1	E200.7	08/30/07 18:16/eli-c
Chloride	158	mg/L		1			20	E300.0	08/24/07 06:58/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	08/21/07 23:39/jmh
Magnesium	27.8	mg/L		0.5			1	E200.7	08/30/07 18:16/eli-c
Nitrogen, Nitrate as N	0.1	mg/L		0.1			1	E300.0	08/21/07 23:39/jmh
Potassium	11.4	mg/L		0.5			1	E200.7	08/30/07 18:16/eli-c
Silica	6.2	mg/L		0.5			1	E200.7	08/30/07 18:16/eli-c
Sodium	263	mg/L		0.5			1	E200.7	08/30/07 18:16/eli-c
Sulfate	511	mg/L	D	10			20	E300.0	08/24/07 06:58/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1660	umhos/cm		5			1	A2510 B	08/24/07 10:16/jmh
pH	8.80	s.u.		0.01			1	A4500-H B	08/24/07 09:58/jmh
Solids, Suspended Sediment SSC @ 105 C	47	mg/L		5			1	D3977	08/30/07 09:35/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5			1	A2540 C	08/25/07 16:54/jmh
Solids, Total Suspended TSS @ 105 C	51	mg/L		5			1	A2540 D	08/24/07 12:18/jn
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			10	E200.8	09/01/07 23:59/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	09/01/07 23:59/eli-c
METALS - TOTAL									
Arsenic	0.002	mg/L		0.001			1	E200.8	09/02/07 01:33/eli-c
Barium	ND	mg/L		0.1			1	E200.8	09/02/07 01:33/eli-c
Boron	0.2	mg/L		0.1			1	E200.7	08/30/07 18:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/02/07 01:33/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	09/02/07 01:33/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/02/07 01:33/eli-c
Iron	0.66	mg/L		0.03			1	E200.7	08/30/07 18:16/eli-c
Lead	0.001	mg/L		0.001			1	E200.8	09/02/07 01:33/eli-c
Manganese	0.11	mg/L		0.01			1	E200.8	09/02/07 01:33/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/02/07 01:33/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-001
Client Sample ID: DewBurd BVC01

Report Date: 09/11/07
Collection Date: 08/20/07 17:07
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
METALS - TOTAL									
Molybdenum	ND	mg/L		0.1			1	E200.8	09/02/07 01:33/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	09/02/07 01:33/eli-c
Selenium	0.003	mg/L		0.001			1	E200.8	09/02/07 01:33/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/02/07 01:33/eli-c
Uranium	0.0046	mg/L		0.0003			1	E200.8	09/02/07 01:33/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	09/02/07 01:33/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	09/02/07 01:33/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	7.1	pCi/L		1.0			1	E900.0	09/02/07 23:51/eli-c
Gross Alpha precision (±)	1.2	pCi/L					1	E900.0	09/02/07 23:51/eli-c
Gross Beta	14.7	pCi/L		2.0			1	E900.0	09/02/07 23:51/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	09/02/07 23:51/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	09/04/07 14:06/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.06	%					1	A1030 E	09/10/07 14:03/ADM
Anions	17.4	meq/L					1	A1030 E	09/10/07 14:03/ADM
Cations	17.8	meq/L					1	A1030 E	09/10/07 14:03/ADM
Solids, Total Dissolved Calculated	1120	mg/L					1	A1030 E	09/10/07 14:03/ADM
TDS Balance (0.80 - 1.20)	0.960	dec. %					1	A1030 E	09/10/07 14:03/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07080273-002
 Client Sample ID: DewBurd BVC04

Report Date: 09/11/07
 Collection Date: 08/20/07 16:08
 Date Received: 08/21/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	350	CFU/100ml	D	10		10	A9222 D	08/21/07 16:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	106	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Bicarbonate as HCO3	129	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Calcium	77.8	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Chloride	118	mg/L		1		10	E300.0	08/24/07 07:14/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/22/07 00:25/jmh
Magnesium	24.8	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	08/22/07 00:25/jmh
Potassium	10.1	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Silica	15.5	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Sodium	194	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Sulfate	436	mg/L	D	7		10	E300.0	08/24/07 07:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1400	umhos/cm		5		1	A2510 B	08/24/07 10:17/jmh
pH	8.48	s.u.		0.01		1	A4500-H B	08/24/07 09:59/jmh
Solids, Suspended Sediment SSC @ 105 C	156	mg/L		5		1	D3977	08/30/07 09:36/jn
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	08/25/07 16:54/jmh
Solids, Total Suspended TSS @ 105 C	160	mg/L		5		1	A2540 D	08/24/07 12:18/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	09/02/07 00:06/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	09/02/07 00:06/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/30/07 18:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/02/07 01:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/02/07 01:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
Iron	2.48	mg/L		0.03		1	E200.7	08/30/07 18:20/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-002
Client Sample ID: DewBurd BVC04

Report Date: 09/11/07
Collection Date: 08/20/07 16:08
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/02/07 01:40/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/02/07 01:40/eli-c
Uranium	0.0030	mg/L		0.0003		1	E200.8	09/02/07 01:40/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	7.0	pCi/L		1.0		1	E900.0	09/02/07 23:51/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Gross Beta	15.4	pCi/L		2.0		1	E900.0	09/02/07 23:51/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	09/04/07 14:06/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/04/07 14:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.739	%				1	A1030 E	09/10/07 14:03/ADM
Anions	14.6	meq/L				1	A1030 E	09/10/07 14:03/ADM
Cations	14.8	meq/L				1	A1030 E	09/10/07 14:03/ADM
Solids, Total Dissolved Calculated	945	mg/L				1	A1030 E	09/10/07 14:03/ADM
TDS Balance (0.80 - 1.20)	0.970	dec. %				1	A1030 E	09/10/07 14:03/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 070830A-ALK-SEL-W		
Sample ID: MBLK1_070830A Alkalinity, Total as CaCO3	Method Blank 6	mg/L	3						
					Run: PH_COND1-R_070830A			09/01/07 14:20	
Sample ID: LCS1_070830A Alkalinity, Total as CaCO3	Laboratory Control Sample 1000	mg/L	5.0	99	90	110			
					Run: PH_COND1-R_070830A			09/01/07 14:21	
Sample ID: R07080329-008ADUP Alkalinity, Total as CaCO3	Sample Duplicate 166	mg/L	5.0				1.2	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	202	mg/L	5.0				1.2	10	
Sample ID: R07080329-009AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 262	mg/L	5.0	104	80	120			
					Run: PH_COND1-R_070830A			09/01/07 14:33	
Method: A2510 B							Batch: 070824_1_COND-PROBE-W		
Sample ID: LCS1-1_070824 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			
					Run: PH_COND2-R_070824A			08/24/07 10:08	
Sample ID: LCS2-1_070824 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			
					Run: PH_COND2-R_070824A			08/24/07 10:09	
Sample ID: LCS_COND-1_070824 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			
					Run: PH_COND2-R_070824A			08/24/07 10:10	
Sample ID: MBLK-1_070824 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						
					Run: PH_COND2-R_070824A			08/24/07 10:10	
Sample ID: R07080256-001ADUP Conductivity @ 25 C	Sample Duplicate 485	umhos/cm	5.0				1.5	10	
					Run: PH_COND2-R_070824A			08/24/07 10:15	
Method: A2540 C							Batch: 070824A-SLDS-TDS-W		
Sample ID: MBLK1_070824A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						
					Run: BAL-4-R_070825A			08/25/07 16:43	
Sample ID: LCS1_070824A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	109	90	110			
					Run: BAL-4-R_070825A			08/25/07 16:44	
Sample ID: R07080241-004BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 570	mg/L	5.0	100	80	120			
					Run: BAL-4-R_070825A			08/25/07 16:51	
Sample ID: R07080295-002BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 200	mg/L	5.0	100	80	120			
					Run: BAL-4-R_070825A			08/25/07 16:57	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 070824A-SLDS-TSS-W		
Sample ID: MBLK1_070824A	Method Blank				Run: BAL-4-R_070824A		08/24/07 12:14		
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070824A	Laboratory Control Sample				Run: BAL-4-R_070824A		08/24/07 12:14		
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Method: A4500-H B							Batch: 070824_1_PH-W		
Sample ID: LCS_pH-1_070824	Laboratory Control Sample				Run: PH_COND2-R_070824A		08/24/07 09:53		
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07080256-001ADUP	Sample Duplicate				Run: PH_COND2-R_070824A		08/24/07 09:57		
pH	7.84	s.u.	0.010				0.0	1.25	
Method: A9222 D							Batch: 070821-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank				Run: MEMFILT_070821A		08/21/07 10:20		
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07080271-001A	Sample Duplicate				Run: MEMFILT_070821A		08/21/07 16:15		
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	
Method: D3977							Batch: 070830A-SLDS-SSC-W		
Sample ID: MBLK1_070830A	Method Blank				Run: BAL-4-R_070830A		08/30/07 09:17		
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_15865		
Sample ID: MB-15865	Method Blank		Run: SUB-C89107			08/30/07 16:05			
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Silicon as SiO2	0.02	mg/L	0.01						
Sample ID: LCS-15865	Laboratory Control Sample		Run: SUB-C89107			08/30/07 16:08			
Boron	0.51	mg/L	0.10	103	90	110			
Iron	0.51	mg/L	0.030	103	90	110			
Calcium	48	mg/L	0.50	97	90	110			
Magnesium	50	mg/L	0.50	99	90	110			
Potassium	53	mg/L	0.50	105	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: C07081452-001BMS	Sample Matrix Spike		Run: SUB-C89107			08/30/07 17:04			
Boron	9.5	mg/L	0.13	95	70	130			
Calcium	770	mg/L	0.79	84	70	130			
Iron	11	mg/L	0.087	97	70	130			
Magnesium	460	mg/L	0.80	89	70	130			
Potassium	1200	mg/L	0.50	104	70	130			
Sodium	460	mg/L	5.3	90	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07081452-001BMDS	Sample Matrix Spike Duplicate		Run: SUB-C89107			08/30/07 17:07			
Silica	20	mg/L	0.11	92	70	130	0.0	20	
Boron	9.7	mg/L	0.13	97	70	130	1.9	20	
Calcium	780	mg/L	0.79	86	70	130	1.3	20	
Iron	11	mg/L	0.087	98	70	130	1.0	20	
Magnesium	480	mg/L	0.80	92	70	130	3.4	20	
Potassium	1300	mg/L	0.50	105	70	130	1.4	20	
Sodium	450	mg/L	5.3	87	70	130	2.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15865		
Sample ID: MB-15865	Method Blank		Run: SUB-C89114			09/02/07 00:32			
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-15865	Laboratory Control Sample		Run: SUB-C89114			09/02/07 00:39			
Arsenic	0.020	mg/L	0.0010	102	80	120			
Barium	0.022	mg/L	0.10	109	80	120			
Cadmium	0.021	mg/L	0.010	105	80	120			
Chromium	0.020	mg/L	0.050	100	80	120			
Copper	0.020	mg/L	0.010	101	80	120			
Lead	0.021	mg/L	0.050	106	80	120			
Manganese	0.020	mg/L	0.010	102	80	120			
Molybdenum	0.021	mg/L	0.10	107	80	120			
Nickel	0.021	mg/L	0.050	104	80	120			
Selenium	0.10	mg/L	0.0010	103	80	120			
Silver	0.020	mg/L	0.010	98	80	120			
Thorium 232	0.018	mg/L	0.0010	92	80	120			
Uranium	0.021	mg/L	0.00030	104	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.022	mg/L	0.010	105	80	120			
Sample ID: LCS-15865	Laboratory Control Sample		Run: SUB-C89114			09/02/07 00:46			
Arsenic	0.50	mg/L	0.0010	100	85	115			
Barium	0.52	mg/L	0.10	104	85	115			
Cadmium	0.50	mg/L	0.010	100	85	115			
Chromium	0.49	mg/L	0.050	99	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.50	mg/L	0.050	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_15865		
Sample ID: LCS-15865	Laboratory Control Sample			Run: SUB-C89114			09/02/07 00:46		
Manganese	0.50	mg/L	0.010	100	85	115			
Molybdenum	0.52	mg/L	0.10	104	85	115			
Nickel	0.49	mg/L	0.050	98	85	115			
Selenium	0.50	mg/L	0.0020	101	85	115			
Silver	0.27	mg/L	0.010	134	85	115			S
Uranium	0.51	mg/L	0.00032	102	85	115			
Vanadium	0.50	mg/L	0.10	100	85	115			
Zinc	0.51	mg/L	0.010	103	85	115			
Sample ID: R07080273-002D	Post Digestion Spike			Run: SUB-C89114			09/02/07 01:46		
Arsenic	0.073	mg/L	0.0010	100	70	130			
Barium	0.17	mg/L	0.10	106	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.066	mg/L	0.050	93	70	130			
Copper	0.072	mg/L	0.010	96	70	130			
Lead	0.077	mg/L	0.050	105	70	130			
Manganese	0.46	mg/L	0.010		70	130			A
Mercury	0.0074	mg/L	0.0010	106	70	130			
Molybdenum	0.075	mg/L	0.10	101	70	130			
Nickel	0.076	mg/L	0.050	95	70	130			
Selenium	0.14	mg/L	0.0010	95	70	130			
Silver	0.037	mg/L	0.010	93	70	130			
Thorium 232	0.074	mg/L	0.0010	103	70	130			
Uranium	0.081	mg/L	0.00030	112	70	130			
Vanadium	0.073	mg/L	0.10	97	70	130			
Zinc	0.083	mg/L	0.010	97	70	130			
Sample ID: R07080273-002D	Post Digestion Spike Duplicate			Run: SUB-C89114			09/02/07 01:53		
Arsenic	0.072	mg/L	0.0010	98	70	130	1.5	20	
Barium	0.17	mg/L	0.10	105	70	130	0.3	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.2	20	
Chromium	0.066	mg/L	0.050	92	70	130	0.6	20	
Copper	0.071	mg/L	0.010	93	70	130	2.5	20	
Lead	0.076	mg/L	0.050	104	70	130	0.8	20	
Manganese	0.46	mg/L	0.010		70	130	0.3	20	A
Mercury	0.0073	mg/L	0.0010	104	70	130	1.3	20	
Molybdenum	0.075	mg/L	0.10	102	70	130	0.0	20	
Nickel	0.075	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.14	mg/L	0.0010	94	70	130	1.0	20	
Silver	0.039	mg/L	0.010	98	70	130	4.8	20	
Thorium 232	0.073	mg/L	0.0010	103	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15865
Sample ID: R07080273-002D	Post Digestion Spike Duplicate					Run: SUB-C89114			09/02/07 01:53
Uranium	0.080	mg/L	0.00030	109	70	130	1.9	20	
Vanadium	0.072	mg/L	0.10	96	70	130	0.0	20	
Zinc	0.081	mg/L	0.010	94	70	130	2.1	20	
Method: E200.8									Batch: C_15874
Sample ID: MB-15874	Method Blank					Run: SUB-C89114			09/01/07 23:05
Uranium	9E-05	mg/L							
Sample ID: LCS1-15874	Laboratory Control Sample					Run: SUB-C89114			09/01/07 23:12
Uranium	0.0208	mg/L	0.00030	104	80	120			
Sample ID: LCS-15874	Laboratory Control Sample					Run: SUB-C89114			09/01/07 23:19
Uranium	0.990	mg/L	0.00030	99	85	115			
Sample ID: R07080273-002F	Post Digestion Spike					Run: SUB-C89114			09/02/07 00:12
Thorium 232	0.0127	mg/L	0.0010	101	70	130			
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R07080273-002F	Post Digestion Spike Duplicate					Run: SUB-C89114			09/02/07 00:19
Thorium 232	0.0128	mg/L	0.0010	102	70	130	1.5	20	
Uranium	0.0130	mg/L	0.00030	104	70	130	1.7	20	
Method: E300.0									Batch: R31064
Sample ID: LFB0708214726-3	Laboratory Fortified Blank					Run: DIONEX_070821A			08/21/07 20:03
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Sample ID: LFB0708214726-4	Laboratory Fortified Blank					Run: DIONEX_070821A			08/21/07 20:18
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sample ID: R07080273-001BMS	Sample Matrix Spike					Run: DIONEX_070821A			08/21/07 23:54
Fluoride	2.35	mg/L	0.10	88	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	84	80	120			
Sample ID: R07080273-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070821A			08/22/07 00:10
Fluoride	2.36	mg/L	0.10	88	80	120	0.4	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	86	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31094		
Sample ID: LFB0708230306-3	Laboratory Fortified Blank								08/23/07 22:12
Chloride	4.86	mg/L	0.50	97	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: LFB0708230306-4	Laboratory Fortified Blank								08/23/07 22:29
Chloride	4.77	mg/L	0.50	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R07080262-003AMS	Sample Matrix Spike								08/24/07 05:36
Chloride	28.2	mg/L	0.50	95	80	120			
Sulfate	210	mg/L	3.6	77	80	120			S
Sample ID: R07080262-003AMSD	Sample Matrix Spike Duplicate								08/24/07 05:52
Chloride	27.1	mg/L	0.50	91	80	120	3.7	10	
Sulfate	206	mg/L	3.6	71	80	120	2.0	10	S
Method: E900.0							Batch: C_GrAB-0319		
Sample ID: RB-GrAB-0319	Method Blank								09/01/07 02:15
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0319	Laboratory Control Sample								09/01/07 02:16
Gross Alpha	234	pCi/L	1.0	96	70	130			
Sample ID: Cs137-GrAB-0319	Laboratory Control Sample								09/01/07 02:16
Gross Beta	93.5	pCi/L	2.0	97	70	130			
Sample ID: C07081351-001AMS	Sample Matrix Spike								09/01/07 02:16
Gross Alpha	360	pCi/L	1.0	73	70	130			
Sample ID: C07081351-001AMSD	Sample Matrix Spike Duplicate								09/01/07 02:15
Gross Alpha	354	pCi/L	1.0	72	70	130	1.7	13.3	
Sample ID: C07081351-001AMS	Sample Matrix Spike								09/01/07 02:15
Gross Beta	182	pCi/L	2.0	93	70	130			
Sample ID: C07081351-001AMSD	Sample Matrix Spike Duplicate								09/01/07 02:15
Gross Beta	188	pCi/L	2.0	96	70	130	3.3	15.5	
Sample ID: C07080804-001ADUP	Sample Duplicate								09/02/07 04:25
Gross Alpha	5.41	pCi/L	1.0				3.9	37.5	
Gross Beta	7.51	pCi/L	2.0				30	56.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/11/07
 Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2284		
Sample ID: C07081530-001AMS	Sample Matrix Spike				Run: SUB-C89178		09/04/07 14:06		
Radium 226	29.5	pCi/L	0.20	78	70	130			
- Spike response is acceptable. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approve									
Sample ID: C07081530-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89178		09/04/07 14:06		
Radium 226	27.1	pCi/L	0.20	66	70	130	8.4	25.3	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: RB-RA226-2284	Method Blank				Run: SUB-C89178		09/04/07 15:12		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2284	Laboratory Control Sample				Run: SUB-C89178		09/04/07 15:12		
Radium 226	11	pCi/L	0.20	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Sample R07080273-001 Reported in Run WATERCALC_070910A

SAMPLE ID: R07080273-001

9/10/2007

CATIONS			ANIONS		
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	158	4.45
Ca	73	3.64	SO4	511	10.65
Mg	28	2.29	T. Alkalinity	112	2.24
K	11	0.29	HCO3	137	
Na	263	11.44	CO3	<1	
Al	<1	0.06			
Fe	<1	0.02			
Mn	<1	0.01			
Hardness (as CaCO3)	297		OH		
Hardness, grains/gal.	17.4		NO3	0.1	0.01
NH4+			PO4		
Si	2.9		F	0.6	0.03
			CN		
			Br	<0.1	0.00
			Total Anions		17.38
	Total Cations	17.76			

BALANCE, (± 5%) 1.06
BALANCE, "sigma" -0.99

	Measured	Calculated
Sample pH	8.8	
Conductivity (umho/cm)		1560
TDS	1080	1120
TDS Ratio		0.96
Resistivity (RW - ohm-m)		
Estimated Ionic Strength (from TDS)		0.0271

Salinity	
Cl as NaCl	260
Carbonate Hardness	112
Non-carbonate Hardness	185
Free CO2	
Total CO2	
SAR	6.64
Langlier Saturation Index	1.1
Ryznar Index	6.51
Aggressive Index	13.11
Temp	20

Very hard water.

SAMPLE ID: R07080273-001

BALANCE, (± 5%) 1.06



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: **RESPEC**
 Report Mail Address: **3824 Jet Dr. Rapid City, SD 57703**
 Project Name, PWS #, Permit #, Etc.: **Powertech Dewey Burdock**
 Contact Name, Phone, Fax, E-mail: **Cry Foreman 605.381.0024**
 Sampler Name if other than Contact: _____
 Invoice Address: _____
 Invoice Contact & Phone #: _____

Report Required For: POTW/WWTP DW Other _____
 Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC A2LA Level IV Other _____
 EDD/EDT Format _____

Number of Containers	Sample Type: A W S V B O	Air Water Soils/Solids Vegetation Blossay Other	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Receipt Temp Cooler ID(s)
			Normal Turnaround (TAT)	RUSH Turnaround (TAT)		
1	Dew Burd BUC01	6/20/07 17:07	SEE ATTACHED	SEE ATTACHED	Notify ELI prior to RUSH sample submittal for additional charges and scheduling	18.6 °C 156
2	Dew Burd BUC04	6/20/07 16:08	SEE ATTACHED	SEE ATTACHED	Notify ELI prior to RUSH sample submittal for additional charges and scheduling	18.6 °C 156
3						
4						
5						
6						
7						
8						
9						
10						

Number of Containers: _____
 Sample Type: _____ # of fractions: _____
 Relinquished by: *[Signature]* Date/Time: **6/21/07 11:10**
 Relinquished by: *[Signature]* Date/Time: **8/23/07 11:10**
 Shipped by: _____ Date/Time: _____
 Shipped by: _____ Date/Time: _____
 Received by: *[Signature]* Date/Time: **8/23/07 11:10**
 Received by: _____ Date/Time: _____

Custody Record MUST be Signed

LABORATORY USE ONLY



ANALYTICAL SUMMARY REPORT

October 10, 2007

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07090098

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 9/6/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090098-001	DewBurd CHR01	09/05/07 17:30	09/06/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090098-002	DewBurd CHR01	09/05/07 17:25	09/06/07	Aqueous	Same As Above
R07090098-003	DewBurdCHR05	09/05/07 18:20	09/06/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:


Linda Larson

Rapid City - Project Manager



CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 9/6/2007 1:18:00 PM. These samples were assigned ELI Workorder Number R07090098.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090098-001
 Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
 Collection Date: 09/05/07 17:30
 Date Received: 09/06/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MICROBIOLOGICAL							
Bacteria, Fecal Coliform	150	CFU/100ml	D	2		2	A9222 D 09/06/07 17:25/jmh
MAJOR IONS							
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B 09/19/07 11:08/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 09/19/07 11:08/jn
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B 09/19/07 11:08/jn
Calcium	191	mg/L		1.0		10	E200.7 10/04/07 23:40/eli-c
Chloride	74	mg/L		1		20	E300.0 09/07/07 15:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 09/07/07 16:30/jmh
Magnesium	94	mg/L		1.0		10	E200.7 10/04/07 23:40/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/07/07 16:30/jmh
Potassium	15	mg/L		1.0		10	E200.7 10/04/07 23:40/eli-c
Silica	8.1	mg/L		1.0		10	E200.7 10/04/07 23:40/eli-c
Sodium	665	mg/L		1.0		10	E200.7 10/04/07 23:40/eli-c
Sulfate	2060	mg/L	D	40		50	E300.0 09/08/07 22:16/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	4030	umhos/cm		5		1	A2510 B 09/11/07 09:25/jmh
pH	8.26	s.u.		0.01		1	A4500-H B 09/11/07 08:40/jmh
Solids, Suspended Sediment SSC @ 105 C	56	mg/L		5		1	D3977 09/11/07 08:11/jn
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5		1	A2540 C 09/08/07 12:13/jn
Solids, Total Suspended TSS @ 105 C	57	mg/L		5		1	A2540 D 09/10/07 08:57/jn
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 09/19/07 19:58/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8 09/19/07 19:58/eli-c
METALS - TOTAL							
Arsenic	0.002	mg/L		0.001		1	E200.8 09/18/07 03:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8 09/18/07 03:57/eli-c
Boron	0.61	mg/L	D	0.20		10	E200.7 10/04/07 23:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/18/07 03:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 09/18/07 03:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/18/07 03:57/eli-c
Iron	0.71	mg/L	D	0.05		10	E200.7 10/04/07 23:40/eli-c
Lead	0.001	mg/L		0.001		1	E200.8 09/18/07 03:57/eli-c
Manganese	0.21	mg/L		0.01		1	E200.8 09/18/07 03:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/18/07 03:57/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090098-001
 Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
 Collection Date: 09/05/07 17:30
 Date Received: 09/06/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/18/07 03:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/18/07 03:57/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/18/07 03:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/18/07 03:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/18/07 03:57/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	09/18/07 03:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/18/07 03:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/18/07 03:57/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.7	pCi/L		1.0		1	E900.0	09/19/07 01:41/eli-c
Gross Alpha precision (±)	5.1	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/23/07 09:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.45	%				1	A1030 E	10/05/07 17:01/eli-c
Anions	49.0	meq/L				1	A1030 E	10/05/07 17:01/eli-c
Cations	46.7	meq/L				1	A1030 E	10/05/07 17:01/eli-c
Solids, Total Dissolved Calculated	3230	mg/L				1	A1030 E	10/05/07 17:01/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %				1	A1030 E	10/05/07 17:01/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090098-002
 Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
 Collection Date: 09/05/07 17:25
 Date Received: 09/06/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	160	CFU/100ml	D	2		2	A9222 D	09/06/07 17:25/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Calcium	186	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Chloride	74	mg/L		1		20	E300.0	09/07/07 16:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/07/07 17:03/jmh
Magnesium	92	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/07/07 17:03/jmh
Potassium	15	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Silica	7.8	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Sodium	657	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Sulfate	2010	mg/L	D	40		50	E300.0	09/08/07 22:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3990	umhos/cm		5		1	A2510 B	09/11/07 09:29/jmh
pH	8.30	s.u.		0.01		1	A4500-H B	09/11/07 08:42/jmh
Solids, Suspended Sediment SSC @ 105 C	49	mg/L		5		1	D3977	09/11/07 08:12/jn
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5		1	A2540 C	09/08/07 12:13/jn
Solids, Total Suspended TSS @ 105 C	54	mg/L		5		1	A2540 D	09/10/07 08:59/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	09/19/07 20:06/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8	09/19/07 20:06/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Boron	0.60	mg/L	D	0.20		10	E200.7	10/04/07 23:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/18/07 04:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
Iron	0.66	mg/L	D	0.05		10	E200.7	10/04/07 23:44/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Manganese	0.20	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090098-002
 Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
 Collection Date: 09/05/07 17:25
 Date Received: 09/06/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/18/07 04:35/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	09/18/07 04:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.9	pCi/L		1.0		1	E900.0	09/19/07 01:41/eli-c
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Gross Beta	18.6	pCi/L		2.0		1	E900.0	09/19/07 01:41/eli-c
Gross Beta precision (±)	13.4	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/23/07 10:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.10	%				1	A1030 E	10/05/07 17:03/eli-c
Anions	47.9	meq/L				1	A1030 E	10/05/07 17:03/eli-c
Cations	45.9	meq/L				1	A1030 E	10/05/07 17:03/eli-c
Solids, Total Dissolved Calculated	3160	mg/L				1	A1030 E	10/05/07 17:03/eli-c
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	10/05/07 17:03/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-003
Client Sample ID: DewBurdCHR05

Report Date: 10/10/07
Collection Date: 09/05/07 18:20
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	290	CFU/100ml	D	10		10	A9222 D	09/06/07 17:25/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Calcium	270	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Chloride	344	mg/L		1		20	E300.0	09/07/07 17:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/07/07 17:36/jmh
Magnesium	151	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/07/07 17:36/jmh
Potassium	14	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Silica	7.8	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Sodium	652	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Sulfate	2160	mg/L	D	40		50	E300.0	09/08/07 22:49/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4630	umhos/cm		5		1	A2510 B	09/11/07 09:30/jmh
pH	8.08	s.u.		0.01		1	A4500-H B	09/11/07 08:43/jmh
Solids, Suspended Sediment SSC @ 105 C	6	mg/L		5		1	D3977	09/11/07 08:12/jn
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		5		1	A2540 C	09/08/07 12:14/jn
Solids, Total Suspended TSS @ 105 C	6	mg/L		5		1	A2540 D	09/10/07 08:59/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	09/19/07 20:14/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	09/19/07 20:14/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/18/07 04:42/eli-c
Boron	0.54	mg/L	D	0.20		10	E200.7	10/04/07 23:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/18/07 04:42/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/18/07 04:42/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/18/07 04:42/eli-c
Iron	0.25	mg/L	D	0.05		10	E200.7	10/04/07 23:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c
Manganese	0.48	mg/L		0.01		1	E200.8	09/18/07 04:42/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090098-003
 Client Sample ID: DewBurdCHR05

Report Date: 10/10/07
 Collection Date: 09/05/07 18:20
 Date Received: 09/06/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL							
Molybdenum	ND	mg/L		0.1		1	E200.8 09/18/07 04:42/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 09/18/07 04:42/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8 09/18/07 04:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/18/07 04:42/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/18/07 04:42/eli-c
Uranium	0.0136	mg/L		0.0003		1	E200.8 09/18/07 04:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 09/18/07 04:42/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 09/18/07 04:42/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	9.7	pCi/L		1.0		1	E900.0 09/19/07 01:41/eli-c
Gross Alpha precision (±)	4.6	pCi/L				1	E900.0 09/19/07 01:41/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0 09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 09/23/07 11:07/eli-c
DATA QUALITY							
A/C Balance (± 5)	-3.85	%				1	A1030 E 10/05/07 17:05/eli-c
Anions	59.0	meq/L				1	A1030 E 10/05/07 17:05/eli-c
Cations	54.6	meq/L				1	A1030 E 10/05/07 17:05/eli-c
Solids, Total Dissolved Calculated	3730	mg/L				1	A1030 E 10/05/07 17:05/eli-c
TDS Balance (0.80 - 1.20)	1.00	dec. %				1	A1030 E 10/05/07 17:05/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/10/07
 Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 070919A-ALK-SEL-W		
Sample ID: MBLK1_070919A Alkalinity, Total as CaCO3	Method Blank 4	mg/L	3				Run: PH_COND1-R_070719B		09/19/07 10:51
Sample ID: LCS1_070919A Alkalinity, Total as CaCO3	Laboratory Control Sample 972	mg/L	5.0	97	90	110	Run: PH_COND1-R_070719B		09/19/07 11:02
Sample ID: R07090151-004AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 276	mg/L	5.0	94	80	120	Run: PH_COND1-R_070719B		09/19/07 11:46
Method: A2510 B							Batch: 070911_1_COND-PROBE-W		
Sample ID: LCS1-1_070911 Conductivity @ 25 C	Laboratory Control Sample 152	umhos/cm	5.0	101	90	110	Run: PH_COND2-R_070911A		09/11/07 09:25
Sample ID: LCS2-1_070911 Conductivity @ 25 C	Laboratory Control Sample 4990	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070911A		09/11/07 09:26
Sample ID: LCS_COND-1_070911 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_070911A		09/11/07 09:27
Sample ID: MBLK-1_070911 Conductivity @ 25 C	Method Blank ND	umhos/cm	5				Run: PH_COND2-R_070911A		09/11/07 09:28
Sample ID: R07090098-001BDUP Conductivity @ 25 C	Sample Duplicate 3980	umhos/cm	5.0				Run: PH_COND2-R_070911A	1.2	09/11/07 09:28 10
Method: A2540 C							Batch: 070908A-SLDS-TDS-W		
Sample ID: MBLK1_070908A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3				Run: BAL-4-R_070908B		09/08/07 12:06
Sample ID: LCS1_070908A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 190	mg/L	5.0	97	90	110	Run: BAL-4-R_070908B		09/08/07 12:06
Sample ID: R07090063-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 4800	mg/L	5.0	100	80	120	Run: BAL-4-R_070908B		09/08/07 12:11
Sample ID: R07090106-004CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 9300	mg/L	5.0	108	80	120	Run: BAL-4-R_070908B		09/08/07 12:16

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/10/07
 Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 070910A-SLDS-TSS-W		
Sample ID: MBLK1_070910A	Method Blank					Run: BAL-4-R_070910A			09/10/07 08:43
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070910A	Laboratory Control Sample					Run: BAL-4-R_070910A			09/10/07 08:43
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Method: A4500-H B							Batch: 070911_1_PH-W		
Sample ID: LCS_pH-1_070911	Laboratory Control Sample					Run: PH_COND2-R_070911A			09/11/07 08:38
pH	6.84	s.u.	0.010	100	98.55	101.45			
Sample ID: R07090098-001BDUP	Sample Duplicate					Run: PH_COND2-R_070911A			09/11/07 08:41
pH	8.27	s.u.	0.010				0.1	1.25	
Method: A9222 D							Batch: 070906-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank					Run: MEMFILT_070906A			09/06/07 17:25
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07090100-001A	Sample Duplicate					Run: MEMFILT_070906A			09/06/07 17:25
Bacteria, Fecal Coliform	4.0	CFU/100ml	2.0				110	10	R
Method: D3977							Batch: 070910A-SLDS-SSC-W		
Sample ID: MBLK1_070910A	Method Blank					Run: BAL-4-R_070910B			09/11/07 08:08
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_16073		
Sample ID: MB-16073	Method Blank		Run: SUB-C90814			10/04/07 23:52			
Boron	ND	mg/L	0.02						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.06						
Potassium	ND	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	0.4	mg/L	0.07						
Sample ID: LCS-16073	Laboratory Control Sample		Run: SUB-C90814			10/04/07 23:56			
Boron	0.47	mg/L	0.10	94	90	110			
Iron	0.48	mg/L	0.030	96	90	110			
Calcium	45	mg/L	0.50	90	90	110			
Magnesium	49	mg/L	0.50	99	90	110			
Potassium	49	mg/L	0.50	97	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	47	mg/L	0.50	93	90	110			
Sample ID: C07090508-001BMS	Sample Matrix Spike		Run: SUB-C90814			10/05/07 00:04			
Boron	0.94	mg/L	0.10	90	70	130			
Iron	0.92	mg/L	0.030	90	70	130			
Calcium	120	mg/L	0.50	60	70	130			S
Magnesium	54	mg/L	0.50	79	70	130			
Potassium	120	mg/L	0.50	96	70	130			
Silica	11	mg/L	0.10		70	130			A
Sodium	60	mg/L	0.50	86	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07090508-001BMSD	Sample Matrix Spike Duplicate		Run: SUB-C90814			10/05/07 00:07			
Boron	0.98	mg/L	0.10	95	70	130	4.5	20	
Iron	0.95	mg/L	0.030	94	70	130	4.0	20	
Calcium	120	mg/L	0.50	62	70	130	0.8	20	S
Magnesium	56	mg/L	0.50	84	70	130	4.7	20	
Potassium	120	mg/L	0.50	98	70	130	1.5	20	
Silica	11	mg/L	0.10		70	130	2.1	20	A
Sodium	60	mg/L	0.50	87	70	130	0.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16073		
Sample ID: MB-16073	Method Blank		Run: SUB-C89896			09/18/07 02:58			
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	0.002	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	ND	mg/L	0.002						
Sample ID: LCS-16073	Laboratory Control Sample		Run: SUB-C89896			09/18/07 03:13			
Arsenic	0.0486	mg/L	0.0010	97	85	115			
Barium	0.0488	mg/L	0.10	98	85	115			
Cadmium	0.0482	mg/L	0.010	96	85	115			
Chromium	0.0479	mg/L	0.050	96	85	115			
Copper	0.0478	mg/L	0.010	96	85	115			
Lead	0.0469	mg/L	0.050	94	85	115			
Manganese	0.0486	mg/L	0.010	97	85	115			
Molybdenum	0.0491	mg/L	0.10	98	85	115			
Nickel	0.0482	mg/L	0.050	93	85	115			
Selenium	0.0487	mg/L	0.0010	97	85	115			
Silver	0.0197	mg/L	0.010	98	85	115			
Uranium	0.0486	mg/L	0.00030	97	85	115			
Vanadium	0.0481	mg/L	0.10	96	85	115			
Zinc	0.0491	mg/L	0.010	98	85	115			
Sample ID: C07090470-001DMS4	Post Digestion Spike		Run: SUB-C89896			09/18/07 04:57			
Arsenic	0.0568	mg/L	0.0010	79	70	130			
Barium	0.0776	mg/L	0.10	106	70	130			
Cadmium	0.0676	mg/L	0.010	97	70	130			
Chromium	0.0727	mg/L	0.050	100	70	130			
Copper	0.0759	mg/L	0.010	98	70	130			
Lead	0.0735	mg/L	0.050	103	70	130			
Manganese	0.174	mg/L	0.010	75	70	130			
Mercury	0.00516	mg/L	0.0010	74	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16073		
Sample ID: C07090470-001DMS4	Post Digestion Spike			Run: SUB-C89896			09/18/07 04:57		
Molybdenum	0.0657	mg/L	0.10	85	70	130			
Nickel	0.0743	mg/L	0.050	83	70	130			
Selenium	0.0603	mg/L	0.0010	85	70	130			
Silver	0.0183	mg/L	0.010	91	70	130			
Uranium	0.0769	mg/L	0.00030	110	70	130			
Vanadium	0.0675	mg/L	0.10	94	70	130			
Zinc	0.111	mg/L	0.010	89	70	130			
Sample ID: C07090470-001DMSD4	Post Digestion Spike Duplicate			Run: SUB-C89896			09/18/07 05:05		
Arsenic	0.0568	mg/L	0.0010	79	70	130	0.0	20	
Barium	0.0789	mg/L	0.10	108	70	130	0.0	20	
Cadmium	0.0680	mg/L	0.010	97	70	130	0.5	20	
Chromium	0.0730	mg/L	0.050	100	70	130	0.3	20	
Copper	0.0766	mg/L	0.010	99	70	130	1.0	20	
Lead	0.0740	mg/L	0.050	103	70	130	0.8	20	
Manganese	0.172	mg/L	0.010	72	70	130	1.3	20	
Mercury	0.00511	mg/L	0.0010	73	70	130	1.0	20	
Molybdenum	0.0672	mg/L	0.10	87	70	130	0.0	20	
Nickel	0.0748	mg/L	0.050	84	70	130	0.7	20	
Selenium	0.0600	mg/L	0.0010	84	70	130	0.5	20	
Silver	0.0157	mg/L	0.010	79	70	130	15	20	
Uranium	0.0775	mg/L	0.00030	111	70	130	0.7	20	
Vanadium	0.0675	mg/L	0.10	94	70	130	0.0	20	
Zinc	0.109	mg/L	0.010	85	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/10/07
 Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16142
Sample ID: MB-16142	Method Blank								Run: SUB-C90046 09/19/07 18:44
Uranium	0.0004	mg/L	4E-05						
Sample ID: LCS-16142	Laboratory Control Sample								Run: SUB-C90046 09/19/07 18:51
Uranium	0.0498	mg/L	0.00035	99	85	115			
Sample ID: R07090098-003F	Post Digestion Spike								Run: SUB-C90046 09/19/07 20:21
Uranium	0.0244	mg/L	0.00030	96	70	130			
Sample ID: R07090098-003F	Post Digestion Spike Duplicate								Run: SUB-C90046 09/19/07 20:29
Uranium	0.0248	mg/L	0.00030	98	70	130	1.7	20	
Sample ID: R07090098-003F	Post Digestion Spike								Run: SUB-C90046 09/19/07 20:21
Thorium 232	0.0239	mg/L	0.0010	96	70	130			
Sample ID: R07090098-003F	Post Digestion Spike Duplicate								Run: SUB-C90046 09/19/07 20:29
Thorium 232	0.0245	mg/L	0.0010	98	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/10/07
 Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31290		
Sample ID: LFB0709074817-3	Laboratory Fortified Blank					Run: DIONEX_070907A	09/07/07 15:08		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.91	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Sample ID: LFB0709074817-4	Laboratory Fortified Blank					Run: DIONEX_070907A	09/07/07 15:24		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Sample ID: R07090098-001BMS	Sample Matrix Spike					Run: DIONEX_070907A	09/07/07 15:57		
Chloride	160	mg/L	0.80	86	80	120			
Fluoride	40.3	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	47.8	mg/L	0.34	96	80	120			
Sample ID: R07090098-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070907A	09/07/07 16:14		
Chloride	161	mg/L	0.80	87	80	120	0.4	10	
Fluoride	39.5	mg/L	1.3	99	80	120	2.1	10	
Nitrogen, Nitrate as N	46.8	mg/L	0.34	94	80	120	2.1	10	
Sample ID: R07090106-002CMS	Sample Matrix Spike					Run: DIONEX_070907A	09/07/07 19:14		
Chloride	167	mg/L	0.80	90	80	120			
Fluoride	40.3	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	49.4	mg/L	0.34	95	80	120			
Sample ID: R07090106-002CMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070907A	09/07/07 19:31		
Chloride	166	mg/L	0.80	89	80	120	0.8	10	
Fluoride	39.1	mg/L	1.3	98	80	120	2.9	10	
Nitrogen, Nitrate as N	47.7	mg/L	0.34	92	80	120	3.5	10	
Method: E300.0							Batch: R31293		
Sample ID: LFB0709084128-3	Laboratory Fortified Blank					Run: DIONEX_070908A	09/08/07 20:38		
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: LFB0709084128-4	Laboratory Fortified Blank					Run: DIONEX_070908A	09/08/07 20:54		
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R07090117-001AMS	Sample Matrix Spike					Run: DIONEX_070908A	09/08/07 21:44		
Sulfate	986	mg/L	14	80	80	120			
Sample ID: R07090117-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070908A	09/08/07 22:00		
Sulfate	974	mg/L	14	76	80	120	1.2	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/10/07
 Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0323		
Sample ID: RB-GrAB-0323	Method Blank								Run: SUB-C89970 09/17/07 21:54
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0323	Laboratory Control Sample								Run: SUB-C89970 09/17/07 21:54
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0323	Laboratory Control Sample								Run: SUB-C89970 09/17/07 21:54
Gross Beta	85.9	pCi/L	2.0	94	70	130			
Sample ID: C07090292-001AMS	Sample Matrix Spike								Run: SUB-C89970 09/17/07 21:54
Gross Alpha	233	pCi/L	1.0	95	70	130			
Sample ID: C07090292-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C89970 09/17/07 21:54
Gross Alpha	224	pCi/L	1.0	91	70	130	3.8	13.8	
Sample ID: C07090292-001AMS	Sample Matrix Spike								Run: SUB-C89970 09/17/07 21:54
Gross Beta	90.6	pCi/L	2.0	99	70	130			
Sample ID: C07090292-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C89970 09/17/07 21:54
Gross Beta	92.2	pCi/L	2.0	100	70	130	1.7	15.5	
Sample ID: R07090086-001A	Sample Duplicate								Run: SUB-C89970 09/18/07 10:22
Gross Alpha	21.8	pCi/L	1.0				4.0	21.1	
Gross Beta	20.5	pCi/L	2.0				9.2	26.8	
Method: E903.0							Batch: C_RA226-2308		
Sample ID: C07090420-001AMS	Sample Matrix Spike								Run: SUB-C90184 09/23/07 07:05
Radium 226	20	pCi/L	0.20	69	70	130			S
Sample ID: C07090420-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C90184 09/23/07 08:05
Radium 226	21	pCi/L	0.20	70	70	130	1.3	28.7	
Sample ID: MB-RA226-2308	Method Blank								Run: SUB-C90184 09/23/07 19:17
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2308	Laboratory Control Sample								Run: SUB-C90184 09/23/07 20:17
Radium 226	11	pCi/L	0.20	88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: **RESPEC**
 Report Mail Address: **3824 Jet Drive
 Rapid City, SD 57703**
 Project Name, PWS #, Permit #, Etc.: **PowerTech Dewey Burdock**
 Contact Name, Phone, Fax, E-mail: _____
 Sampler Name if other than Contact: _____

Invoice Address: _____
 Invoice Contact & Phone #: _____
 Purchase Order #: _____
 ELI Quote #: _____

Report Required For: POT/WWTP DW Other _____
 Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC A2LA Level IV Other _____
 EDD/EDT Format _____

Number of Containers: _____
 Sample Type: A W S V B O
 Air Water Soils/Solids Vegetation
 Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments:	Shipped by: Cooler ID(s)
			Normal Turnaround (TAT)	RUSH Turnaround (TAT)		
1 DewBurd CHR01	17:30	9/05/07	SEE ATTACHED		Bottle Set 2	Receipt Temp <u>501</u> Cooler ID(s) _____ 2.6 °C <u>100</u> Custody Seal Y N Intact Y N Signature Y N Match Y N Lab ID <u>AG7090098-001</u>
2 DewBurd CHR01	17:25	9/05/07			Bottle Set 9	
3 DewBurd CHR05	18:20	9/05/07			Bottle Set 8	
4						
5						
6						
7						
8						
9						
10						

Relinquished by (print): **Eric Krantz** Date/Time: **9/6/07**
 Relinquished by (print): _____ Date/Time: _____
 Received by (print): **Steve Finland** Date/Time: **9-6-07 13:18**
 Received by (print): _____ Date/Time: _____
 Signature: _____
 Signature: _____

Sample Disposal: _____ Return to client: _____
 Lab Disposal: _____
 Sample Type: _____
 # of fractions: _____

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 19, 2007

Cory Freeman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07090368 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 9/27/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090368-001	DewBurd CHR01	09/26/07 12:01	09/27/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography Metals by, Dissolved pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090368-002	DewBurd BVC01	09/26/07 12:16	09/27/07	Aqueous	Same As Above
R07090368-003	DewBurd SUB08	09/26/07 18:40	09/27/07	Aqueous	Same As Above
R07090368-004	DewBurd CHR05	09/26/07 15:30	09/27/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.



ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Report Approved By:

A handwritten signature in black ink, appearing to read "Linda Larson", written over a horizontal line.

Linda Larson

Rapid City - Project Manager



Date: 19-Dec-07

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07090368

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report and
- Dissolved radiochemical data was determined from the subtraction of the suspended parameter from the total parameter.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-001
 Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:01
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	76	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Bicarbonate as HCO3	302	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Calcium	344	mg/L		1.0		10	E200.7	10/09/07 17:44/eli-c
Chloride	138	mg/L	D	2		50	E300.0	09/28/07 01:10/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	09/28/07 01:59/jmh
Magnesium	172	mg/L		1.0		10	E200.7	10/09/07 17:44/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 01:59/jmh
Potassium	17	mg/L		1.0		1	E200.7	10/08/07 21:30/eli-c
Silica	8.6	mg/L		1.0		1	E200.7	10/08/07 21:30/eli-c
Sodium	1180	mg/L	D	5.3		10	E200.7	10/08/07 19:48/eli-c
Sulfate	3970	mg/L	D	40		50	E300.0	09/28/07 01:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6450	umhos/cm		5		1	A2510 B	10/02/07 18:23/jmh
pH	8.20	s.u.		0.01		1	A4500-H B	10/02/07 18:24/jmh
Solids, Suspended Sediment SSC @ 105 C	34	mg/L		5		1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	5900	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	35	mg/L		5		1	A2540 D	09/27/07 13:34/sn
METALS - DISSOLVED								
Uranium	0.0149	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:47/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:47/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 22:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 22:54/eli-c
Boron	0.34	mg/L		0.10		2	E200.7	10/09/07 21:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 22:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 22:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 22:54/eli-c
Iron	1.1	mg/L		0.03		1	E200.7	10/08/07 21:30/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-001
 Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:01
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL									
Lead	ND	mg/L		0.001			1	E200.8	10/08/07 22:54/eli-c
Manganese	0.25	mg/L		0.01			1	E200.8	10/08/07 22:54/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/08/07 22:54/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/08/07 22:54/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/08/07 22:54/eli-c
Selenium	0.003	mg/L		0.001			1	E200.8	10/08/07 22:54/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/08/07 22:54/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/08/07 22:54/eli-c
Uranium	0.0150	mg/L		0.0003			1	E200.8	10/08/07 22:54/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	10/08/07 22:54/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	10/09/07 21:38/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20			1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	33.8	pCi/L		1.0			1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	6.1	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Gross Beta	21.9	pCi/L		2.0			1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	14.0	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.68	%					1	A1030 E	12/10/07 19:54/eli-c
Anions	91.5	meq/L					1	A1030 E	12/10/07 19:54/eli-c
Cations	83.3	meq/L					1	A1030 E	12/10/07 19:54/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-001
 Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:01
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	5970	mg/L				1	A1030 E	12/10/07 19:54/eli-c
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	12/10/07 19:54/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-002
 Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:16
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	78	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Bicarbonate as HCO3	85	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Calcium	53	mg/L		1.0		10	E200.7	10/09/07 17:48/eli-c
Chloride	141	mg/L	D	2		50	E300.0	09/28/07 02:15/jmh
Fluoride	0.9	mg/L		0.1		1	E300.0	09/28/07 03:05/jmh
Magnesium	28	mg/L		1.0		10	E200.7	10/09/07 17:48/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 03:05/jmh
Potassium	11	mg/L		1.0		1	E200.7	10/08/07 21:34/eli-c
Silica	3.8	mg/L		1.0		1	E200.7	10/08/07 21:34/eli-c
Sodium	242	mg/L	D	5.3		10	E200.7	10/08/07 19:52/eli-c
Sulfate	568	mg/L	D	40		50	E300.0	09/28/07 02:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1740	umhos/cm		5		1	A2510 B	10/02/07 18:26/jmh
pH	8.79	s.u.		0.01		1	A4500-H B	10/02/07 18:26/jmh
Solids, Suspended Sediment SSC @ 105 C	40	mg/L		5		1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	31	mg/L		5		1	A2540 D	09/27/07 13:35/sn
METALS - DISSOLVED								
Uranium	0.0075	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:55/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:55/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 23:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:01/eli-c
Boron	0.21	mg/L		0.10		2	E200.7	10/09/07 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:01/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	10/08/07 21:34/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-002
 Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:16
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL									
Lead	ND	mg/L		0.001			1	E200.8	10/08/07 23:01/eli-c
Manganese	0.20	mg/L		0.01			1	E200.8	10/08/07 23:01/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/08/07 23:01/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/08/07 23:01/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/08/07 23:01/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	10/08/07 23:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/08/07 23:01/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/08/07 23:01/eli-c
Uranium	0.0076	mg/L		0.0003			1	E200.8	10/08/07 23:01/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	10/08/07 23:01/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	10/09/07 21:41/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20			1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	6.6	pCi/L		1.0			1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	1.2	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Gross Beta	9.4	pCi/L		2.0			1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	2.9	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.61	%					1	A1030 E	12/10/07 19:55/eli-c
Anions	17.4	meq/L					1	A1030 E	12/10/07 19:55/eli-c
Cations	15.9	meq/L					1	A1030 E	12/10/07 19:55/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-002
 Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
 Collection Date: 09/26/07 12:16
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Solids, Total Dissolved Calculated	1090	mg/L					1	A1030 E	12/10/07 19:55/eli-c
TDS Balance (0.80 - 1.20)	1.08	dec. %					1	A1030 E	12/10/07 19:55/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-003
 Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
 Collection Date: 09/26/07 18:40
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	4	CFU/100ml	D	2			2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	102	mg/L		5			1	A2320 B	10/04/07 16:38/sn
Carbonate as CO3	17	mg/L		5			1	A2320 B	10/04/07 16:38/sn
Bicarbonate as HCO3	90	mg/L		5			1	A2320 B	10/04/07 16:38/sn
Calcium	102	mg/L		1.0			10	E200.7	10/09/07 17:51/eli-c
Chloride	34	mg/L		1			5	E300.0	10/02/07 01:03/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	09/28/07 03:37/jmh
Magnesium	60	mg/L		1.0			10	E200.7	10/09/07 17:51/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 03:37/jmh
Potassium	14	mg/L		1.0			1	E200.7	10/08/07 21:37/eli-c
Silica	ND	mg/L		1.0			1	E200.7	10/08/07 21:37/eli-c
Sodium	618	mg/L	D	5.3			10	E200.7	10/08/07 19:55/eli-c
Sulfate	1880	mg/L	D	40			50	E300.0	09/28/07 03:21/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3630	umhos/cm		5			1	A2510 B	10/02/07 18:27/jmh
pH	9.37	s.u.		0.01			1	A4500-H B	10/02/07 18:28/jmh
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5			1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5			1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			1	A2540 D	09/27/07 13:35/sn
METALS - DISSOLVED									
Uranium	0.0017	mg/L		0.0003			1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			10	E200.8	10/09/07 03:02/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	10/09/07 03:02/eli-c
METALS - TOTAL									
Arsenic	0.003	mg/L		0.001			1	E200.8	10/08/07 23:09/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/08/07 23:09/eli-c
Boron	0.48	mg/L		0.10			2	E200.7	10/09/07 21:44/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/08/07 23:09/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/08/07 23:09/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/08/07 23:09/eli-c
Iron	0.11	mg/L		0.03			1	E200.7	10/08/07 21:37/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-003
 Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
 Collection Date: 09/26/07 18:40
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - TOTAL								
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Manganese	0.01	mg/L		0.01		1	E200.8	10/08/07 23:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:09/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:09/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:09/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	10/08/07 23:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta	14.0	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.475	%				1	A1030 E	12/10/07 19:56/eli-c
Anions	37.6	meq/L				1	A1030 E	12/10/07 19:56/eli-c
Cations	37.2	meq/L				1	A1030 E	12/10/07 19:56/eli-c
Solids, Total Dissolved Calculated	2550	mg/L				1	A1030 E	12/10/07 19:56/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-003
Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
Collection Date: 09/26/07 18:40
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	12/10/07 19:56/eli-c
- Ion balance achieved using Sulfate data from E200.7.								

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-004
 Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
 Collection Date: 09/26/07 15:30
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	8	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	324	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Bicarbonate as HCO3	395	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Calcium	422	mg/L		1.0		10	E200.7	10/09/07 17:54/eli-c
Chloride	221	mg/L	D	2		50	E300.0	09/28/07 03:54/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/28/07 04:10/jmh
Magnesium	330	mg/L		1.0		10	E200.7	10/09/07 17:54/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 04:10/jmh
Potassium	19	mg/L		1.0		1	E200.7	10/08/07 21:40/eli-c
Silica	11	mg/L		1.0		1	E200.7	10/08/07 21:40/eli-c
Sodium	897	mg/L	D	5.3		10	E200.7	10/08/07 19:58/eli-c
Sulfate	4160	mg/L	D	40		50	E300.0	09/28/07 03:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6590	umhos/cm		5		1	A2510 B	10/02/07 18:29/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	10/02/07 18:29/jmh
Solids, Suspended Sediment SSC @ 105 C	18	mg/L		5		1	D3977	10/05/07 08:39/jmh
Solids, Total Dissolved TDS @ 180 C	6500	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	23	mg/L		5		1	A2540 D	09/27/07 13:36/sn
METALS - DISSOLVED								
Uranium	0.0346	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:10/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:10/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	10/08/07 23:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:16/eli-c
Boron	0.39	mg/L		0.10		2	E200.7	10/09/07 21:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:16/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:16/eli-c
Iron	0.39	mg/L		0.03		1	E200.7	10/08/07 21:40/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090368-004
 Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
 Collection Date: 09/26/07 15:30
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL							
Lead	ND	mg/L		0.001		1	E200.8 10/08/07 23:16/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8 10/08/07 23:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/08/07 23:16/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/08/07 23:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/08/07 23:16/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8 10/08/07 23:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/08/07 23:16/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/08/07 23:16/eli-c
Uranium	0.0348	mg/L		0.0003		1	E200.8 10/08/07 23:16/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/08/07 23:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 10/09/07 21:47/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0 12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	25.6	pCi/L		1.0		1	E900.0 10/12/07 01:09/eli-c
Gross Alpha precision (±)	5.8	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Gross Beta	9.8	pCi/L		2.0		1	E900.0 10/12/07 01:09/eli-c
Gross Beta precision (±)	13.8	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/29/07 11:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.328	%				1	A1030 E 12/10/07 19:57/eli-c
Anions	88.4	meq/L				1	A1030 E 12/10/07 19:57/eli-c
Cations	87.8	meq/L				1	A1030 E 12/10/07 19:57/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-004
Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
Collection Date: 09/26/07 15:30
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Solids, Total Dissolved Calculated	5720	mg/L					1	A1030 E	12/10/07 19:57/eli-c
TDS Balance (0.80 - 1.20)	1.13	dec. %					1	A1030 E	12/10/07 19:57/eli-c
- Ion balance achieved using Sulfate data from E200.7.									

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank				Run: PH_COND1-R_071004A			10/04/07 15:38	
Alkalinity, Total as CaCO ₃	ND	mg/L	3						
Bicarbonate as HCO ₃	ND	mg/L	3						
Carbonate as CO ₃	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: PH_COND1-R_071004A			10/04/07 15:44	
Alkalinity, Total as CaCO ₃	960	mg/L	5.0	96	90	110			
Sample ID: R07090368-001BMS	Sample Matrix Spike				Run: PH_COND1-R_071004A			10/04/07 16:27	
Alkalinity, Total as CaCO ₃	350	mg/L	5.0	96	80	120			
Sample ID: R07090368-002BDUP	Sample Duplicate				Run: PH_COND1-R_071004A			10/04/07 16:36	
Alkalinity, Total as CaCO ₃	78.0	mg/L	5.0					10	
Carbonate as CO ₃	9.59	mg/L	5.0				67	10	R
Bicarbonate as HCO ₃	75.6	mg/L	5.0				12	10	R
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:11	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:12	
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike				Run: BAL-4-R_071002A			10/02/07 13:05	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071002A			10/02/07 13:06	
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 070927A-SLDS-TSS-W		
Sample ID: MBLK1_070927A	Method Blank					Run: BAL-4-R_070927A		09/27/07 13:07	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070927A	Laboratory Control Sample					Run: BAL-4-R_070927A		09/27/07 13:16	
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	111	85	115			
Sample ID: R07090368-004BDUP	Sample Duplicate					Run: BAL-4-R_070927A		09/27/07 13:37	
Solids, Total Suspended TSS @ 105 C	23	mg/L	5.0				0.0	20	
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A		10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Method: A9222 D							Batch: 070927-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank					Run: MEMFILT_070927A		09/27/07 12:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07090372-001A	Sample Duplicate					Run: MEMFILT_070927A		09/27/07 17:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_16355		
Sample ID: MB-16355	Method Blank			Run: SUB-C90934			10/08/07 19:39		
Boron	0.1	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90934			10/08/07 19:42		
Boron	0.61	mg/L	0.10	122	90	110			S
Iron	0.48	mg/L	0.030	95	90	110			
Zinc	0.48	mg/L	0.010	96	90	110			
Calcium	44	mg/L	0.50	88	90	110			S
Magnesium	44	mg/L	0.50	88	90	110			S
Potassium	49	mg/L	0.50	98	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: C07100221-004DMS	Sample Matrix Spike			Run: SUB-C90946			10/08/07 16:45		
Boron	0.65	mg/L	0.10	104	70	130			
Calcium	77	mg/L	0.50	107	70	130			
Magnesium	62	mg/L	0.50	110	70	130			
Potassium	65	mg/L	0.50	103	70	130			
Sodium	57	mg/L	0.50	100	70	130			
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate			Run: SUB-C90946			10/08/07 16:48		
Boron	0.66	mg/L	0.10	105	70	130	0.9	20	
Calcium	77	mg/L	0.50	107	70	130	0.4	20	
Magnesium	61	mg/L	0.50	109	70	130	0.8	20	
Potassium	65	mg/L	0.50	103	70	130	0.5	20	
Sodium	56	mg/L	0.50	99	70	130	0.7	20	
Sample ID: MB-16355	Method Blank			Run: SUB-C91017			10/09/07 15:49		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: LCS-16355	Laboratory Control Sample								10/09/07 16:06
									Run: SUB-C91017
Boron	0.51	mg/L	0.10	101	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Zinc	0.51	mg/L	0.010	101	90	110			
Calcium	47	mg/L	0.50	93	90	110			
Magnesium	47	mg/L	0.50	93	90	110			
Potassium	49	mg/L	0.50	98	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	49	mg/L	0.53	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: MB-16355	Method Blank			Run: SUB-C90947			10/08/07 21:39		
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:46		
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:53		
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:53		
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike			Run: SUB-C90947			10/08/07 23:54		
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate			Run: SUB-C90947			10/09/07 00:24		
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	20	
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16362		
Sample ID: MB-16362	Method Blank				Run: SUB-C90947		10/09/07 00:39		
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-16362	Laboratory Control Sample				Run: SUB-C90947		10/09/07 00:46		
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362	Laboratory Control Sample				Run: SUB-C90947		10/09/07 00:54		
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4	Post Digestion Spike				Run: SUB-C90947		10/09/07 04:10		
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4	Post Digestion Spike Duplicate				Run: SUB-C90947		10/09/07 04:18		
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31614		
Sample ID: LFB0709273313-3	Laboratory Fortified Blank			Run: DIONEX_070927A			09/27/07 18:52		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0709273313-4	Laboratory Fortified Blank			Run: DIONEX_070927A			09/27/07 19:08		
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R07090368-002BMS	Sample Matrix Spike			Run: DIONEX_070927A			09/28/07 02:32		
Chloride	371	mg/L	2.0	92	80	120			
Fluoride	101	mg/L	3.2	101	80	120			
Nitrogen, Nitrate as N	120	mg/L	0.84	96	80	120			
Sulfate	1210	mg/L	36	86	80	120			
Sample ID: R07090368-002BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_070927A			09/28/07 02:48		
Chloride	367	mg/L	2.0	90	80	120	1.1	10	
Fluoride	97.7	mg/L	3.2	98	80	120	3.0	10	
Nitrogen, Nitrate as N	115	mg/L	0.84	92	80	120	4.0	10	
Sulfate	1260	mg/L	36	93	80	120	4.2	10	
Sample ID: R07090345-002AMS	Sample Matrix Spike			Run: DIONEX_070927A			09/28/07 05:32		
Chloride	51.7	mg/L	0.50	77	80	120			S
Fluoride	9.95	mg/L	0.32	92	80	120			
Nitrogen, Nitrate as N	15.6	mg/L	0.10	91	80	120			
Sulfate	143	mg/L	3.6	88	80	120			
Sample ID: R07090345-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_070927A			09/28/07 05:49		
Chloride	52.0	mg/L	0.50	78	80	120	0.6	10	S
Fluoride	9.64	mg/L	0.32	89	80	120	3.2	10	
Nitrogen, Nitrate as N	15.3	mg/L	0.10	89	80	120	2.2	10	
Sulfate	143	mg/L	3.6	88	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31638		
Sample ID: LFB0710013150-3	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:24		
Chloride	4.94	mg/L	0.50	99	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:40		
Chloride	4.65	mg/L	0.50	93	90	110			
Sample ID: R07090352-006AMS	Sample Matrix Spike					Run: DIONEX_071001A	10/02/07 00:30		
Chloride	58.5	mg/L	0.50	92	80	120			
Sample ID: R07090352-006AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A		10/02/07 00:46	
Chloride	56.7	mg/L	0.50	88	80	120	3.2	10	
Method: E900.0							Batch: C_GrAB-0330		
Sample ID: MB-GrAB-0330	Method Blank					Run: SUB-C91156	10/10/07 22:43		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0330	Laboratory Control Sample					Run: SUB-C91156	10/10/07 22:43		
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: Cs137-GrAB-0330	Laboratory Control Sample					Run: SUB-C91156	10/10/07 22:43		
Gross Beta	90	pCi/L	2.0	98	70	130			
Sample ID: C07090855-001AMS	Sample Matrix Spike					Run: SUB-C91156	10/10/07 22:43		
Gross Alpha	400	pCi/L	1.0	72	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C91156		10/10/07 22:43	
Gross Alpha	400	pCi/L	1.0	70	70	130	3.2	13.9	
Sample ID: C07090855-001AMS	Sample Matrix Spike					Run: SUB-C91156	10/10/07 22:43		
Gross Beta	200	pCi/L	2.0	88	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C91156		10/10/07 22:43	
Gross Beta	200	pCi/L	2.0	95	70	130	8.3	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2351		
Sample ID: R07090368-004E Radium 226	Sample Matrix Spike 20	pCi/L	0.20	93	70	130			10/15/07 12:20
Sample ID: R07090368-004E Radium 226	Sample Matrix Spike Duplicate 19	pCi/L	0.20	93	70	130	1.4	28.6	10/15/07 12:20
Sample ID: MB-RA226-2351 Radium 226	Method Blank ND	pCi/L	0.2						10/15/07 13:35
Sample ID: LCS-RA226-2351 Radium 226	Laboratory Control Sample 13	pCi/L	0.20	106	70	130			10/15/07 13:35
Method: E907.0							Batch: C_16513		
Sample ID: R07090368-002G Thorium 230	Sample Duplicate ND	pCi/L	0.20		70	130	0.0	30	10/26/07 10:00
Sample ID: R07090368-004G Thorium 230	Sample Matrix Spike 51.0	pCi/L	0.20	88	70	130			10/26/07 10:00
Method: E907.0							Batch: C_R92301		
Sample ID: LCS-R92301 Thorium 230	Laboratory Control Sample 5.20	pCi/L	0.20	88	70	130			10/29/07 11:00
Sample ID: C07100216-001EDUP Thorium 230	Sample Duplicate ND	pCi/L	0.20				0.0	30	10/29/07 11:00
Sample ID: C07100216-003EMS Thorium 230	Sample Matrix Spike 52.4	pCi/L	0.20	93	70	130			10/29/07 11:00
Sample ID: MB-R92301 Thorium 230	Method Blank ND	pCi/L	0.2						10/29/07 11:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_16513		
Sample ID: R07090368-002G	Sample Duplicate					Run: SUB-C92379			10/24/07 07:00
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike					Run: SUB-C92379			10/24/07 07:00
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: MB-R92379	Method Blank					Run: SUB-C92379			10/24/07 07:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92379	Laboratory Control Sample					Run: SUB-C92379			10/24/07 07:00
Lead 210	80	pCi/L	1.0	100	70	130			
Method: E909.0M							Batch: C_R92396		
Sample ID: R07090368-002E	Sample Duplicate					Run: SUB-C92396			10/25/07 11:25
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: C07100214-001EMS	Sample Matrix Spike					Run: SUB-C92396			10/25/07 11:25
Lead 210	480	pCi/L	1.0	118	70	130			
Sample ID: MB-R92396	Method Blank					Run: SUB-C92396			10/25/07 11:25
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92396	Laboratory Control Sample					Run: SUB-C92396			10/25/07 11:25
Lead 210	94	pCi/L	1.0	116	70	130			
Method: RMO-3008							Batch: C_R91990		
Sample ID: C07100085-005FMS	Sample Matrix Spike					Run: SUB-C91990			10/25/07 16:00
Polonium 210	43	pCi/L	1.0	76	70	130			
Sample ID: C07100085-005FMSD	Sample Matrix Spike Duplicate					Run: SUB-C91990			10/25/07 16:00
Polonium 210	45	pCi/L	1.0	80	70	130	5.6	30	
Sample ID: MB-R91990	Method Blank					Run: SUB-C91990			10/25/07 16:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R91990	Laboratory Control Sample					Run: SUB-C91990			10/25/07 16:00
Polonium 210	20	pCi/L	1.0	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R92111		
Sample ID: MB-R92111 Polonium 210	Method Blank ND	pCi/L	1						
Run: SUB-C92111					10/29/07 13:00				
Sample ID: LCS-R92111 Polonium 210	Laboratory Control Sample 17	pCi/L	1.0	78	70	130			
Run: SUB-C92111					10/29/07 13:00				
Sample ID: C07100214-005EMS Polonium 210	Sample Matrix Spike 170	pCi/L	1.0	77	70	130			
Run: SUB-C92111					10/29/07 13:00				
Sample ID: C07100214-005EMSD Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	77	70	130	0.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

December 26, 2007

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701

Workorder No.: R07090389 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 9/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090389-001	DewBurd SUB07	09/27/07 18:45	09/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Total Selenium, Total Selenium-VI, Total Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090389-002	DewBurd SUB02	09/27/07 18:45	09/28/07	Aqueous	Same As Above
R07090389-003	DewBurd SUB06	09/27/07 18:10	09/28/07	Aqueous	Same As Above
R07090389-004	DewBurd SUB11	09/27/07 17:15	09/28/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-001
 Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Calcium	80	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Chloride	10	mg/L		1		1	E300.0	09/29/07 01:34/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/29/07 01:34/jmh
Magnesium	49	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 01:34/jmh
Potassium	38	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Silica	ND	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Sodium	10	mg/L		0.5		1	E200.7	10/09/07 20:00/eli-c
Sulfate	484	mg/L	D	7		10	E300.0	10/02/07 05:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	972	umhos/cm		5		1	A2510 B	10/02/07 18:48/jmh
pH	3.81	s.u.		0.01		1	A4500-H B	10/02/07 18:49/jmh
Solids, Suspended Sediment SSC @ 105 C	17	mg/L		5		1	D3977	10/05/07 08:39/jmh
Solids, Total Dissolved TDS @ 180 C	680	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	9	mg/L		5		1	A2540 D	10/04/07 08:30/jmh
METALS - DISSOLVED								
Aluminum	1.1	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	10/09/07 20:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Copper	0.01	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Iron	0.44	mg/L		0.03		1	E200.7	10/09/07 20:00/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Manganese	8.21	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Nickel	0.17	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-001
 Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8	10/04/07 18:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Zinc	0.17	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:17/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:17/eli-c
METALS - TOTAL								
Aluminum	1.7	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	10/08/07 16:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:24/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	0.02	mg/L		0.01		1	E200.8	10/08/07 23:24/eli-c
Iron	1.60	mg/L		0.03		1	E200.7	10/08/07 16:20/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Manganese	9.04	mg/L		0.01		1	E200.7	10/08/07 16:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Nickel	0.17	mg/L		0.05		1	E200.8	10/08/07 23:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Uranium	0.0013	mg/L		0.0003		1	E200.8	10/08/07 23:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	10/08/07 16:20/eli-c
Zinc	0.20	mg/L		0.01		1	E200.7	10/08/07 16:20/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/08/07 16:07/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-001
 Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.8	pCi/L		0.2			1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	10/30/07 13:35/eli-c
Thorium 230	0.8	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.7	pCi/L					1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.3			1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.3			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L	D	0.3			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L	D	0.3			1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	5.3	pCi/L		1.0			1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	0.7	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Beta	33.1	pCi/L		2.0			1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	2.0	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.11	%					1	A1030 E	12/10/07 18:58/eli-c
Anions	10.4	meq/L					1	A1030 E	12/10/07 18:58/eli-c
Cations	10.8	meq/L					1	A1030 E	12/10/07 18:58/eli-c
Solids, Total Dissolved Calculated	682	mg/L					1	A1030 E	12/10/07 18:58/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %					1	A1030 E	12/10/07 18:58/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-002
 Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2			A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5			A2320 B	10/04/07 17:23/sn
Carbonate as CO3	ND	mg/L		5			A2320 B	10/04/07 17:23/sn
Bicarbonate as HCO3	112	mg/L		5			A2320 B	10/04/07 17:23/sn
Calcium	622	mg/L		1		10	E200.7	10/09/07 20:20/eli-c
Chloride	23	mg/L		1		5	E300.0	10/02/07 05:58/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 01:50/jmh
Magnesium	212	mg/L		1		10	E200.7	10/09/07 20:20/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 01:50/jmh
Potassium	21	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Silica	2	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Sodium	163	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Sulfate	2840	mg/L	D	40		50	E300.0	10/02/07 05:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3700	umhos/cm		5		1	A2510 B	10/02/07 18:50/jmh
pH	7.99	s.u.		0.01		1	A4500-H B	10/02/07 18:51/jmh
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	10/05/07 08:40/jmh
Solids, Total Dissolved TDS @ 180 C	3900	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	10/04/07 08:30/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	10/09/07 20:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/09/07 20:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Selenium	0.006	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-002
 Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Uranium	0.164	mg/L		0.0003		1	E200.8	10/04/07 19:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:25/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:25/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	10/08/07 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:31/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:31/eli-c
Iron	0.14	mg/L		0.03		1	E200.7	10/08/07 16:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	10/08/07 23:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Uranium	0.168	mg/L		0.0003		1	E200.8	10/08/07 23:31/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	10/08/07 16:23/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	10/08/07 15:48/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:27/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-002
 Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
 Collection Date: 09/27/07 18:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	82.8	pCi/L		1.0			1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	4.5	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Beta	55.9	pCi/L		2.0			1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	7.6	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.01	%					1	A1030 E	12/10/07 18:58/eli-c
Anions	61.6	meq/L					1	A1030 E	12/10/07 18:58/eli-c
Cations	56.8	meq/L					1	A1030 E	12/10/07 18:58/eli-c
Solids, Total Dissolved Calculated	3950	mg/L					1	A1030 E	12/10/07 18:58/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %					1	A1030 E	12/10/07 18:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-003
 Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
 Collection Date: 09/27/07 18:10
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	82	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Bicarbonate as HCO3	100	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Calcium	512	mg/L		1		10	E200.7	10/09/07 20:27/eli-c
Chloride	10	mg/L		1		1	E300.0	09/29/07 02:07/jmh
Fluoride	3.7	mg/L		0.1		1	E300.0	09/29/07 02:07/jmh
Magnesium	771	mg/L		1		10	E200.7	10/09/07 20:27/eli-c
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	09/29/07 02:07/jmh
Potassium	27	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Silica	30	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Sodium	88	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Sulfate	5030	mg/L	D	70		100	E300.0	10/02/07 06:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6210	umhos/cm		5		1	A2510 B	10/02/07 18:52/jmh
pH	3.22	s.u.		0.01		1	A4500-H B	10/02/07 18:52/jmh
Solids, Suspended Sediment SSC @ 105 C	10	mg/L		5		1	D3977	10/05/07 08:40/jmh
Solids, Total Dissolved TDS @ 180 C	8100	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	10/04/07 08:31/jmh
METALS - DISSOLVED								
Aluminum	134	mg/L		0.1		50	E200.8	10/09/07 17:45/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 19:09/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	10/09/07 20:23/eli-c
Cadmium	0.026	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Chromium	ND	mg/L		0.01		50	E200.8	10/09/07 17:45/eli-c
Copper	0.11	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
Iron	4.28	mg/L		0.03		1	E200.7	10/09/07 20:23/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Manganese	223	mg/L		0.01		50	E200.8	10/09/07 17:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 19:09/eli-c
Nickel	5.07	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
Selenium	0.035	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-003
 Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
 Collection Date: 09/27/07 18:10
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Thorium 232	0.011	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Uranium	5.29	mg/L		0.0003		1	E200.8	10/04/07 19:09/eli-c
Vanadium	ND	mg/L		0.1		50	E200.8	10/09/07 17:45/eli-c
Zinc	4.31	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		25	E200.8	10/09/07 03:32/eli-c
Uranium	0.0013	mg/L		0.0003		25	E200.8	10/09/07 03:32/eli-c
METALS - TOTAL								
Aluminum	160	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Arsenic	ND	mg/L	D	0.003		25	E200.8	10/08/07 23:39/eli-c
Barium	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	10/08/07 16:26/eli-c
Cadmium	0.03	mg/L	D	0.01		25	E200.8	10/08/07 23:39/eli-c
Chromium	ND	mg/L		0.05		25	E200.8	10/08/07 23:39/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	0.14	mg/L		0.01		25	E200.8	10/08/07 23:39/eli-c
Iron	4.66	mg/L		0.03		1	E200.7	10/08/07 16:26/eli-c
Lead	ND	mg/L	D	0.003		25	E200.8	10/08/07 23:39/eli-c
Manganese	215	mg/L		0.01		50	E200.8	10/11/07 08:22/eli-c
Mercury	ND	mg/L		0.001		25	E200.8	10/08/07 23:39/eli-c
Molybdenum	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Nickel	6.53	mg/L		0.05		25	E200.8	10/08/07 23:39/eli-c
Silver	ND	mg/L		0.005		25	E200.8	10/08/07 23:39/eli-c
Thorium 232	0.010	mg/L		0.005		25	E200.8	10/08/07 23:39/eli-c
Uranium	7.38	mg/L	D	0.001		25	E200.8	10/08/07 23:39/eli-c
Vanadium	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Zinc	5.55	mg/L		0.01		1	E200.7	10/08/07 16:26/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	0.013	mg/L		0.001		1	A3114 B	10/08/07 16:09/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:29/eli-c
Selenium-VI	0.013	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-003
 Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
 Collection Date: 09/27/07 18:10
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/30/07 14:00/eli-c
Radium 226	4.3	pCi/L		0.2		1	E903.0 10/30/07 13:35/eli-c
Radium 226 precision (±)	1.5	pCi/L				1	E903.0 10/30/07 13:35/eli-c
Thorium 230	23.8	pCi/L		0.2		1	E907.0 10/29/07 15:00/eli-c
Thorium 230 precision (±)	4.6	pCi/L				1	E907.0 10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/24/07 07:00/eli-c
Polonium 210	4.5	pCi/L		1.0		1	RMO-3008 10/30/07 14:00/eli-c
Polonium 210 precision (±)	3.9	pCi/L				1	RMO-3008 10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	3070	pCi/L		1.0		1	E900.0 10/14/07 01:13/eli-c
Gross Alpha precision (±)	33.5	pCi/L				1	E900.0 10/14/07 01:13/eli-c
Gross Beta	2500	pCi/L		2.0		1	E900.0 10/14/07 01:13/eli-c
Gross Beta precision (±)	36.5	pCi/L				1	E900.0 10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 10/04/07 15:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.82	%				1	A1030 E 12/10/07 19:02/eli-c
Anions	119	meq/L				1	A1030 E 12/10/07 19:02/eli-c
Cations	126	meq/L				1	A1030 E 12/10/07 19:02/eli-c
Solids, Total Dissolved Calculated	7090	mg/L				1	A1030 E 12/10/07 19:02/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %				1	A1030 E 12/10/07 19:02/eli-c

- Ion balance achieved using Sulfate data from E200.7.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-004
 Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
 Collection Date: 09/27/07 17:15
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	14	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Calcium	22	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Chloride	4	mg/L		1		1	E300.0	09/29/07 02:23/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 02:23/jmh
Magnesium	6	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 02:23/jmh
Potassium	13	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Silica	8	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Sodium	6	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Sulfate	15	mg/L		1		1	E300.0	09/29/07 02:23/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	202	umhos/cm		5		1	A2510 B	10/02/07 18:55/jmh
pH	7.04	s.u.		0.01		1	A4500-H B	10/02/07 18:55/jmh
Solids, Suspended Sediment SSC @ 105 C	72	mg/L		5		1	D3977	10/05/07 08:41/jmh
Solids, Total Dissolved TDS @ 180 C	220	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	79	mg/L		5		1	A2540 D	10/04/07 08:31/jmh
METALS - DISSOLVED								
Aluminum	0.7	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Arsenic	0.002	mg/L	D	0.002		10	E200.8	10/04/07 19:17/eli-c
Barium	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/09/07 20:30/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Copper	ND	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Iron	1.93	mg/L		0.03		1	E200.7	10/09/07 20:30/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/04/07 19:17/eli-c
Manganese	1.80	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	10/04/07 19:17/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Nickel	0.03	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Selenium	ND	mg/L	D	0.004		10	E200.8	10/04/07 19:17/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-004
 Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
 Collection Date: 09/27/07 17:15
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Uranium	0.0336	mg/L	D	0.0004		10	E200.8	10/04/07 19:17/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Zinc	0.04	mg/L	D	0.02		10	E200.8	10/04/07 19:17/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:40/eli-c
Uranium	0.0004	mg/L		0.0003		10	E200.8	10/09/07 03:40/eli-c
METALS - TOTAL								
Aluminum	1.2	mg/L		0.10		10	E200.8	10/11/07 08:29/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	10/08/07 16:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:46/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:46/eli-c
Iron	ND	mg/L		0.03		1	E200.8	10/08/07 23:46/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Manganese	2.67	mg/L		0.01		1	E200.7	10/08/07 16:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	10/08/07 23:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	10/11/07 08:29/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/08/07 16:12/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090389-004
 Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
 Collection Date: 09/27/07 17:15
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.7	pCi/L		0.2			1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	10/30/07 15:07/eli-c
Thorium 230	1.6	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	1.1	pCi/L					1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	8.2	pCi/L	D	2.0			1	E909.0M	10/24/07 07:00/eli-c
Lead 210 precision (±)	4.4	pCi/L					1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L	D	2.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L	D	0.4			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L	D	0.4			1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	2.9	pCi/L		1.0			1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	0.7	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Beta	10.6	pCi/L		2.0			1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	1.5	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.19	%					1	A1030 E	12/10/07 19:12/eli-c
Anions	2.88	meq/L					1	A1030 E	12/10/07 19:12/eli-c
Cations	2.65	meq/L					1	A1030 E	12/10/07 19:12/eli-c
Solids, Total Dissolved Calculated	155	mg/L					1	A1030 E	12/10/07 19:12/eli-c
TDS Balance (0.80 - 1.20)	1.43	dec. %					1	A1030 E	12/10/07 19:12/eli-c

- TDS balance may have been affected by hydratable solids combined with a relatively clean matrix.

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank					Run: PH_COND1-R_071004A			10/04/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample					Run: PH_COND1-R_071004A			10/04/07 15:44
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090385-002AMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 17:05
Alkalinity, Total as CaCO3	272	mg/L	5.0	108	80	120			
Sample ID: R07090391-003BMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 17:55
Alkalinity, Total as CaCO3	220	mg/L	5.0	96	80	120			
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:11
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:12
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07090389-004BDUP	Sample Duplicate					Run: PH_COND2-R_071002A			10/02/07 18:56
Conductivity @ 25 C	205	umhos/cm	5.0				1.5	10	
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike					Run: BAL-4-R_071002A			10/02/07 13:05
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_071002A			10/02/07 13:06
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071004A-SLDS-TSS-W		
Sample ID: MBLK1_071004A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						10/04/07 08:27
Sample ID: LCS1_071004A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	88	85	115			10/04/07 08:27
Sample ID: R07090389-001BDUP	Sample Duplicate								
Solids, Total Suspended TSS @ 105 C	10	mg/L	5.0				11	20	10/04/07 00:00
Method: A3114 B							Batch: C_SE3114-071008		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						10/08/07 15:21
Sample ID: R07090389-001H	Sample Matrix Spike								
Selenium	0.049	mg/L	0.0010	98	85	115			10/08/07 16:29
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate								
Selenium	0.051	mg/L	0.0010	101	85	115	3.3	10	10/08/07 16:31
Sample ID: 301-98-4	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	99	90	110			10/08/07 16:43
Method: A3114 B							Batch: C_SEIV3114-071010		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						10/10/07 10:23
Sample ID: R07090389-001H	Sample Matrix Spike								
Selenium-IV	0.044	mg/L	0.0010	88	85	115			10/10/07 10:46
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate								
Selenium-IV	0.045	mg/L	0.0010	91	85	115	2.6	10	10/10/07 10:48
Sample ID: 301-98-4	Laboratory Control Sample								
Selenium-IV	0.046	mg/L	0.0010	93	90	110			10/10/07 10:51
Method: A3500-Cr B							Batch: 092807A		
Sample ID: MBLK	Method Blank								
Chromium, Hexavalent	ND	mg/L	0.005						09/28/07 09:00
Sample ID: LCS	Laboratory Control Sample								
Chromium, Hexavalent	0.18	mg/L	0.0050	91	80	120			09/28/07 09:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A	10/02/07 18:08		
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07090389-004BDUP	Sample Duplicate					Run: PH_COND2-R_071002A	10/02/07 18:55		
pH	7.07	s.u.	0.010				0.4	1.25	
Method: A9222 D							Batch: 070928-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank					Run: MEMFILT_070927A	09/28/07 17:00		
Bacteria, Fecal Coliform	ND	CFU/100ml		1					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_16355		
Sample ID: MB-16355	Method Blank		Run: SUB-C90946			10/08/07 16:13			
Boron	0.02	mg/L	0.006						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	0.1	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Sample ID: LCS-16355	Laboratory Control Sample		Run: SUB-C90946			10/08/07 16:16			
Boron	0.522	mg/L	0.10	104	85	115			
Iron	0.511	mg/L	0.030	102	85	115			
Manganese	0.504	mg/L	0.010	101	85	115			
Vanadium	0.520	mg/L	0.10	104	85	115			
Zinc	0.547	mg/L	0.010	109	85	115			
Calcium	54.2	mg/L	0.50	108	85	115			
Magnesium	54.2	mg/L	0.50	108	85	115			
Potassium	51.3	mg/L	0.50	103	85	115			
Silica	0.518	mg/L	0.10	104	0	0			S
Sodium	50.0	mg/L	0.50	100	85	115			
Sample ID: C07100221-004DMS	Sample Matrix Spike		Run: SUB-C90946			10/08/07 16:45			
Boron	0.650	mg/L	0.10	104	70	130			
Iron	23.3	mg/L	0.030		70	130			A
Manganese	3.08	mg/L	0.010		70	130			A
Vanadium	0.523	mg/L	0.10	105	70	130			
Calcium	76.8	mg/L	0.50	107	70	130			
Magnesium	61.5	mg/L	0.50	110	70	130			
Potassium	64.8	mg/L	0.50	103	70	130			
Silica	12.5	mg/L	0.10		70	130			A
Sodium	56.6	mg/L	0.50	100	70	130			
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate		Run: SUB-C90946			10/08/07 16:48			
Boron	0.656	mg/L	0.10	105	70	130	0.9	20	
Iron	23.8	mg/L	0.030		70	130	2.1	20	A
Manganese	3.13	mg/L	0.010		70	130	1.8	20	A
Vanadium	0.528	mg/L	0.10	106	70	130	1.0	20	
Calcium	76.5	mg/L	0.50	107	70	130	0.4	20	
Magnesium	61.0	mg/L	0.50	109	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate					Run: SUB-C90946			10/08/07 16:48
Potassium	64.5	mg/L	0.50	103	70	130	0.5	20	
Silica	12.7	mg/L	0.10		70	130	1.5	20	A
Sodium	56.2	mg/L	0.50	99	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R91021		
Sample ID: LFB-ICP25304	Laboratory Fortified Blank			Run: SUB-C91021			10/09/07 14:30		
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Calcium	50	mg/L	0.50	101	85	125			
Iron	1.9	mg/L	0.030	95	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	48	mg/L	0.50	95	85	125			
Sample ID: LRB	Method Blank			Run: SUB-C91021			10/09/07 14:49		
Boron	ND	mg/L	0.004						
Iron	ND	mg/L	0.002						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Sample ID: C07100085-005CMS	Sample Matrix Spike			Run: SUB-C91021			10/09/07 19:54		
Boron	0.52	mg/L	0.10	94	70	130			
Iron	0.49	mg/L	0.030	91	70	130			
Calcium	200	mg/L	0.50	80	70	130			
Magnesium	81	mg/L	0.50	92	70	130			
Potassium	150	mg/L	0.50	100	70	130			
Silica	11	mg/L	0.10		70	130			A
Sodium	98	mg/L	0.50	84	70	130			
Sample ID: C07100085-005CMSD	Sample Matrix Spike Duplicate			Run: SUB-C91021			10/09/07 19:57		
Boron	0.51	mg/L	0.10	91	70	130	2.5	20	
Iron	0.48	mg/L	0.030	89	70	130	1.9	20	
Calcium	190	mg/L	0.50	72	70	130	2.1	20	
Magnesium	79	mg/L	0.50	87	70	130	3.1	20	
Potassium	150	mg/L	0.50	98	70	130	1.6	20	
Silica	11	mg/L	0.10		70	130	1.9	20	A
Sodium	97	mg/L	0.50	82	70	130	1.1	20	
Sample ID: LFB-ICP25304	Laboratory Fortified Blank			Run: SUB-C91021			10/09/07 20:47		
Boron	2.0	mg/L	0.10	100	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Magnesium	51	mg/L	0.50	103	85	125			
Potassium	48	mg/L	0.50	97	85	125			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R91021
Sample ID: LFB-ICP25304	Laboratory Fortified Blank								Run: SUB-C91021 10/09/07 20:47
Silica	1.9	mg/L	0.10	97	85	125			
Sodium	47	mg/L	0.50	94	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: MB-16355	Method Blank			Run: SUB-C90947			10/08/07 21:39		
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:46		
Aluminum	0.018	mg/L	0.10	92	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:53		
Aluminum	0.49	mg/L	0.10	99	85	115			
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:53		
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike			Run: SUB-C90947			10/08/07 23:54		
Aluminum	0.56	mg/L	0.10		70	130			A
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate			Run: SUB-C90947			10/09/07 00:24		
Aluminum	0.66	mg/L	0.10		70	130	16	20	A
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: C07100221-004D MSD4			Post Digestion Spike Duplicate		Run: SUB-C90947			10/09/07 00:24	
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07090389-004D			Post Digestion Spike		Run: SUB-C91068			10/11/07 08:36	
Arsenic	0.50	mg/L	0.0010	99	70	130			
Barium	0.53	mg/L	0.10	100	70	130			
Cadmium	0.50	mg/L	0.010	99	70	130			
Chromium	0.48	mg/L	0.050	97	70	130			
Copper	0.49	mg/L	0.010	99	70	130			
Lead	0.50	mg/L	0.050	100	70	130			
Manganese	2.9	mg/L	0.010		70	130			A
Mercury	0.050	mg/L	0.0010	100	70	130			
Molybdenum	0.50	mg/L	0.10	100	70	130			
Nickel	0.50	mg/L	0.050	98	70	130			
Selenium	0.50	mg/L	0.0020	99	70	130			
Silver	0.22	mg/L	0.010	108	70	130			
Thorium 232	0.49	mg/L	0.0010	98	70	130			
Uranium	0.50	mg/L	0.00032	99	70	130			
Vanadium	0.49	mg/L	0.10	97	70	130			
Zinc	0.52	mg/L	0.010	99	70	130			
Sample ID: R07090389-004D			Post Digestion Spike Duplicate		Run: SUB-C91068			10/11/07 08:42	
Arsenic	0.50	mg/L	0.0010	99	70	130	0.3	20	
Barium	0.52	mg/L	0.10	99	70	130	1.0	20	
Cadmium	0.49	mg/L	0.010	98	70	130	1.5	20	
Chromium	0.48	mg/L	0.050	95	70	130	1.7	20	
Copper	0.49	mg/L	0.010	97	70	130	1.6	20	
Lead	0.50	mg/L	0.050	99	70	130	0.7	20	
Manganese	2.9	mg/L	0.010		70	130	1.5	20	A
Mercury	0.050	mg/L	0.0010	100	70	130	0.0	20	
Molybdenum	0.50	mg/L	0.10	99	70	130	1.3	20	
Nickel	0.49	mg/L	0.050	96	70	130	2.1	20	
Selenium	0.50	mg/L	0.0020	99	70	130	0.2	20	
Silver	0.22	mg/L	0.010	108	70	130	0.3	20	
Thorium 232	0.49	mg/L	0.0010	98	70	130	0.1	20	
Uranium	0.49	mg/L	0.00032	97	70	130	1.9	20	
Vanadium	0.48	mg/L	0.10	96	70	130	0.9	20	
Zinc	0.52	mg/L	0.010	100	70	130	0.6	20	
Sample ID: LCS1-16355			Laboratory Control Sample		Run: SUB-C91068			10/11/07 08:02	
Aluminum	0.019	mg/L	0.10	82	80	120			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: LCS1-16355	Laboratory Control Sample			Run: SUB-C91068			10/11/07 08:02		
Arsenic	0.018	mg/L	0.0010	89	80	120			
Barium	0.020	mg/L	0.10	99	80	120			
Cadmium	0.019	mg/L	0.010	95	80	120			
Chromium	0.019	mg/L	0.050	95	80	120			
Copper	0.019	mg/L	0.010	95	80	120			
Lead	0.019	mg/L	0.050	96	80	120			
Manganese	0.018	mg/L	0.010	92	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	96	80	120			
Selenium	0.093	mg/L	0.0010	93	80	120			
Silver	0.020	mg/L	0.010	99	80	120			
Thorium 232	0.016	mg/L	0.0010	81	80	120			
Uranium	0.019	mg/L	0.00030	97	80	120			
Vanadium	0.018	mg/L	0.10	92	80	120			
Zinc	0.021	mg/L	0.010	96	80	120			
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C91068			10/11/07 08:09		
Aluminum	0.48	mg/L	0.10	95	85	115			
Arsenic	0.48	mg/L	0.0010	96	85	115			
Barium	0.48	mg/L	0.10	96	85	115			
Cadmium	0.48	mg/L	0.010	97	85	115			
Chromium	0.46	mg/L	0.050	92	85	115			
Copper	0.47	mg/L	0.010	95	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.47	mg/L	0.010	94	85	115			
Molybdenum	0.48	mg/L	0.10	96	85	115			
Nickel	0.48	mg/L	0.050	96	85	115			
Selenium	0.48	mg/L	0.0020	96	85	115			
Silver	0.23	mg/L	0.010	113	85	115			
Uranium	0.50	mg/L	0.00032	100	85	115			
Vanadium	0.47	mg/L	0.10	94	85	115			
Zinc	0.51	mg/L	0.010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16362		
Sample ID: MB-16362	Method Blank								
Uranium	ND	mg/L	4E-05						10/09/07 00:39
Sample ID: LCS1-16362							Run: SUB-C90947		
Laboratory Control Sample									10/09/07 00:46
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362							Run: SUB-C90947		
Laboratory Control Sample									10/09/07 00:54
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4							Run: SUB-C90947		
Post Digestion Spike									10/09/07 04:10
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4							Run: SUB-C90947		
Post Digestion Spike Duplicate									10/09/07 04:18
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R90827			
Sample ID: LRB	Method Blank		Run: SUB-C90827			10/04/07 12:35				
Aluminum	ND	mg/L	0.0002							
Arsenic	ND	mg/L	0.0002							
Barium	ND	mg/L	9E-05							
Cadmium	0.0002	mg/L	0.0002							
Chromium	ND	mg/L	0.0001							
Copper	ND	mg/L	0.0001							
Lead	ND	mg/L	2E-05							
Manganese	3E-05	mg/L	3E-05							
Mercury	7E-05	mg/L	6E-06							
Molybdenum	0.0005	mg/L	7E-05							
Nickel	0.0003	mg/L	8E-05							
Selenium	ND	mg/L	0.0004							
Silver	ND	mg/L	3E-05							
Thorium 232	0.00010	mg/L	6E-05							
Uranium	ND	mg/L	4E-05							
Vanadium	ND	mg/L	9E-05							
Zinc	ND	mg/L	0.002							
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C90827			10/04/07 12:42				
Aluminum	0.0497	mg/L	0.0010	99	85	115				
Arsenic	0.0496	mg/L	0.0010	99	85	115				
Barium	0.0490	mg/L	0.0010	98	85	115				
Cadmium	0.0500	mg/L	0.0010	100	85	115				
Chromium	0.0493	mg/L	0.0010	99	85	115				
Copper	0.0504	mg/L	0.0010	101	85	115				
Lead	0.0498	mg/L	0.0010	100	85	115				
Manganese	0.0492	mg/L	0.0010	98	85	115				
Mercury	0.00506	mg/L	0.0010	100	85	115				
Molybdenum	0.0504	mg/L	0.0010	100	85	115				
Nickel	0.0506	mg/L	0.0010	101	85	115				
Selenium	0.0495	mg/L	0.0010	99	85	115				
Silver	0.0197	mg/L	0.0010	98	85	115				
Thorium 232	0.0499	mg/L	0.0010	100	85	115				
Uranium	0.0504	mg/L	0.00030	101	85	115				
Vanadium	0.0497	mg/L	0.0010	99	85	115				
Zinc	0.0528	mg/L	0.0021	106	85	115				
Sample ID: C07100156-001EMS4	Post Digestion Spike		Run: SUB-C90827			10/04/07 18:32				
Aluminum	0.245	mg/L	0.10	97	70	130				
Arsenic	0.258	mg/L	0.0010	102	70	130				
Barium	0.357	mg/L	0.10	101	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: C07100156-001EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 18:32		
Cadmium	0.247	mg/L	0.010	99	70	130			
Chromium	0.245	mg/L	0.050	98	70	130			
Copper	0.251	mg/L	0.010	97	70	130			
Lead	0.255	mg/L	0.050	102	70	130			
Manganese	0.248	mg/L	0.010	98	70	130			
Mercury	0.0257	mg/L	0.0010	103	70	130			
Molybdenum	0.262	mg/L	0.10	103	70	130			
Nickel	0.247	mg/L	0.050	97	70	130			
Selenium	0.246	mg/L	0.0020	97	70	130			
Silver	0.0828	mg/L	0.010	83	70	130			
Thorium 232	0.252	mg/L	0.0010	100	70	130			
Uranium	0.305	mg/L	0.00030	105	70	130			
Vanadium	0.259	mg/L	0.10	101	70	130			
Zinc	0.275	mg/L	0.010	100	70	130			
Sample ID: C07100156-001EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90827			10/04/07 18:39		
Aluminum	0.251	mg/L	0.10	99	70	130	2.2	20	
Arsenic	0.257	mg/L	0.0010	101	70	130	0.1	20	
Barium	0.356	mg/L	0.10	101	70	130	0.2	20	
Cadmium	0.247	mg/L	0.010	99	70	130	0.1	20	
Chromium	0.247	mg/L	0.050	98	70	130	0.6	20	
Copper	0.252	mg/L	0.010	98	70	130	0.2	20	
Lead	0.257	mg/L	0.050	103	70	130	0.7	20	
Manganese	0.250	mg/L	0.010	98	70	130	0.5	20	
Mercury	0.0258	mg/L	0.0010	103	70	130	0.8	20	
Molybdenum	0.261	mg/L	0.10	103	70	130	0.5	20	
Nickel	0.240	mg/L	0.050	95	70	130	2.7	20	
Selenium	0.249	mg/L	0.0020	98	70	130	1.3	20	
Silver	0.0893	mg/L	0.010	89	70	130	7.6	20	
Thorium 232	0.261	mg/L	0.0010	104	70	130	3.7	20	
Uranium	0.308	mg/L	0.00030	107	70	130	1.0	20	
Vanadium	0.259	mg/L	0.10	101	70	130	0.1	20	
Zinc	0.274	mg/L	0.010	100	70	130	0.5	20	
Sample ID: C07100175-002EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 20:17		
Thorium 232	0.0494	mg/L	0.0010	99	70	130			
Aluminum	0.0420	mg/L	0.10	84	70	130			
Arsenic	0.0538	mg/L	0.0010	103	70	130			
Barium	0.272	mg/L	0.10		70	130			A
Cadmium	0.0498	mg/L	0.0010	100	70	130			
Chromium	0.0498	mg/L	0.050	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: C07100175-002EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 20:17		
Copper	0.0585	mg/L	0.010	96	70	130			
Lead	0.0575	mg/L	0.0010	99	70	130			
Manganese	0.0472	mg/L	0.010	92	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Molybdenum	0.0518	mg/L	0.10	100	70	130			
Nickel	0.0556	mg/L	0.050	97	70	130			
Selenium	0.0546	mg/L	0.0010	107	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Uranium	0.0619	mg/L	0.00030	101	70	130			
Vanadium	0.0529	mg/L	0.10	99	70	130			
Zinc	0.181	mg/L	0.010	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100175-002EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90827			10/04/07 20:24		
Thorium 232	0.0517	mg/L	0.0010	103	70	130	4.5	20	
Aluminum	0.0420	mg/L	0.10	84	70	130	0.0	20	
Arsenic	0.0545	mg/L	0.0010	105	70	130	1.2	20	
Barium	0.272	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0497	mg/L	0.0010	99	70	130	0.2	20	
Chromium	0.0506	mg/L	0.050	97	70	130	1.5	20	
Copper	0.0591	mg/L	0.010	97	70	130	1.0	20	
Lead	0.0580	mg/L	0.0010	100	70	130	0.8	20	
Manganese	0.0482	mg/L	0.010	95	70	130	2.1	20	
Mercury	0.00507	mg/L	0.0010	101	70	130	2.9	20	
Molybdenum	0.0520	mg/L	0.10	100	70	130	0.0	20	
Nickel	0.0565	mg/L	0.050	99	70	130	1.6	20	
Selenium	0.0549	mg/L	0.0010	107	70	130	0.7	20	
Silver	0.0176	mg/L	0.010	88	70	130	26	20	R
Uranium	0.0634	mg/L	0.00030	104	70	130	2.5	20	
Vanadium	0.0539	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.182	mg/L	0.010	102	70	130	0.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827			10/05/07 01:53		
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0496	mg/L	0.0010	99	85	115			
Cadmium	0.0486	mg/L	0.0010	97	85	115			
Chromium	0.0474	mg/L	0.0010	95	85	115			
Copper	0.0495	mg/L	0.0010	99	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Manganese	0.0477	mg/L	0.0010	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827			10/05/07 01:53		
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0486	mg/L	0.0010	97	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Thorium 232	0.0482	mg/L	0.0010	96	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0477	mg/L	0.0010	95	85	115			
Zinc	0.0512	mg/L	0.0021	102	85	115			
Method: E200.8							Batch: C_R91005		
Sample ID: LRB	Method Blank			Run: SUB-C91005			10/09/07 11:34		
Aluminum	ND	mg/L	0.0001						
Chromium	4E-05	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C91005			10/09/07 11:41		
Aluminum	0.0496	mg/L	0.0010	99	85	115			
Chromium	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Vanadium	0.0496	mg/L	0.0010	99	85	115			
Sample ID: R07090389-003G	Post Digestion Spike			Run: SUB-C91005			10/09/07 17:52		
Aluminum	136	mg/L	0.10		70	130			A
Chromium	2.55	mg/L	0.050	102	70	130			
Manganese	226	mg/L	0.010		70	130			A
Vanadium	2.45	mg/L	0.10	98	70	130			
Sample ID: R07090389-003G	Post Digestion Spike Duplicate			Run: SUB-C91005			10/09/07 17:58		
Aluminum	134	mg/L	0.10		70	130	1.6	20	A
Chromium	2.51	mg/L	0.050	100	70	130	1.7	20	
Manganese	226	mg/L	0.010		70	130	0.4	20	A
Vanadium	2.45	mg/L	0.10	98	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31616		
Sample ID: LFB0709285802-3	Laboratory Fortified Blank				Run: DIONEX_070928A		09/28/07 21:11		
Chloride	4.70	mg/L	0.50	94	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0709285802-4	Laboratory Fortified Blank				Run: DIONEX_070928A		09/28/07 21:27		
Nitrogen, Nitrate as N	2.68	mg/L	0.10	107	90	110			
Sample ID: R07100002-001AMS	Sample Matrix Spike				Run: DIONEX_070928A		09/29/07 20:57		
Chloride	97.4	mg/L	0.50		80	120			A
Fluoride	2.27	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Sulfate	1240	mg/L	1.0		80	120			A
Sample ID: R07100002-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070928A		09/29/07 21:13		
Chloride	96.9	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.24	mg/L	0.10	89	80	120	1.3	10	
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120	3.5	10	
Sulfate	1220	mg/L	1.0		80	120	1.1	10	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31638		
Sample ID: LFB0710013150-3	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:24		
Chloride	4.94	mg/L	0.50	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:40		
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R07090385-001AMS	Sample Matrix Spike					Run: DIONEX_071001A	10/02/07 03:47		
Chloride	106	mg/L	0.80	93	80	120			
Sulfate	1610	mg/L	14		80	120			A
Sample ID: R07090385-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A	10/02/07 04:03		
Chloride	105	mg/L	0.80	91	80	120	1.1	10	
Sulfate	1590	mg/L	14		80	120	1.2	10	A
Sample ID: R07090389-003BMS	Sample Matrix Spike					Run: DIONEX_071001A	10/02/07 07:04		
Chloride	494	mg/L	4.0	92	80	120			
Sulfate	6780	mg/L	72	117	80	120			
Sample ID: R07090389-003BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A	10/02/07 07:20		
Chloride	482	mg/L	4.0	89	80	120	2.4	10	
Sulfate	6530	mg/L	72	100	80	120	6.4	10	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0331		
Sample ID: RB-GrAB-0331	Method Blank								
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0331	Laboratory Control Sample								
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike								
Gross Alpha	200	pCi/L	1.0	86	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	200	pCi/L	1.0	82	70	130	4.1	13.7	
Sample ID: Cs137-GrAB-0331	Laboratory Control Sample								
Gross Beta	90	pCi/L	2.0	93	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike								
Gross Beta	90	pCi/L	2.0	90	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate								
Gross Beta	90	pCi/L	2.0	90	70	130	0.5	15.5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R90863		
Sample ID: LCS-R90863	Laboratory Control Sample				Run: SUB-C90863		10/04/07 15:30		
Americium 241	730	pCi/L	20	90	70	130			
Cesium 137	1100	pCi/L	20	80	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R90863	Method Blank				Run: SUB-C90863		10/04/07 15:30		
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07090389-004E	Sample Duplicate				Run: SUB-C90863		10/04/07 15:30		
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2384		
Sample ID: C07100798-002AMS	Sample Matrix Spike					Run: SUB-C92054			10/30/07 15:07
Radium 226	48	pCi/L	0.20	92	70	130			
- MS and MSD were inadvertently spiked at double the standard amount.									
Sample ID: C07100798-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C92054			10/30/07 15:07
Radium 226	60	pCi/L	0.20	120	70	130	22	21	R
- MS and MSD were inadvertently spiked at double the standard amount. - The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-2384	Method Blank					Run: SUB-C92054			10/30/07 16:33
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2384	Laboratory Control Sample					Run: SUB-C92054			10/30/07 16:33
Radium 226	13	pCi/L	0.20	104	70	130			
Method: E907.0							Batch: C_16513		
Sample ID: R07090368-002G	Sample Duplicate					Run: SUB-C92213			10/26/07 10:00
Thorium 230	ND	pCi/L	0.20		70	130	0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike					Run: SUB-C92213			10/26/07 10:00
Thorium 230	51.0	pCi/L	0.20	88	70	130			
Method: E907.0							Batch: C_R92443		
Sample ID: LCS-R92443	Laboratory Control Sample					Run: SUB-C92443			10/29/07 15:00
Thorium 230	5.7	pCi/L	0.20	97	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike					Run: SUB-C92443			10/29/07 15:00
Thorium 230	21	pCi/L	0.20	105	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike Duplicate					Run: SUB-C92443			10/29/07 15:00
Thorium 230	21	pCi/L	0.20	106	70	130	0.5	30	
Sample ID: MB-R92443	Method Blank					Run: SUB-C92443			10/29/07 15:00
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_16513
Sample ID: R07090368-002G	Sample Duplicate								Run: SUB-C92379 10/24/07 07:00
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike								Run: SUB-C92379 10/24/07 07:00
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: MB-R92379	Method Blank								Run: SUB-C92379 10/24/07 07:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92379	Laboratory Control Sample								Run: SUB-C92379 10/24/07 07:00
Lead 210	80	pCi/L	1.0	100	70	130			
Method: E909.0M									Batch: C_R92528
Sample ID: R07090385-001E	Sample Matrix Spike								Run: SUB-C92528 10/26/07 09:00
Lead 210	340	pCi/L	1.0	84	70	130			
Sample ID: R07090385-001E	Sample Matrix Spike Duplicate								Run: SUB-C92528 10/26/07 09:00
Lead 210	340	pCi/L	1.0	83	70	130	0.3	30	
Sample ID: MB-R92528	Method Blank								Run: SUB-C92528 10/26/07 09:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92528	Laboratory Control Sample								Run: SUB-C92528 10/26/07 09:00
Lead 210	66	pCi/L	1.0	82	70	130			
Method: RMO-3008									Batch: C_R92119
Sample ID: MB-R92119	Method Blank								Run: SUB-C92119 10/30/07 14:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92119	Laboratory Control Sample								Run: SUB-C92119 10/30/07 14:00
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike								Run: SUB-C92119 10/30/07 14:00
Polonium 210	89	pCi/L	1.0	80	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike Duplicate								Run: SUB-C92119 10/30/07 14:00
Polonium 210	87	pCi/L	1.0	78	70	130	2.5	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC Report Mail Address: _____		Project Name, PWS #, Permit #, Etc.: Power Train Dairy Burdock Contact Name, Phone, Fax, E-mail: Cory Foreman		Invoice Address: _____ Invoice Contact & Phone #: _____		Purchase Order #: _____ EL Quote #: _____		Sampler Name if other than Contact: Eric Krantz	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/> Other _____ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ EDD/EDT <input type="checkbox"/> Format _____		Number of Containers _____ Sample Type: A W S V B O Solis/Solids Vegetation Joassay Other		ANALYSIS REQUESTED SEE ATTACHED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: _____		Receipt Temp 6.8 °C 100 °F Cooler ID(s) _____ Custody Seal Y N Intact Y N Signature Y N Match _____	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	M	LABORATORY USE ONLY	LABORATORY USE ONLY	LABORATORY USE ONLY	LABORATORY USE ONLY	LABORATORY USE ONLY	LABORATORY USE ONLY
1 Dew Burd Gw 619	9/27/07	17:45							
2 Dew Burd Sub 07	9/28/07	18:45							
3 Dew Burd Sub 02	9/27/07	16:45							
4 Dew Burd Sub 06	9/27/07	16:16							
5 Dew Burd Gw 16	9/27/07	14:18							
6 Dew Burd Gw 402 A	9/27/07	14:35							
7 Dew Burd Gw 402 B	9/27/07	14:39							
8 Dew Burd Gw 13	9/27/07	15:45							
9 Dew Burd Sub 11	9/27/07	17:15							
10									

Handwritten notes: "Should be 16:45 in .pdf" with an arrow pointing to row 3. "DO NOT" written over the "ANALYSIS REQUESTED" section.

Relinquished by: **Cory Foreman** Date: **9/28/07 (9:37)** Shipped by: _____

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Requested by: _____ Date/Time: **9/28/07 09:40**

Sample Disposal: _____ Return to client: _____ Lab Disposal: _____

Sample Type: _____ # of fractions: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service is subject to the availability of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 26, 2007

Dan Hoyer
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701

Workorder No.: R07100001 Quote ID: R286

Project Name: Edgemont

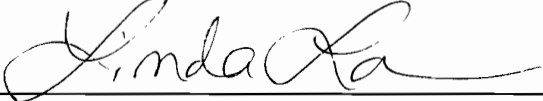
Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 9/29/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07100001-001	DewBurd BVC04	09/28/07 8:16	09/29/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Total Selenium, Total Selenium-VI, Total Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100001-001
 Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
 Collection Date: 09/28/07 08:16
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2			A9222 D	09/29/07 08:15/kl
MAJOR IONS								
Alkalinity, Total as CaCO3	110	mg/L		5			A2320 B	10/04/07 17:57/sn
Carbonate as CO3	ND	mg/L		5			A2320 B	10/04/07 17:57/sn
Bicarbonate as HCO3	134	mg/L		5			A2320 B	10/04/07 17:57/sn
Calcium	288	mg/L		1			E200.7	10/08/07 20:51/eli-c
Chloride	1310	mg/L	D	4		100	E300.0	10/05/07 00:23/jmh
Fluoride	ND	mg/L		0.1			E300.0	10/01/07 21:46/jmh
Magnesium	171	mg/L		1			E200.7	10/08/07 20:51/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1			E300.0	10/01/07 21:46/jmh
Potassium	10	mg/L		1			E200.7	10/08/07 20:51/eli-c
Silica	1	mg/L		1			E200.7	10/08/07 20:51/eli-c
Sodium	1100	mg/L	D	8		10	E200.7	10/08/07 17:57/eli-c
Sulfate	2520	mg/L	D	70		100	E300.0	10/05/07 00:23/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7030	umhos/cm		5			A2510 B	10/02/07 18:58/jmh
pH	8.23	s.u.		0.01			A4500-H B	10/02/07 18:58/jmh
Solids, Suspended Sediment SSC @ 105 C	86	mg/L		5			D3977	10/05/07 08:44/jmh
Solids, Total Dissolved TDS @ 180 C	5600	mg/L		5			A2540 C	10/02/07 13:09/sn
Solids, Total Suspended TSS @ 105 C	47	mg/L		5			A2540 D	10/04/07 08:34/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1			E200.8	10/04/07 20:39/eli-c
Arsenic	0.001	mg/L		0.001			E200.8	10/04/07 20:39/eli-c
Barium	ND	mg/L		0.1			E200.8	10/04/07 20:39/eli-c
Boron	0.5	mg/L		0.1			E200.7	10/08/07 20:51/eli-c
Cadmium	ND	mg/L		0.005			E200.8	10/04/07 20:39/eli-c
Chromium	ND	mg/L		0.01			E200.8	10/04/07 20:39/eli-c
Copper	ND	mg/L		0.01			E200.8	10/04/07 20:39/eli-c
Iron	ND	mg/L		0.03			E200.7	10/08/07 20:51/eli-c
Lead	ND	mg/L		0.001			E200.8	10/04/07 20:39/eli-c
Manganese	0.02	mg/L		0.01			E200.8	10/04/07 20:39/eli-c
Mercury	ND	mg/L		0.001			E200.8	10/04/07 20:39/eli-c
Molybdenum	ND	mg/L		0.1			E200.8	10/04/07 20:39/eli-c
Nickel	ND	mg/L		0.01			E200.8	10/04/07 20:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100001-001
 Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
 Collection Date: 09/28/07 08:16
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Selenium	0.003	mg/L		0.001		1	E200.8	10/04/07 20:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 20:39/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 20:39/eli-c
Uranium	0.0140	mg/L		0.0003		1	E200.8	10/04/07 20:39/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 20:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:39/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:39/eli-c
METALS - TOTAL								
Aluminum	2.0	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Boron	0.40	mg/L		0.10		2	E200.7	10/09/07 21:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 22:46/eli-c
Chromium, Hexavalent	ND	mg/L	H	0.005		1	A3500-Cr B	10/03/07 08:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 22:46/eli-c
Iron	1.34	mg/L		0.03		1	E200.7	10/08/07 20:58/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Manganese	0.10	mg/L		0.01		1	E200.8	10/08/07 22:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 22:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Uranium	0.0137	mg/L		0.0003		1	E200.8	10/08/07 22:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:34/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/11/07 17:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/12/07 09:25/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 2 of 3
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100001-001
 Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
 Collection Date: 09/28/07 08:16
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/30/07 13:35/eli-c
Thorium 230	1.7	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	1.5	pCi/L					1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		2.0			1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		2.0			1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.9			1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		2.0			1	E907.0	10/26/07 10:00/eli-c
- Suspended RLs raised due to low sample volume.									
RADIONUCLIDES - TOTAL									
Gross Alpha	2.3	pCi/L		1.0			1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	4.9	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Gross Beta	ND	pCi/L		2.0			1	E900.0	10/12/07 01:09/eli-c
Radium 226	0.7	pCi/L		0.2			1	E903.0	10/15/07 12:20/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	10/15/07 12:20/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.55	%					1	A1030 E	12/10/07 18:22/eli-c
Anions	91.7	meq/L					1	A1030 E	12/10/07 18:22/eli-c
Cations	85.4	meq/L					1	A1030 E	12/10/07 18:22/eli-c
Solids, Total Dissolved Calculated	5640	mg/L					1	A1030 E	12/10/07 18:22/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %					1	A1030 E	12/10/07 18:22/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank					Run: PH_COND1-R_071004A			10/04/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample					Run: PH_COND1-R_071004A			10/04/07 15:44
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090391-003BMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 17:55
Alkalinity, Total as CaCO3	220	mg/L	5.0	96	80	120			
Sample ID: R07100001-001BDUP	Sample Duplicate					Run: PH_COND1-R_071004A			10/04/07 17:59
Alkalinity, Total as CaCO3	106	mg/L	5.0				3.7	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	129	mg/L	5.0				3.7	10	
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:11
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:12
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike					Run: BAL-4-R_071002A			10/02/07 13:05
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_071002A			10/02/07 13:06
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071004A-SLDS-TSS-W		
Sample ID: MBLK1_071004A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						10/04/07 08:27
Sample ID: LCS1_071004A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	88	85	115			10/04/07 08:27
Sample ID: R07100001-001BDUP	Sample Duplicate								
Solids, Total Suspended TSS @ 105 C	48	mg/L	5.0				2.1	20	10/04/07 00:00
Method: A3114 B							Batch: C_SE3114-071011		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						10/11/07 16:54
Sample ID: 301-98-4	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	100	90	110			10/11/07 17:14
Method: A3114 B							Batch: C_SEIV3114-071010		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						10/10/07 10:23
Sample ID: R07090389-001H	Sample Matrix Spike								
Selenium-IV	0.044	mg/L	0.0010	88	85	115			10/10/07 10:46
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate								
Selenium-IV	0.045	mg/L	0.0010	91	85	115	2.6	10	10/10/07 10:48
Sample ID: 301-98-4	Laboratory Control Sample								
Selenium-IV	0.046	mg/L	0.0010	93	90	110			10/10/07 10:51
Method: A3500-Cr B							Batch: 100307A		
Sample ID: MBLK	Method Blank								
Chromium, Hexavalent	ND	mg/L	0.005						10/03/07 08:30
Sample ID: LCS	Laboratory Control Sample								
Chromium, Hexavalent	0.20	mg/L	0.0050	101	80	120			10/03/07 08:30
Sample ID: R07100001-001B	Sample Matrix Spike								
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			10/03/07 08:30
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample								
pH	6.85	s.u.	0.010	100	98.55	101.45			10/02/07 18:08

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D							Batch: 070929-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank					Run: MEMFILT_070929A	09/29/07 08:15		
Bacteria, Fecal Coliform	ND	CFU/100ml		1					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_16355		
Sample ID: MB-16355	Method Blank		Run: SUB-C90934			10/08/07 19:39			
Boron	0.1	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample		Run: SUB-C90934			10/08/07 19:42			
Boron	0.61	mg/L	0.10	122	90	110			S
Iron	0.48	mg/L	0.030	95	90	110			
Zinc	0.48	mg/L	0.010	96	90	110			
Calcium	44	mg/L	0.50	88	90	110			S
Magnesium	44	mg/L	0.50	88	90	110			S
Potassium	49	mg/L	0.50	98	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: MB-16355	Method Blank		Run: SUB-C91017			10/09/07 15:49			
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample		Run: SUB-C91017			10/09/07 16:06			
Boron	0.51	mg/L	0.10	101	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Zinc	0.51	mg/L	0.010	101	90	110			
Calcium	47	mg/L	0.50	93	90	110			
Magnesium	47	mg/L	0.50	93	90	110			
Potassium	49	mg/L	0.50	98	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	49	mg/L	0.53	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R90934		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 14:46		
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	95	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 14:49		
Calcium	25	mg/L	0.50	102	85	125			
Magnesium	25	mg/L	0.50	100	85	125			
Potassium	28	mg/L	0.50	110	85	125			
Sodium	25	mg/L	0.76	102	85	125			
Sample ID: C07100214-001CMS	Sample Matrix Spike			Run: SUB-C90934			10/08/07 17:18		
Boron	9.32	mg/L	0.10	93	70	130			
Iron	9.09	mg/L	0.046	91	70	130			
Calcium	449	mg/L	1.0	84	70	130			
Magnesium	432	mg/L	0.50	84	70	130			
Potassium	1130	mg/L	0.50	93	70	130			
Silica	16.0	mg/L	0.20	85	70	130			
Sodium	681	mg/L	7.6	86	70	130			
Sample ID: C07100214-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C90934			10/08/07 17:21		
Boron	9.66	mg/L	0.10	97	70	130	3.6	20	
Iron	9.41	mg/L	0.046	94	70	130	3.5	20	
Calcium	459	mg/L	1.0	86	70	130	2.1	20	
Magnesium	439	mg/L	0.50	86	70	130	1.7	20	
Potassium	1150	mg/L	0.50	95	70	130	1.7	20	
Silica	16.4	mg/L	0.20	90	70	130	2.5	20	
Sodium	698	mg/L	7.6	90	70	130	2.5	20	
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 22:59		
Silica	1.8	mg/L	0.10	91	85	125			
Boron	1.9	mg/L	0.10	94	85	125			
Iron	1.8	mg/L	0.030	88	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 23:02		
Potassium	27	mg/L	0.50	109	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: MB-16355	Method Blank		Run: SUB-C90947			10/08/07 21:39			
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample		Run: SUB-C90947			10/08/07 21:46			
Aluminum	0.018	mg/L	0.10	92	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample		Run: SUB-C90947			10/08/07 21:53			
Aluminum	0.49	mg/L	0.10	99	85	115			
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: LCS-16355	Laboratory Control Sample			Run: SUB-C90947			10/08/07 21:53		
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike			Run: SUB-C90947			10/08/07 23:54		
Aluminum	0.56	mg/L	0.10		70	130			A
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate			Run: SUB-C90947			10/09/07 00:24		
Aluminum	0.66	mg/L	0.10		70	130	16	20	A
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16355		
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate			Run: SUB-C90947		10/09/07 00:24			
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.8							Batch: C_16362		
Sample ID: MB-16362	Method Blank			Run: SUB-C90947		10/09/07 00:39			
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-16362	Laboratory Control Sample			Run: SUB-C90947		10/09/07 00:46			
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362	Laboratory Control Sample			Run: SUB-C90947		10/09/07 00:54			
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4	Post Digestion Spike			Run: SUB-C90947		10/09/07 04:10			
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4	Post Digestion Spike Duplicate			Run: SUB-C90947		10/09/07 04:18			
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: LRB	Method Blank		Run: SUB-C90827			10/04/07 12:35			
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	0.0002	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	3E-05	mg/L	3E-05						
Mercury	7E-05	mg/L	6E-06						
Molybdenum	0.0005	mg/L	7E-05						
Nickel	0.0003	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Thorium 232	0.00010	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C90827			10/04/07 12:42			
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0493	mg/L	0.0010	99	85	115			
Copper	0.0504	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00506	mg/L	0.0010	100	85	115			
Molybdenum	0.0504	mg/L	0.0010	100	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0197	mg/L	0.0010	98	85	115			
Thorium 232	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Zinc	0.0528	mg/L	0.0021	106	85	115			
Sample ID: C07100175-002EMS4	Post Digestion Spike		Run: SUB-C90827			10/04/07 20:17			
Thorium 232	0.0494	mg/L	0.0010	99	70	130			
Aluminum	0.0420	mg/L	0.10	84	70	130			
Arsenic	0.0538	mg/L	0.0010	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R90827			
Sample ID: C07100175-002EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 20:17			
Barium	0.272	mg/L	0.10		70	130			A	
Cadmium	0.0498	mg/L	0.0010	100	70	130				
Chromium	0.0498	mg/L	0.050	96	70	130				
Copper	0.0585	mg/L	0.010	96	70	130				
Lead	0.0575	mg/L	0.0010	99	70	130				
Manganese	0.0472	mg/L	0.010	92	70	130				
Mercury	0.00492	mg/L	0.0010	98	70	130				
Molybdenum	0.0518	mg/L	0.10	100	70	130				
Nickel	0.0556	mg/L	0.050	97	70	130				
Selenium	0.0546	mg/L	0.0010	107	70	130				
Silver	0.0135	mg/L	0.010	68	70	130			S	
Uranium	0.0619	mg/L	0.00030	101	70	130				
Vanadium	0.0529	mg/L	0.10	99	70	130				
Zinc	0.181	mg/L	0.010	100	70	130				
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)										
Sample ID: C07100175-002EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90827			10/04/07 20:24			
Thorium 232	0.0517	mg/L	0.0010	103	70	130	4.5	20		
Aluminum	0.0420	mg/L	0.10	84	70	130	0.0	20		
Arsenic	0.0545	mg/L	0.0010	105	70	130	1.2	20		
Barium	0.272	mg/L	0.10		70	130	0.1	20	A	
Cadmium	0.0497	mg/L	0.0010	99	70	130	0.2	20		
Chromium	0.0506	mg/L	0.050	97	70	130	1.5	20		
Copper	0.0591	mg/L	0.010	97	70	130	1.0	20		
Lead	0.0580	mg/L	0.0010	100	70	130	0.8	20		
Manganese	0.0482	mg/L	0.010	95	70	130	2.1	20		
Mercury	0.00507	mg/L	0.0010	101	70	130	2.9	20		
Molybdenum	0.0520	mg/L	0.10	100	70	130	0.0	20		
Nickel	0.0565	mg/L	0.050	99	70	130	1.6	20		
Selenium	0.0549	mg/L	0.0010	107	70	130	0.7	20		
Silver	0.0176	mg/L	0.010	88	70	130	26	20	R	
Uranium	0.0634	mg/L	0.00030	104	70	130	2.5	20		
Vanadium	0.0539	mg/L	0.10	101	70	130	0.0	20		
Zinc	0.182	mg/L	0.010	102	70	130	0.5	20		
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)										
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827			10/05/07 01:53			
Arsenic	0.0494	mg/L	0.0010	99	85	115				
Barium	0.0496	mg/L	0.0010	99	85	115				
Cadmium	0.0486	mg/L	0.0010	97	85	115				
Chromium	0.0474	mg/L	0.0010	95	85	115				

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827			10/05/07 01:53		
Copper	0.0495	mg/L	0.0010	99	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Manganese	0.0477	mg/L	0.0010	95	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0486	mg/L	0.0010	97	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Thorium 232	0.0482	mg/L	0.0010	96	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0477	mg/L	0.0010	95	85	115			
Zinc	0.0512	mg/L	0.0021	102	85	115			
Method: E300.0							Batch: R31638		
Sample ID: LFB0710013150-3	Laboratory Fortified Blank			Run: DIONEX_071001A			10/01/07 20:24		
Fluoride	1.98	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank			Run: DIONEX_071001A			10/01/07 20:40		
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Sample ID: R07100001-001BMS	Sample Matrix Spike			Run: DIONEX_071001A			10/01/07 21:13		
Fluoride	39.0	mg/L	1.3	97	80	120			
Nitrogen, Nitrate as N	46.8	mg/L	0.34	94	80	120			
Sample ID: R07100001-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071001A			10/01/07 21:29		
Fluoride	35.4	mg/L	1.3	89	80	120	9.6	10	
Nitrogen, Nitrate as N	44.3	mg/L	0.34	89	80	120	5.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31689		
Sample ID: LFB0710040616-3	Laboratory Fortified Blank								
Chloride	5.09	mg/L	0.50	102	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0710040616-4	Laboratory Fortified Blank								
Chloride	4.53	mg/L	0.50	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R07100091-001AMS	Sample Matrix Spike								
Chloride	194	mg/L	0.50		80	120			A
Sulfate	32.9	mg/L	1.0	77	80	120			S
Sample ID: R07100091-001AMSD	Sample Matrix Spike Duplicate								
Chloride	194	mg/L	0.50		80	120	0.2	10	A
Sulfate	32.0	mg/L	1.0	71	80	120	2.6	10	S
Method: E900.0							Batch: C_GrAB-0330		
Sample ID: MB-GrAB-0330	Method Blank								
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0330	Laboratory Control Sample								
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: C07090855-001AMS	Sample Matrix Spike								
Gross Alpha	400	pCi/L	1.0	72	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	400	pCi/L	1.0	70	70	130	3.2	13.9	
Sample ID: C07090855-001AMS	Sample Matrix Spike								
Gross Beta	200	pCi/L	2.0	88	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	200	pCi/L	2.0	95	70	130	8.3	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R90863		
Sample ID: LCS-R90863	Laboratory Control Sample			Run: SUB-C90863			10/04/07 15:30		
Americium 241	730	pCi/L	20	90	70	130			
Cesium 137	1100	pCi/L	20	80	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R90863							Run: SUB-C90863		
Method Blank							10/04/07 15:30		
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Method: E903.0							Batch: C_RA226-2351		
Sample ID: R07090368-004E	Sample Matrix Spike			Run: SUB-C91326			10/15/07 12:20		
Radium 226	20	pCi/L	0.20	93	70	130			
Sample ID: R07090368-004E	Sample Matrix Spike Duplicate			Run: SUB-C91326			10/15/07 12:20		
Radium 226	19	pCi/L	0.20	93	70	130	1.4	28.6	
Sample ID: MB-RA226-2351	Method Blank			Run: SUB-C91326			10/15/07 13:35		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2351	Laboratory Control Sample			Run: SUB-C91326			10/15/07 13:35		
Radium 226	13	pCi/L	0.20	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2384		
Sample ID: C07100798-002AMS	Sample Matrix Spike								
Radium 226	48	pCi/L	0.20	92	70	130			10/30/07 15:07
- MS and MSD were inadvertently spiked at double the standard amount.									
Sample ID: C07100798-002AMSD	Sample Matrix Spike Duplicate								
Radium 226	60	pCi/L	0.20	120	70	130	22	21	R
- MS and MSD were inadvertently spiked at double the standard amount. - The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-2384	Method Blank								
Radium 226	ND	pCi/L	0.2						10/30/07 16:33
Sample ID: LCS-RA226-2384	Laboratory Control Sample								
Radium 226	13	pCi/L	0.20	104	70	130			10/30/07 16:33
Method: E907.0							Batch: C_16513		
Sample ID: R07090368-002G	Sample Duplicate								
Thorium 230	ND	pCi/L	0.20		70	130	0.0	30	10/26/07 10:00
Sample ID: R07090368-004G	Sample Matrix Spike								
Thorium 230	51.0	pCi/L	0.20	88	70	130			10/26/07 10:00
Method: E907.0							Batch: C_R92443		
Sample ID: LCS-R92443	Laboratory Control Sample								
Thorium 230	5.7	pCi/L	0.20	97	70	130			10/29/07 15:00
Sample ID: R07090385-003E	Sample Matrix Spike								
Thorium 230	21	pCi/L	0.20	105	70	130			10/29/07 15:00
Sample ID: R07090385-003E	Sample Matrix Spike Duplicate								
Thorium 230	21	pCi/L	0.20	106	70	130	0.5	30	10/29/07 15:00
Sample ID: MB-R92443	Method Blank								
Thorium 230	ND	pCi/L	0.2						10/29/07 15:00

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M Batch: C_16513									
Sample ID: R07090368-002G Lead 210	Sample Duplicate ND	pCi/L	1.0				0.0		10/24/07 07:00 30
Sample ID: R07090368-004G Lead 210	Sample Matrix Spike 430	pCi/L	1.0	106	70	130			10/24/07 07:00
Sample ID: MB-R92379 Lead 210	Method Blank ND	pCi/L	1						10/24/07 07:00
Sample ID: LCS-R92379 Lead 210	Laboratory Control Sample 80	pCi/L	1.0	100	70	130			10/24/07 07:00
Method: E909.0M Batch: C_R92396									
Sample ID: R07090368-002E Lead 210	Sample Duplicate ND	pCi/L	1.0				0.0		10/25/07 11:25 30
Sample ID: C07100214-001EMS Lead 210	Sample Matrix Spike 480	pCi/L	1.0	118	70	130			10/25/07 11:25
Sample ID: MB-R92396 Lead 210	Method Blank ND	pCi/L	1						10/25/07 11:25
Sample ID: LCS-R92396 Lead 210	Laboratory Control Sample 94	pCi/L	1.0	116	70	130			10/25/07 11:25
Method: RMO-3008 Batch: C_R91990									
Sample ID: C07100085-005FMS Polonium 210	Sample Matrix Spike 43	pCi/L	1.0	76	70	130			10/25/07 16:00
Sample ID: C07100085-005FMSD Polonium 210	Sample Matrix Spike Duplicate 45	pCi/L	1.0	80	70	130	5.6		10/25/07 16:00 30
Sample ID: MB-R91990 Polonium 210	Method Blank ND	pCi/L	1						10/25/07 16:00
Sample ID: LCS-R91990 Polonium 210	Laboratory Control Sample 20	pCi/L	1.0	90	70	130			10/25/07 16:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R92111		
Sample ID: MB-R92111	Method Blank								
Polonium 210	ND	pCi/L	1						Run: SUB-C92111 10/29/07 13:00
Sample ID: LCS-R92111	Laboratory Control Sample								
Polonium 210	17	pCi/L	1.0	78	70	130			Run: SUB-C92111 10/29/07 13:00
Sample ID: C07100214-005EMS	Sample Matrix Spike								
Polonium 210	170	pCi/L	1.0	77	70	130			Run: SUB-C92111 10/29/07 13:00
Sample ID: C07100214-005EMSD	Sample Matrix Spike Duplicate								
Polonium 210	170	pCi/L	1.0	77	70	130	0.3	30	Run: SUB-C92111 10/29/07 13:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Company Name: RESPEC		Project Name, PWS #, Permit #, Etc.: Power Tech Dewey Burdock	
Report Mail Address:		Contact Name, Phone, Fax, E-mail: Cory Foreman @ Respec	
Invoice Address:		Invoice Contact & Phone #: Cory Foreman	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		Purchase Order #: 605-381-9800	
Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> AZLA <input type="checkbox"/> Level IV <input type="checkbox"/>		Sampler Name if other than Contact: ELI CANNON	
Other: _____		Eli Quote #:	
EDD/EDT <input type="checkbox"/> Format _____		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Comments:	
Collection Date		Collection Time	
MATRIX		Number of Containers	
		Sample Type: A W S V B C	
		Air Water Soils/Solids Vegetation	
		Bioassay Other	
1 Dew Burd BNC 04		9/28/07 8:16 W	
2 Dew Burd GWN 28		9/28/07 9:23 W	
3 Dew Burd GWN 75		9/28/07 10:19 W	
4 Dew Burd GWN 42		9/28/07 11:34 W	
5 Dew Burd GWN 67		9/28/07 12:32 W	
6 Dew Burd GWN 67b		9/28/07 12:46 W	
7 Dew Burd GWN 679		9/28/07 15:04 W	
8 Dew Burd GWN 67F		9/28/07 16:22 W	
9 Dew Burd GWN 700a		9/28/07 17:44 W	
10 Dew Burd GWN 7		9/28/07 17:38 W	
Relinquished by: [Signature]		Date/Time: 9/28/07 07:54	
Shipped by:		Received by: [Signature]	
Shipped by:		Date/Time: 9/28/07 09:58	
Sample Type: _____		# of fractions: _____	
Custody Record MUST be Signed		LABORATORY USE ONLY	
Sample Disposal: _____		Return to client: _____	
Lab Disposal: _____		Date/Time: _____	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 26, 2007

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R07100295 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 10/18/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07100295-001	DewBurdBVC04	10/17/07 12:15	10/18/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07100295-002	DewBurdCHR01	10/17/07 14:00	10/18/07	Aqueous	Same As Above
R07100295-003	DewBurdBVC01	10/17/07 14:45	10/18/07	Aqueous	Same As Above
R07100295-004	DewBurdCHR05	10/17/07 16:00	10/18/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.



The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: _____

A handwritten signature in black ink, appearing to read "Linda Larson", written over a horizontal line.

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-001
 Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
 Collection Date: 10/17/07 12:15
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	62	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Calcium	382	mg/L		1		10	E200.7	11/02/07 16:19/eli-c
Chloride	1540	mg/L	D	4		100	E300.0	10/24/07 15:25/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	10/19/07 23:54/jmh
Magnesium	210	mg/L		1		10	E200.7	11/02/07 16:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 16:58/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/19/07 23:54/jmh
Potassium	9	mg/L		1		1	E200.7	11/02/07 17:01/eli-c
Silica	2	mg/L		1		1	E200.7	11/02/07 17:01/eli-c
Sodium	1160	mg/L	D	8		10	E200.7	11/02/07 16:19/eli-c
Sulfate	2670	mg/L	D	70		100	E300.0	10/24/07 15:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7130	umhos/cm		5		1	A2510 B	10/31/07 16:15/jmh
pH	7.94	s.u.		0.01		1	A4500-H B	10/24/07 12:29/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	5820	mg/L		5		1	D3977	10/26/07 16:12/sn
Solids, Total Dissolved TDS @ 180 C	5800	mg/L		5		1	A2540 C	10/19/07 14:07/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	10/24/07 14:45/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	11/02/07 17:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 03:53/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/02/07 17:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-001
 Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
 Collection Date: 10/17/07 12:15
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			1	E200.8	10/24/07 03:53/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/24/07 03:53/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/24/07 03:53/eli-c
Uranium	0.0230	mg/L		0.0003			1	E200.8	10/24/07 03:53/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	10/24/07 03:53/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/24/07 03:53/eli-c
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			1	E200.8	10/29/07 18:26/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/29/07 18:26/eli-c
METALS - TOTAL									
Aluminum	0.6	mg/L		0.1			1	E200.8	10/24/07 14:12/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/24/07 14:12/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/24/07 14:12/eli-c
Boron	0.6	mg/L		0.1			1	E200.7	11/02/07 17:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/24/07 14:12/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/24/07 14:12/eli-c
Chromium, Hexavalent	ND	mg/L		0.005			1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/24/07 14:12/eli-c
Iron	0.39	mg/L		0.03			1	E200.7	11/02/07 17:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/24/07 14:12/eli-c
Manganese	0.18	mg/L		0.01			1	E200.8	10/24/07 14:12/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/24/07 14:12/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/24/07 14:12/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/24/07 14:12/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/24/07 14:12/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/24/07 14:12/eli-c
Uranium	0.0239	mg/L		0.0003			1	E200.8	10/24/07 14:12/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	10/24/07 14:12/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/24/07 14:12/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	11/02/07 11:45/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	10/31/07 10:17/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	10/31/07 10:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-001
 Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
 Collection Date: 10/17/07 12:15
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/02/07 11:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/31/07 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/01/07 08:25/eli-c
Polonium 210	3.0	pCi/L		1.0		1	RMO-3008 11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008 11/16/07 13:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0 11/05/07 08:58/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 11/05/07 08:58/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 11/07/07 16:49/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	26.6	pCi/L		1.0		1	E900.0 11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Beta	14.0	pCi/L		2.0		1	E900.0 11/09/07 13:02/eli-c
Gross Beta precision (±)	14.1	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 10/23/07 19:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	-4.07	%				1	A1030 E 12/16/07 15:29/eli-c
Anions	94.5	meq/L				1	A1030 E 12/16/07 15:29/eli-c
Cations	87.1	meq/L				1	A1030 E 12/16/07 15:29/eli-c
Solids, Total Dissolved Calculated	5700	mg/L				1	A1030 E 12/16/07 15:29/eli-c
TDS Balance (0.80 - 1.20)	1.01	dec. %				1	A1030 E 12/16/07 15:29/eli-c

- Ion Balance achieved using Sulfate from E200.7.

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-002
 Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	320	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Bicarbonate as HCO3	390	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Calcium	398	mg/L		1		10	E200.7	11/02/07 16:22/eli-c
Chloride	166	mg/L		1		20	E300.0	10/20/07 00:10/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/20/07 00:25/jmh
Magnesium	189	mg/L		1		10	E200.7	11/02/07 16:22/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 16:59/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 00:25/jmh
Potassium	15	mg/L		1		1	E200.7	11/02/07 17:05/eli-c
Silica	13	mg/L		1		1	E200.7	11/02/07 17:05/eli-c
Sodium	1360	mg/L	D	8		10	E200.7	11/02/07 16:22/eli-c
Sulfate	4060	mg/L	D	70		100	E300.0	10/24/07 15:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6940	umhos/cm		5		1	A2510 B	10/31/07 16:16/jmh
pH	7.57	s.u.		0.01		1	A4500-H B	10/24/07 12:30/jmh
Sodium Adsorption Ratio (SAR)	14	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	6170	mg/L		5		1	D3977	10/26/07 16:13/sn
Solids, Total Dissolved TDS @ 180 C	6500	mg/L		5		1	A2540 C	10/19/07 14:07/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	10/24/07 14:45/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:00/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	11/02/07 17:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Manganese	2.75	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-002
 Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 10/24/07 04:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/24/07 04:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/24/07 04:00/eli-c
Uranium	0.0308	mg/L		0.0003		1	E200.8 10/24/07 04:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/24/07 04:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/24/07 04:00/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 10/29/07 18:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 10/29/07 18:56/eli-c
METALS - TOTAL							
Aluminum	0.6	mg/L		0.1		1	E200.8 10/24/07 14:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 10/24/07 14:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/24/07 14:19/eli-c
Boron	0.2	mg/L		0.1		1	E200.7 11/02/07 17:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/24/07 14:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/24/07 14:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/24/07 14:19/eli-c
Iron	0.95	mg/L		0.03		1	E200.7 11/02/07 17:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/24/07 14:19/eli-c
Manganese	2.94	mg/L		0.01		1	E200.8 10/24/07 14:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/24/07 14:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/24/07 14:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/24/07 14:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/24/07 14:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/24/07 14:19/eli-c
Uranium	0.0320	mg/L		0.0003		1	E200.8 10/24/07 14:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/24/07 14:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/24/07 14:19/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/02/07 11:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/31/07 10:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/07 10:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-002
 Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/02/07 11:56/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/31/07 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	3.2	pCi/L		1.0		1	E909.0M 11/01/07 08:25/eli-c
Lead 210 precision (±)	0.80	pCi/L				1	E909.0M 11/01/07 08:25/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008 11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 11/16/07 13:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0 11/05/07 09:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 11/05/07 09:59/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 11/07/07 16:49/eli-c
Thorium 230	0.9	pCi/L		0.2		1	E907.0 10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0 10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	34.2	pCi/L		1.0		1	E900.0 11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.7	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Beta	21.3	pCi/L		2.0		1	E900.0 11/09/07 13:02/eli-c
Gross Beta precision (±)	14.2	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Gamma	1070	pCi/L		20.0		1	E901.1 10/23/07 19:30/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1 10/23/07 19:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.301	%				1	A1030 E 12/16/07 15:37/eli-c
Anions	95.6	meq/L				1	A1030 E 12/16/07 15:37/eli-c
Cations	95.0	meq/L				1	A1030 E 12/16/07 15:37/eli-c
Solids, Total Dissolved Calculated	6370	mg/L				1	A1030 E 12/16/07 15:37/eli-c
TDS Balance (0.80 - 1.20)	1.03	dec. %				1	A1030 E 12/16/07 15:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-003
 Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:45
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	76	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	112	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Bicarbonate as HCO3	137	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Calcium	314	mg/L		1		10	E200.7	11/02/07 16:25/eli-c
Chloride	852	mg/L	D	2		50	E300.0	10/24/07 15:57/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/20/07 00:57/jmh
Magnesium	141	mg/L		1		10	E200.7	11/02/07 16:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 17:01/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 00:57/jmh
Potassium	15	mg/L		1		1	E200.7	11/02/07 17:08/eli-c
Silica	ND	mg/L		1		1	E200.7	11/02/07 17:08/eli-c
Sodium	950	mg/L	D	8		10	E200.7	11/02/07 16:25/eli-c
Sulfate	2180	mg/L	D	40		50	E300.0	10/24/07 15:57/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5750	umhos/cm		5		1	A2510 B	10/31/07 16:17/jmh
pH	7.84	s.u.		0.01		1	A4500-H B	10/24/07 12:31/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	4510	mg/L		5		1	D3977	10/26/07 16:13/sn
Solids, Total Dissolved TDS @ 180 C	4600	mg/L		5		1	A2540 C	10/19/07 14:08/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	10/24/07 14:46/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/02/07 17:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-003
 Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:45
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	10/24/07 04:06/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	10/29/07 19:03/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/29/07 19:03/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/24/07 14:26/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
Iron	0.13	mg/L		0.03		1	E200.7	11/02/07 17:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/24/07 14:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	10/24/07 14:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-003
 Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
 Collection Date: 10/17/07 14:45
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/02/07 11:58/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/31/07 10:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/01/07 08:25/eli-c
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008 11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008 11/16/07 13:00/eli-c
Radium 226	0.3	pCi/L		0.2		1	E903.0 11/05/07 10:59/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 11/05/07 10:59/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 11/07/07 16:49/eli-c
Thorium 230	0.7	pCi/L		0.2		1	E907.0 10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	12.0	pCi/L		1.0		1	E900.0 11/09/07 13:02/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Beta	2.7	pCi/L		2.0		1	E900.0 11/09/07 13:02/eli-c
Gross Beta precision (±)	7.0	pCi/L				1	E900.0 11/09/07 13:02/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 10/23/07 19:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.92	%				1	A1030 E 12/16/07 15:37/eli-c
Anions	71.6	meq/L				1	A1030 E 12/16/07 15:37/eli-c
Cations	68.9	meq/L				1	A1030 E 12/16/07 15:37/eli-c
Solids, Total Dissolved Calculated	4520	mg/L				1	A1030 E 12/16/07 15:37/eli-c
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E 12/16/07 15:37/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-004
 Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
 Collection Date: 10/17/07 16:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	200	CFU/100ml	D	10		10	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	352	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Bicarbonate as HCO3	429	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Calcium	492	mg/L		1		10	E200.7	11/02/07 16:45/eli-c
Chloride	269	mg/L		1		20	E300.0	10/20/07 01:13/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/20/07 01:29/jmh
Magnesium	380	mg/L		1		10	E200.7	11/02/07 16:45/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 17:02/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 01:29/jmh
Potassium	18	mg/L		1		1	E200.7	11/02/07 17:11/eli-c
Silica	10	mg/L		1		1	E200.7	11/02/07 17:11/eli-c
Sodium	1020	mg/L	D	8		10	E200.7	11/02/07 16:45/eli-c
Sulfate	4060	mg/L	D	40		50	E300.0	10/24/07 16:13/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6910	umhos/cm		5		1	A2510 B	10/31/07 16:18/jmh
pH	7.74	s.u.		0.01		1	A4500-H B	10/24/07 12:32/jmh
Sodium Adsorption Ratio (SAR)	8.4	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	7040	mg/L		5		1	D3977	10/26/07 16:14/sn
Solids, Total Dissolved TDS @ 180 C	7200	mg/L		5		1	A2540 C	10/19/07 14:08/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	10/24/07 14:46/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	11/02/07 17:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:13/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Iron	0.15	mg/L		0.03		1	E200.7	11/02/07 17:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Manganese	1.53	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-004
 Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
 Collection Date: 10/17/07 16:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 10/24/07 04:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/24/07 04:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/24/07 04:13/eli-c
Uranium	0.0368	mg/L		0.0003		1	E200.8 10/24/07 04:13/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/24/07 04:13/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/24/07 04:13/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 10/29/07 19:11/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 10/29/07 19:11/eli-c
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		1	E200.8 10/24/07 14:33/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/24/07 14:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/24/07 14:33/eli-c
Boron	0.3	mg/L		0.1		1	E200.7 11/02/07 17:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/24/07 14:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/24/07 14:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/24/07 14:33/eli-c
Iron	0.84	mg/L		0.03		1	E200.7 11/02/07 17:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/24/07 14:33/eli-c
Manganese	1.69	mg/L		0.01		1	E200.8 10/24/07 14:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/24/07 14:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/24/07 14:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/24/07 14:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/24/07 14:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/24/07 14:33/eli-c
Uranium	0.0378	mg/L		0.0003		1	E200.8 10/24/07 14:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/24/07 14:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/24/07 14:33/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/02/07 11:51/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/31/07 10:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/07 10:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100295-004
 Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
 Collection Date: 10/17/07 16:00
 Date Received: 10/18/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	11/02/07 12:00/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	10/31/07 10:31/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	6.6	pCi/L		1.0			1	E909.0M	11/01/07 08:25/eli-c
Lead 210 precision (±)	1.1	pCi/L					1	E909.0M	11/01/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/16/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	11/05/07 12:00/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.0	pCi/L		1.0			1	E909.0M	11/09/07 09:45/eli-c
Lead 210 precision (±)	1.2	pCi/L					1	E909.0M	11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	11/07/07 16:49/eli-c
Thorium 230	0.6	pCi/L		0.2			1	E907.0	10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	23.2	pCi/L		1.0			1	E900.0	11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.3	pCi/L					1	E900.0	11/09/07 13:02/eli-c
Gross Beta	11.1	pCi/L		2.0			1	E900.0	11/09/07 13:02/eli-c
Gross Beta precision (±)	14.0	pCi/L					1	E900.0	11/09/07 13:02/eli-c
Gross Gamma	1140	pCi/L		20.0			1	E901.1	10/23/07 19:30/eli-c
Gross Gamma precision (±)	191	pCi/L					1	E901.1	10/23/07 19:30/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.765	%					1	A1030 E	12/16/07 15:38/eli-c
Anions	99.1	meq/L					1	A1030 E	12/16/07 15:38/eli-c
Cations	101	meq/L					1	A1030 E	12/16/07 15:38/eli-c
Solids, Total Dissolved Calculated	6450	mg/L					1	A1030 E	12/16/07 15:38/eli-c
TDS Balance (0.80 - 1.20)	1.11	dec. %					1	A1030 E	12/16/07 15:38/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 071029A-ALK-SEL-W							
Sample ID: MBLK1_071029A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
						Run: PH_COND1-R_071029A			10/29/07 12:12
Sample ID: LCS1_071029A Alkalinity, Total as CaCO3	Laboratory Control Sample 980	mg/L	5.0	98	90	110			
						Run: PH_COND1-R_071029A			10/29/07 12:15
Sample ID: R07100248-008AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 300	mg/L	5.0	87	80	120			
						Run: PH_COND1-R_071029A			10/29/07 13:24
Sample ID: R07100248-008AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 330	mg/L	5.0	108	80	120	7.0	20	
						Run: PH_COND1-R_071029A			10/29/07 13:26
Method: A2510 B		Batch: 071031_1_COND-PROBE-W							
Sample ID: LCS1-1_071031 Conductivity @ 25 C	Laboratory Control Sample 149	umhos/cm	5.0	99	90	110			
						Run: PH_COND2-R_071031A			10/31/07 16:09
Sample ID: LCS2-1_071031 Conductivity @ 25 C	Laboratory Control Sample 4890	umhos/cm	5.0	98	90	110			
						Run: PH_COND2-R_071031A			10/31/07 16:11
Sample ID: LCS_COND-1_071031 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			
						Run: PH_COND2-R_071031A			10/31/07 16:12
Sample ID: MBLK-1_071031 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						
						Run: PH_COND2-R_071031A			10/31/07 16:12
Method: A2540 C		Batch: 071019A-SLDS-TDS-W							
Sample ID: LCS1_071019A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	100	90	110			
						Run: BAL-4-R_071019A			10/19/07 13:47
Sample ID: MBLK1_071019A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						
						Run: BAL-4-R_071019A			10/19/07 13:48
Sample ID: R07100268-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 440	mg/L	5.0	101	80	120			
						Run: BAL-4-R_071019A			10/19/07 14:01
Sample ID: R07100268-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 440	mg/L	5.0	102	80	120	0.5	10	
						Run: BAL-4-R_071019A			10/19/07 14:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071024A-SLDS-TSS-W		
Sample ID: MBLK1_071024A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2					Run: BAL-4-R_071024A 10/24/07 14:41
Sample ID: LCS1_071024A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	90	85	115			Run: BAL-4-R_071024A 10/24/07 14:42
Method: A3114 B							Batch: C_SE3114-071102		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						Run: SUB-C92203 11/02/07 11:43
Sample ID: R07100295-003H	Sample Matrix Spike								
Selenium	0.049	mg/L	0.0010	99	85	115			Run: SUB-C92203 11/02/07 12:10
Sample ID: R07100295-003H	Sample Matrix Spike Duplicate								
Selenium	0.048	mg/L	0.0010	95	85	115	3.6	10	Run: SUB-C92203 11/02/07 12:12
Sample ID: 301-105-5	Laboratory Control Sample								
Selenium	0.053	mg/L	0.0010	105	90	110			Run: SUB-C92203 11/02/07 12:15
Method: A3114 B							Batch: C_SEIV3114-071031		
Sample ID: MBLK	Method Blank								
Selenium-IV	0.0009	mg/L	0.0002						Run: SUB-C92038 10/31/07 10:07
Sample ID: R07100295-001A	Sample Matrix Spike								
Selenium-IV	0.0445	mg/L	0.0010	87	85	115			Run: SUB-C92038 10/31/07 10:38
Sample ID: R07100295-001A	Sample Matrix Spike Duplicate								
Selenium-IV	0.0437	mg/L	0.0010	86	85	115	0.0	10	Run: SUB-C92038 10/31/07 10:40
Sample ID: 301-105-5	Laboratory Control Sample								
Selenium-IV	0.048	mg/L	0.0010	97	90	110			Run: SUB-C92038 10/31/07 10:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 102207A		
Sample ID: MBLK	Method Blank								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	0.19	mg/L	0.0050	97	80	120			
Sample ID: R07100295-001E	Sample Matrix Spike								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	0.18	mg/L	0.0050	92	80	120			
Sample ID: R07100295-002E	Sample Matrix Spike								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	0.18	mg/L	0.0050	92	80	120			
Sample ID: R07100295-003E	Sample Matrix Spike								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	0.21	mg/L	0.0050	105	80	120			
Sample ID: R07100295-004E	Sample Matrix Spike								Run: SPEC1_071018A 10/18/07 09:30
Chromium, Hexavalent	0.19	mg/L	0.0050	94	80	120			
Method: A4500-H B							Batch: 071024_1_PH-W		
Sample ID: LCS_pH-1_071024	Laboratory Control Sample								Run: PH_COND2-R_071024A 10/24/07 12:28
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07100295-001CDUP	Sample Duplicate								Run: PH_COND2-R_071024A 10/24/07 12:29
pH	7.96	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G							Batch: A2007-10-25_2_NH3_01		
Sample ID: MBLK-1	Method Blank								Run: TECHAA2-R_071025A 10/25/07 14:34
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank								Run: TECHAA2-R_071025A 10/25/07 14:37
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank								Run: TECHAA2-R_071025A 10/25/07 14:38
Nitrogen, Ammonia as N	0.25	mg/L	0.10	102	90	110			
Sample ID: R07100288-002BMS	Sample Matrix Spike								Run: TECHAA2-R_071025A 10/25/07 16:55
Nitrogen, Ammonia as N	0.21	mg/L	0.10	84	80	120			
Method: A9222 D							Batch: 071018-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank								Run: MEMFILT_071018B 10/18/07 10:00
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_16587		
Sample ID: MB-16587	Method Blank		Run: SUB-C92261				11/02/07 14:00		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	0.6	mg/L	0.5						
Sample ID: LCS-16587	Laboratory Control Sample		Run: SUB-C92261				11/02/07 14:22		
Boron	0.50	mg/L	0.10	99	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Calcium	50	mg/L	0.50	100	90	110			
Magnesium	49	mg/L	0.50	97	90	110			
Potassium	51	mg/L	0.50	102	90	110			
Silica	0.51	mg/L	0.10	103	90	110			
Sodium	52	mg/L	0.53	104	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R92261		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C92261			11/02/07 12:18		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C92261			11/02/07 12:21		
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	97	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	25	mg/L	0.76	100	85	125			
Sample ID: C07101077-002GMS	Sample Matrix Spike			Run: SUB-C92261			11/02/07 17:51		
Boron	0.897	mg/L	0.10	87	70	130			
Iron	0.883	mg/L	0.030	88	70	130			
Calcium	43.6	mg/L	0.50	82	70	130			
Magnesium	42.1	mg/L	0.50	84	70	130			
Potassium	113	mg/L	0.50	94	70	130			
Sodium	47.3	mg/L	0.76	83	70	130			
Sample ID: C07101077-002GMSD	Sample Matrix Spike Duplicate			Run: SUB-C92261			11/02/07 17:54		
Boron	0.933	mg/L	0.10	91	70	130	3.9	20	
Iron	0.904	mg/L	0.030	90	70	130	2.4	20	
Calcium	44.0	mg/L	0.50	83	70	130	0.9	20	
Magnesium	41.8	mg/L	0.50	83	70	130	0.7	20	
Potassium	113	mg/L	0.50	94	70	130	0.2	20	
Sodium	48.0	mg/L	0.76	84	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16587		
Sample ID: MB-16587	Method Blank				Run: SUB-C91806		10/24/07 13:45		
Aluminum	0.0003	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	7E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	4E-05	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thorium 232	9E-05	mg/L	7E-05						
Uranium	5E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-16587	Laboratory Control Sample				Run: SUB-C91806		10/24/07 13:52		
Aluminum	0.0214	mg/L	0.10	106	80	120			
Arsenic	0.0189	mg/L	0.0010	95	80	120			
Barium	0.0204	mg/L	0.10	102	80	120			
Cadmium	0.0206	mg/L	0.010	103	80	120			
Chromium	0.0197	mg/L	0.050	98	80	120			
Copper	0.0200	mg/L	0.010	100	80	120			
Lead	0.0202	mg/L	0.050	101	80	120			
Manganese	0.0197	mg/L	0.010	98	80	120			
Molybdenum	0.0211	mg/L	0.10	106	80	120			
Nickel	0.0200	mg/L	0.050	100	80	120			
Selenium	0.0992	mg/L	0.0010	99	80	120			
Silver	0.0185	mg/L	0.010	92	80	120			
Thorium 232	0.0176	mg/L	0.0010	87	80	120			
Uranium	0.0201	mg/L	0.00030	100	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Zinc	0.0227	mg/L	0.010	104	80	120			
Sample ID: LCS-16587	Laboratory Control Sample				Run: SUB-C91806		10/24/07 13:59		
Aluminum	0.508	mg/L	0.10	102	85	115			
Arsenic	0.500	mg/L	0.0010	100	85	115			
Barium	0.503	mg/L	0.10	101	85	115			
Cadmium	0.510	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16587		
Sample ID: LCS-16587	Laboratory Control Sample			Run: SUB-C91806			10/24/07 13:59		
Chromium	0.499	mg/L	0.050	100	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.504	mg/L	0.050	101	85	115			
Manganese	0.501	mg/L	0.010	100	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.492	mg/L	0.050	98	85	115			
Selenium	0.510	mg/L	0.0020	102	85	115			
Silver	0.220	mg/L	0.010	110	85	115			
Uranium	0.512	mg/L	0.00032	102	85	115			
Vanadium	0.494	mg/L	0.10	99	85	115			
Zinc	0.512	mg/L	0.010	102	85	115			
Sample ID: C07101148-002B MS4	Post Digestion Spike			Run: SUB-C91806			10/24/07 15:19		
Aluminum	15.2	mg/L	0.10		70	130			A
Arsenic	0.0688	mg/L	0.0010	97	70	130			
Barium	0.0840	mg/L	0.10	104	70	130			
Cadmium	0.0899	mg/L	0.010	92	70	130			
Chromium	0.0705	mg/L	0.050	90	70	130			
Copper	2.34	mg/L	0.010		70	130			A
Lead	0.0869	mg/L	0.050	101	70	130			
Mercury	0.00610	mg/L	0.0010	87	70	130			
Molybdenum	0.0745	mg/L	0.10	106	70	130			
Nickel	0.357	mg/L	0.050		70	130			A
Selenium	0.143	mg/L	0.0010	94	70	130			
Silver	0.0328	mg/L	0.010	82	70	130			
Thorium 232	0.0800	mg/L	0.0010	112	70	130			
Uranium	0.163	mg/L	0.00030	103	70	130			
Vanadium	0.0647	mg/L	0.10	92	70	130			
Sample ID: C07101148-002B MSD4	Post Digestion Spike Duplicate			Run: SUB-C91806			10/24/07 15:25		
Aluminum	15.4	mg/L	0.10		70	130	1.2	20	A
Arsenic	0.0687	mg/L	0.0010	96	70	130	0.1	20	
Barium	0.0827	mg/L	0.10	102	70	130	0.0	20	
Cadmium	0.0896	mg/L	0.010	92	70	130	0.3	20	
Chromium	0.0707	mg/L	0.050	90	70	130	0.2	20	
Copper	2.35	mg/L	0.010		70	130	0.4	20	A
Lead	0.0867	mg/L	0.050	101	70	130	0.2	20	
Mercury	0.00616	mg/L	0.0010	87	70	130	0.9	20	
Molybdenum	0.0738	mg/L	0.10	105	70	130	0.0	20	
Nickel	0.360	mg/L	0.050		70	130	0.8	20	A
Selenium	0.144	mg/L	0.0010	94	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16587		
Sample ID: C07101148-002B MSD4		Post Digestion Spike Duplicate			Run: SUB-C91806			10/24/07 15:25	
Silver	0.0340	mg/L	0.010	85	70	130	3.6	20	
Thorium 232	0.0796	mg/L	0.0010	111	70	130	0.5	20	
Uranium	0.163	mg/L	0.00030	102	70	130	0.2	20	
Vanadium	0.0646	mg/L	0.10	92	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R91742		
Sample ID: LRB	Method Blank		Run: SUB-C91742			10/23/07 12:36			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	6E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	6E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0005	mg/L	3E-05						
Thorium 232	0.0004	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C91742			10/23/07 12:43			
Aluminum	0.0480	mg/L	0.0010	96	85	115			
Arsenic	0.0509	mg/L	0.0010	102	85	115			
Barium	0.0499	mg/L	0.0010	100	85	115			
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Chromium	0.0523	mg/L	0.0010	104	85	115			
Copper	0.0510	mg/L	0.0010	102	85	115			
Lead	0.0500	mg/L	0.0010	100	85	115			
Manganese	0.0484	mg/L	0.0010	97	85	115			
Mercury	0.00505	mg/L	0.0010	101	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0509	mg/L	0.0010	102	85	115			
Silver	0.0199	mg/L	0.0010	97	85	115			
Thorium 232	0.0480	mg/L	0.0010	95	85	115			
Uranium	0.0493	mg/L	0.00030	99	85	115			
Vanadium	0.0490	mg/L	0.0010	98	85	115			
Zinc	0.0544	mg/L	0.0010	105	85	115			
Sample ID: C07101077-002GMS4	Post Digestion Spike		Run: SUB-C91742			10/24/07 02:59			
Aluminum	0.0618	mg/L	0.10	101	70	130			
Arsenic	0.0510	mg/L	0.0010	101	70	130			
Barium	0.0743	mg/L	0.10	97	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0482	mg/L	0.050	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R91742		
Sample ID: C07101077-002GMS4	Post Digestion Spike			Run: SUB-C91742			10/24/07 02:59		
Copper	0.0536	mg/L	0.010	101	70	130			
Lead	0.0492	mg/L	0.050	97	70	130			
Manganese	0.0485	mg/L	0.010	96	70	130			
Mercury	0.00495	mg/L	0.0010	99	70	130			
Molybdenum	0.0480	mg/L	0.10	96	70	130			
Nickel	0.0497	mg/L	0.050	99	70	130			
Silver	0.0201	mg/L	0.010	100	70	130			
Uranium	0.0493	mg/L	0.00030	99	70	130			
Vanadium	0.0492	mg/L	0.10	98	70	130			
Zinc	0.0565	mg/L	0.010	104	70	130			
Sample ID: C07101077-002GMSD4	Post Digestion Spike Duplicate			Run: SUB-C91742			10/24/07 03:06		
Aluminum	0.0622	mg/L	0.10	102	70	130	0.0	20	
Arsenic	0.0513	mg/L	0.0010	102	70	130	0.6	20	
Barium	0.0742	mg/L	0.10	96	70	130	0.0	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.4	20	
Chromium	0.0481	mg/L	0.050	96	70	130	0.0	20	
Copper	0.0530	mg/L	0.010	100	70	130	1.2	20	
Lead	0.0495	mg/L	0.050	98	70	130	0.0	20	
Manganese	0.0483	mg/L	0.010	96	70	130	0.4	20	
Mercury	0.00491	mg/L	0.0010	98	70	130	0.8	20	
Molybdenum	0.0485	mg/L	0.10	97	70	130	0.0	20	
Nickel	0.0497	mg/L	0.050	99	70	130	0.0	20	
Silver	0.0204	mg/L	0.010	102	70	130	1.9	20	
Uranium	0.0491	mg/L	0.00030	98	70	130	0.5	20	
Vanadium	0.0491	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0564	mg/L	0.010	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R92030		
Sample ID: LRB	Method Blank			Run: SUB-C92030			10/29/07 12:19		
Thorium 232	0.0002	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C92030			10/29/07 12:27		
Thorium 232	0.0492	mg/L	0.0010	98	85	115			
Uranium	0.0484	mg/L	0.00030	96	85	115			
Sample ID: R07100295-004K	Post Digestion Spike			Run: SUB-C92030			10/29/07 19:18		
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0512	mg/L	0.00030	102	70	130			
Sample ID: R07100295-004K	Post Digestion Spike Duplicate			Run: SUB-C92030			10/29/07 19:26		
Thorium 232	0.0532	mg/L	0.0010	106	70	130	4.8	20	
Uranium	0.0534	mg/L	0.00030	107	70	130	4.3	20	
Method: E300.0							Batch: R31901		
Sample ID: LFB0710193552-3	Laboratory Fortified Blank			Run: DIONEX_071019A			10/19/07 18:51		
Chloride	4.63	mg/L	0.50	93	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sample ID: LFB0710193552-4	Laboratory Fortified Blank			Run: DIONEX_071019A			10/19/07 19:07		
Chloride	4.79	mg/L	0.50	96	90	110			
Fluoride	1.96	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Sample ID: R07100288-004AMS	Sample Matrix Spike			Run: DIONEX_071019A			10/19/07 22:50		
Chloride	138	mg/L	0.80	88	80	120			
Fluoride	39.2	mg/L	1.3	98	80	120			
Nitrogen, Nitrate as N	66.0	mg/L	0.34	95	80	120			
Sample ID: R07100288-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071019A			10/19/07 23:06		
Chloride	137	mg/L	0.80	87	80	120	0.6	10	
Fluoride	38.0	mg/L	1.3	95	80	120	3.1	10	
Nitrogen, Nitrate as N	65.2	mg/L	0.34	93	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31939		
Sample ID: LFB0710231832-3	Laboratory Fortified Blank				Run: DIONEX_071023A		10/23/07 21:07		
Chloride	4.91	mg/L	0.50	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0710231832-4	Laboratory Fortified Blank				Run: DIONEX_071023A		10/23/07 21:23		
Chloride	4.76	mg/L	0.50	95	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Method: E900.0							Batch: C_GrAB-0348		
Sample ID: UNAT-GRAB-0348	Laboratory Control Sample				Run: SUB-C92747		11/09/07 00:50		
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: CS-137-GRAB-0348	Laboratory Control Sample				Run: SUB-C92747		11/09/07 00:50		
Gross Beta	90	pCi/L	2.0	91	70	130			
Sample ID: MB-GrAB-0348	Method Blank				Run: SUB-C92747		11/09/07 00:50		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: C07101187-001DMS	Sample Matrix Spike				Run: SUB-C92747		11/09/07 00:50		
Gross Alpha	200	pCi/L	1.0	85	70	130			
Sample ID: C07101187-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C92747		11/09/07 00:50		
Gross Alpha	200	pCi/L	1.0	90	70	130	5.5	13.5	
Sample ID: C07101187-001DMS	Sample Matrix Spike				Run: SUB-C92747		11/09/07 00:50		
Gross Beta	90	pCi/L	2.0	96	70	130			
Sample ID: C07101187-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C92747		11/09/07 00:50		
Gross Beta	100	pCi/L	2.0	100	70	130	66	15.5	R

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R91797		
Sample ID: LCS-R91797	Laboratory Control Sample								10/23/07 19:30
Americium 241	737	pCi/L	20	90	70	130			
Cesium 137	1140	pCi/L	20	81	70	130			
Sample ID: MB-R91797	Method Blank								10/23/07 19:30
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07100295-004I	Sample Duplicate								10/23/07 19:30
Gross Gamma	1030	pCi/L	20				10	30	
Method: E903.0							Batch: C_16622		
Sample ID: C07101118-002AMS	Sample Matrix Spike								11/07/07 14:09
Radium 226	2.0	pCi/g-dry	0.49	94	70	130			
Sample ID: C07101118-002AMSD	Sample Matrix Spike Duplicate								11/07/07 14:09
Radium 226	2.0	pCi/g-dry	0.49	95	70	130	0.1	26.8	
Sample ID: LCS-16622	Laboratory Control Sample								11/07/07 16:49
Radium 226	62	pCi/L	0.20	99	70	130			
Sample ID: MB-16622	Method Blank								11/07/07 16:49
Radium 226	ND	pCi/L	0.004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2398		
Sample ID: C07101080-001AMS	Sample Matrix Spike					Run: SUB-C92350			11/05/07 04:57
Radium 226	20	pCi/L	0.20	84	70	130			
Sample ID: C07101080-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C92350			11/05/07 05:57
Radium 226	22	pCi/L	0.20	93	70	130	9.0	27.5	
Sample ID: MB-RA226-2398	Method Blank					Run: SUB-C92350			11/05/07 20:03
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2398	Laboratory Control Sample					Run: SUB-C92350			11/05/07 21:03
Radium 226	12	pCi/L	0.20	91	70	130			
Method: E907.0							Batch: C_16622		
Sample ID: LCS-16622	Laboratory Control Sample					Run: SUB-C92439			10/31/07 15:00
Thorium 230	5.70	pCi/g-dry	0.10	97	70	130			
Sample ID: MB-16622	Method Blank					Run: SUB-C92439			10/31/07 15:00
Thorium 230	ND	pCi/g-dry	0.0002						
Sample ID: C07100792-013BMS	Sample Matrix Spike					Run: SUB-C92755			11/05/07 15:00
Thorium 230	3.25	pCi/g-dry	0.10	96	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate					Run: SUB-C92755			11/05/07 15:00
Thorium 230	3.39	pCi/g-dry	0.10	100	70	130	4.3	30	
Method: E907.0							Batch: C_R92458		
Sample ID: LCS-R92458	Laboratory Control Sample					Run: SUB-C92458			11/02/07 15:00
Thorium 230	6.70	pCi/L	0.20	114	70	130			
Sample ID: C07101240-001FMS	Sample Matrix Spike					Run: SUB-C92458			11/02/07 15:00
Thorium 230	58.1	pCi/L	0.20	100	70	130			
Sample ID: C07101240-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C92458			11/02/07 15:00
Thorium 230	58.5	pCi/L	0.20	100	70	130	0.7	30	
Sample ID: MB-R92458	Method Blank					Run: SUB-C92458			11/02/07 15:00
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/26/07
 Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_16622		
Sample ID: C07100792-013BMS	Sample Matrix Spike				Run: SUB-C93065		11/09/07 09:45		
Lead 210	364	pCi/g-dry	0.10	91	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate				Run: SUB-C93065		11/09/07 09:45		
Lead 210	405	pCi/g-dry	0.10	101	70	130	11	30	
Sample ID: LCS-R93065	Laboratory Control Sample				Run: SUB-C93065		11/09/07 09:45		
Lead 210	88.5	pCi/g-dry	0.10	110	70	130			
Sample ID: MB-R93065	Method Blank				Run: SUB-C93065		11/09/07 09:45		
Lead 210	ND	pCi/g-dry	0.05						
Method: E909.0M							Batch: C_R92590		
Sample ID: C07101240-002FMS	Sample Matrix Spike				Run: SUB-C92590		11/01/07 08:25		
Lead 210	500	pCi/L	1.0	124	70	130			
Sample ID: C07101240-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C92590		11/01/07 08:25		
Lead 210	540	pCi/L	1.0	134	70	130	7.6	30	S
Sample ID: MB-R92590	Method Blank				Run: SUB-C92590		11/01/07 08:25		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92590	Laboratory Control Sample				Run: SUB-C92590		11/01/07 08:25		
Lead 210	95	pCi/L	1.0	118	70	130			
Method: RMO-3008							Batch: C_16622		
Sample ID: C07100792-013BMS	Sample Matrix Spike				Run: SUB-C92546		11/06/07 13:30		
Polonium 210	8.38	pCi/g-dry	0.10	77	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate				Run: SUB-C92546		11/06/07 13:30		
Polonium 210	10.4	pCi/g-dry	0.10	94	70	130	22	30	
Sample ID: MB-R92546	Method Blank				Run: SUB-C92546		11/06/07 13:30		
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92546	Laboratory Control Sample				Run: SUB-C92546		11/06/07 13:30		
Polonium 210	15	pCi/L	1.0	66	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R93240		
Sample ID: R07100295-004J	Sample Matrix Spike					Run: SUB-C93240		11/16/07 13:00	
Polonium 210	75	pCi/L	1.0	67	70	130			S
Sample ID: R07100295-004J	Sample Matrix Spike Duplicate					Run: SUB-C93240		11/16/07 13:00	
Polonium 210	100	pCi/L	1.0	90	70	130	29	30	
Sample ID: LCS-R93240	Laboratory Control Sample					Run: SUB-C93240		11/16/07 13:00	
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: MB-R93240	Method Blank					Run: SUB-C93240		11/16/07 13:00	
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



ANALYTICAL SUMMARY REPORT

January 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110147 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/13/2007 for analysis.


Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110147-001	DewBurdSub02	11/12/07 12:50	11/13/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110147-002	DewBurdSub04	11/12/07 13:50	11/13/07	Aqueous	Same As Above
R07110147-003	DewBurdSub03	11/12/07 14:50	11/13/07	Aqueous	Same As Above
R07110147-004	DewBurdSub07	11/12/07 16:45	11/13/07	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-001
 Client Sample ID: DewBurdSub02

Report Date: 01/29/08
 Collection Date: 11/12/07 12:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2			2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	102	mg/L		5			1	A2320 B	11/26/07 16:19/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:19/sn
Bicarbonate as HCO3	124	mg/L		5			1	A2320 B	11/26/07 16:19/sn
Calcium	561	mg/L	D	1			10	E200.7	11/27/07 18:48/eli-c
Chloride	22	mg/L		1			5	E300.0	11/17/07 01:33/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	11/15/07 03:26/jmh
Magnesium	180	mg/L		0.5			1	E200.7	11/27/07 19:44/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:48/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1			1	E300.0	11/15/07 03:26/jmh
Potassium	21	mg/L		1			1	E200.7	11/27/07 19:44/eli-c
Silica	2.4	mg/L		0.5			1	E200.7	11/27/07 19:44/eli-c
Sodium	165	mg/L	D	0.8			1	E200.7	11/27/07 19:44/eli-c
Sulfate	2390	mg/L	D	40			50	E300.0	11/15/07 02:38/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3340	umhos/cm		5.0			1	A2510 B	11/16/07 18:22/jmh
pH	7.78	s.u.		0.01			1	A4500-H B	11/16/07 14:24/jmh
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10			1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5			1	D3977	11/14/07 17:18/jmh
Solids, Total Dissolved TDS @ 180 C	3900	mg/L		5			1	A2540 C	11/15/07 16:10/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			1	A2540 D	11/19/07 13:44/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			10	E200.8	11/21/07 23:59/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/20/07 01:08/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/20/07 01:08/eli-c
Boron	0.5	mg/L		0.1			1	E200.7	11/27/07 19:44/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/20/07 01:08/eli-c
Chromium	ND	mg/L		0.01			1	E200.8	11/20/07 01:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/20/07 01:08/eli-c
Iron	0.08	mg/L		0.03			1	E200.7	11/27/07 19:44/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/20/07 01:08/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	11/20/07 01:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/20/07 01:08/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/20/07 01:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-001
 Client Sample ID: DewBurdSub02

Report Date: 01/29/08
 Collection Date: 11/12/07 12:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:14/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:08/eli-c
Uranium	0.171	mg/L		0.0003		1	E200.8	11/20/07 01:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:22/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 04:22/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	11/27/07 19:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/20/07 22:09/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
Iron	0.23	mg/L		0.03		1	E200.7	11/27/07 19:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/20/07 22:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Uranium	0.162	mg/L		0.0003		1	E200.8	11/20/07 22:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	11/28/07 14:02/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:34/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-001
 Client Sample ID: DewBurdSub02

Report Date: 01/29/08
 Collection Date: 11/12/07 12:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	0.002	mg/L		0.001			1	A3114 B	11/28/07 14:11/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	11/28/07 09:42/eli-c
Selenium-VI	0.002	mg/L		0.001			1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	11/26/07 23:57/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	11/26/07 23:57/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/02/07 19:59/eli-c
Thorium 230	0.7	pCi/L		0.2			1	E907.0	11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	132	pCi/L		1.0			1	E900.0	12/04/07 04:33/eli-c
Gross Alpha precision (±)	5.0	pCi/L					1	E900.0	12/04/07 04:33/eli-c
Gross Beta	83.3	pCi/L		2.0			1	E900.0	12/04/07 04:33/eli-c
Gross Beta precision (±)	8.1	pCi/L					1	E900.0	12/04/07 04:33/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.5	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/28/07 15:00/eli-c
Gross Gamma	1060	pCi/L		20.0			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	462	pCi/L					1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.86	%					1	A1030 E	12/16/07 16:28/eli-c
Anions	52.4	meq/L					1	A1030 E	12/16/07 16:28/eli-c
Cations	50.5	meq/L					1	A1030 E	12/16/07 16:28/eli-c
Solids, Total Dissolved Calculated	3400	mg/L					1	A1030 E	12/16/07 16:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-001
Client Sample ID: DewBurdSub02

Report Date: 01/29/08
Collection Date: 11/12/07 12:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.15	dec. %				1	A1030 E	12/16/07 16:28/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-002
 Client Sample ID: DewBurdSub04

Report Date: 01/29/08
 Collection Date: 11/12/07 13:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Calcium	201	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Chloride	18	mg/L		1		1	E300.0	11/15/07 03:58/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	11/15/07 03:58/jmh
Magnesium	99.5	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:49/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/15/07 03:58/jmh
Potassium	46	mg/L		1		1	E200.7	11/27/07 19:48/eli-c
Silica	16.2	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Sodium	17.1	mg/L	D	0.8		1	E200.7	11/27/07 19:48/eli-c
Sulfate	1200	mg/L	D	40		50	E300.0	11/15/07 03:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1650	umhos/cm		5.0		1	A2510 B	11/16/07 18:23/jmh
pH	4.65	s.u.		0.01		1	A4500-H B	11/16/07 14:27/jmh
Sodium Adsorption Ratio (SAR)	0.25	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	12	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	11/15/07 16:10/jmh
Solids, Total Suspended TSS @ 105 C	23	mg/L		5		1	A2540 D	11/19/07 13:45/jmh
METALS - DISSOLVED								
Aluminum	1.2	mg/L		0.1		10	E200.8	11/22/07 00:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	11/27/07 19:48/eli-c
Cadmium	0.008	mg/L		0.005		1	E200.8	11/20/07 01:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Iron	1.48	mg/L		0.03		1	E200.7	11/27/07 19:48/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Manganese	20.4	mg/L		0.01		10	E200.8	11/22/07 00:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-002
 Client Sample ID: DewBurdSub04

Report Date: 01/29/08
 Collection Date: 11/12/07 13:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	0.43	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:41/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:28/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	11/20/07 01:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c
Zinc	0.37	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:28/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	11/21/07 04:28/eli-c
METALS - TOTAL								
Aluminum	1.5	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:35/eli-c
Cadmium	0.008	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	11/20/07 22:15/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
Iron	3.73	mg/L		0.03		1	E200.7	11/27/07 19:35/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Manganese	21.3	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Nickel	0.44	mg/L		0.05		10	E200.8	11/20/07 22:15/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Uranium	0.0024	mg/L		0.0003		10	E200.8	11/20/07 22:15/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Zinc	0.41	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-002
 Client Sample ID: DewBurdSub04

Report Date: 01/29/08
 Collection Date: 11/12/07 13:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 11/28/07 14:13/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 11/28/07 09:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	3.4	pCi/L		0.2		1	E903.0 11/27/07 00:57/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 11/27/07 00:57/eli-c
Thorium 230	0.9	pCi/L		0.2		1	E907.0 11/28/07 15:00/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0 11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/02/07 20:59/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0 11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	13.6	pCi/L		1.0		1	E900.0 12/04/07 04:33/eli-c
Gross Alpha precision (±)	1.7	pCi/L				1	E900.0 12/04/07 04:33/eli-c
Gross Beta	51.3	pCi/L		2.0		1	E900.0 12/04/07 04:33/eli-c
Gross Beta precision (±)	4.2	pCi/L				1	E900.0 12/04/07 04:33/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	3.4	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	3.5	pCi/L		0.2		1	E903.0 11/26/07 12:39/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/28/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1 11/16/07 10:50/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.902	%				1	A1030 E 12/16/07 16:29/eli-c
Anions	22.3	meq/L				1	A1030 E 12/16/07 16:29/eli-c
Cations	21.9	meq/L				1	A1030 E 12/16/07 16:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-002
 Client Sample ID: DewBurdSub04

Report Date: 01/29/08
 Collection Date: 11/12/07 13:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Solids, Total Dissolved Calculated	1450	mg/L					1	A1030 E 12/16/07 16:29/eli-c
TDS Balance (0.80 - 1.20)	1.18	dec. %					1	A1030 E 12/16/07 16:29/eli-c
- Ion Balance achieved using Sulfate from E200.7.								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-003
 Client Sample ID: DewBurdSub03

Report Date: 01/29/08
 Collection Date: 11/12/07 14:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Calcium	128	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Chloride	9	mg/L		1		1	E300.0	11/15/07 04:30/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/15/07 04:30/jmh
Magnesium	53.4	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/15/07 04:30/jmh
Potassium	35	mg/L		1		1	E200.7	11/27/07 19:51/eli-c
Silica	7.5	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Sodium	8.2	mg/L	D	0.8		1	E200.7	11/27/07 19:51/eli-c
Sulfate	699	mg/L	D	40		50	E300.0	11/15/07 04:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1080	umhos/cm		5.0		1	A2510 B	11/16/07 18:24/jmh
pH	4.58	s.u.		0.01		1	A4500-H B	11/16/07 14:28/jmh
Sodium Adsorption Ratio (SAR)	0.15	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	11/15/07 17:09/jmh
Solids, Total Suspended TSS @ 105 C	6	mg/L		5		1	A2540 D	11/19/07 13:46/jmh
METALS - DISSOLVED								
Aluminum	0.6	mg/L		0.1		10	E200.8	11/22/07 00:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 01:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Iron	0.12	mg/L		0.03		1	E200.7	11/27/07 19:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Manganese	11.6	mg/L		0.01		10	E200.8	11/22/07 00:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-003
 Client Sample ID: DewBurdSub03

Report Date: 01/29/08
 Collection Date: 11/12/07 14:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	0.23	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:35/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	11/20/07 01:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c
Zinc	0.16	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:35/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8	11/21/07 04:35/eli-c
METALS - TOTAL								
Aluminum	0.7	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:38/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	11/20/07 22:22/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
Iron	0.16	mg/L		0.03		1	E200.7	11/27/07 19:38/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Manganese	12.2	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Nickel	0.23	mg/L		0.05		10	E200.8	11/20/07 22:22/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Uranium	0.0014	mg/L		0.0003		10	E200.8	11/20/07 22:22/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Zinc	0.17	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:06/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-003
 Client Sample ID: DewBurdSub03

Report Date: 01/29/08
 Collection Date: 11/12/07 14:50
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 14:15/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	11/28/07 09:47/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	4.5	pCi/L		0.2			1	E903.0	11/27/07 01:57/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	11/27/07 01:57/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/02/07 22:00/eli-c
Thorium 230	1.3	pCi/L		0.2			1	E907.0	12/27/07 14:30/eli-c
Thorium 230 precision (±)	0.7	pCi/L					1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	16.6	pCi/L		1.0			1	E900.0	12/04/07 04:32/eli-c
Gross Alpha precision (±)	1.1	pCi/L					1	E900.0	12/04/07 04:32/eli-c
Gross Beta	38.8	pCi/L		2.0			1	E900.0	12/04/07 04:32/eli-c
Gross Beta precision (±)	2.5	pCi/L					1	E900.0	12/04/07 04:32/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	2.5	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.7	pCi/L					1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	4.0	pCi/L		0.2			1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
Gross Gamma	1270	pCi/L		20.0			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	230	pCi/L					1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.0673	%					1	A1030 E	12/16/07 16:30/eli-c
Anions	12.9	meq/L					1	A1030 E	12/16/07 16:30/eli-c
Cations	12.9	meq/L					1	A1030 E	12/16/07 16:30/eli-c
Solids, Total Dissolved Calculated	851	mg/L					1	A1030 E	12/16/07 16:30/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %					1	A1030 E	12/16/07 16:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-003
Client Sample ID: DewBurdSub03

Report Date: 01/29/08
Collection Date: 11/12/07 14:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
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DATA QUALITY

- Ion Balance achieved using Sulfate from E200.7.

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-004
 Client Sample ID: DewBurdSub07

Report Date: 01/29/08
 Collection Date: 11/12/07 16:45
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Calcium	45.6	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Chloride	7	mg/L		1		1	E300.0	11/15/07 05:02/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/15/07 05:02/jmh
Magnesium	26.3	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Nitrogen, Ammonia as N	2.4	mg/L		0.1		4	A4500-NH3 G	11/13/07 18:09/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	11/15/07 05:02/jmh
Potassium	27	mg/L		1		1	E200.7	11/27/07 19:54/eli-c
Silica	ND	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Sodium	6.0	mg/L	D	0.8		1	E200.7	11/27/07 19:54/eli-c
Sulfate	357	mg/L	D	40		50	E300.0	11/15/07 04:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	610	umhos/cm		5.0		1	A2510 B	11/16/07 18:26/jmh
pH	4.12	s.u.		0.01		1	A4500-H B	11/16/07 14:29/jmh
Sodium Adsorption Ratio (SAR)	0.17	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	16	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	450	mg/L		5		1	A2540 C	11/15/07 17:09/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	11/19/07 13:47/jmh
METALS - DISSOLVED								
Aluminum	0.5	mg/L		0.1		10	E200.8	11/22/07 00:19/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/22/07 00:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 01:42/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:42/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
Iron	0.48	mg/L		0.03		1	E200.7	11/27/07 19:54/eli-c
Lead	0.004	mg/L		0.001		1	E200.8	11/20/07 01:42/eli-c
Manganese	5.54	mg/L		0.01		1	E200.8	11/20/07 01:42/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-004
 Client Sample ID: DewBurdSub07

Report Date: 01/29/08
 Collection Date: 11/12/07 16:45
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Nickel	0.12	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 13:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:42/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/20/07 01:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c
Zinc	0.14	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:41/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 04:41/eli-c
METALS - TOTAL								
Aluminum	0.6	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/20/07 22:43/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.02		5	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
Iron	0.58	mg/L		0.03		1	E200.7	11/27/07 19:41/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Manganese	5.55	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Nickel	0.12	mg/L		0.05		1	E200.8	11/20/07 22:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/20/07 22:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Zinc	0.12	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:09/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-004
 Client Sample ID: DewBurdSub07

Report Date: 01/29/08
 Collection Date: 11/12/07 16:45
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001			1	A3114 B 11/28/07 14:17/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B 11/28/07 09:49/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0			1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L					1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	0.7	pCi/L		0.2			1	E903.0 11/27/07 02:58/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0 11/27/07 02:58/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0 11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0			1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0 12/02/07 23:00/eli-c
Thorium 230	0.9	pCi/L		0.2			1	E907.0 11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.5	pCi/L					1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.1	pCi/L		1.0			1	E900.0 12/04/07 04:32/eli-c
Gross Alpha precision (±)	0.7	pCi/L					1	E900.0 12/04/07 04:32/eli-c
Gross Beta	25.8	pCi/L		2.0			1	E900.0 12/04/07 04:32/eli-c
Gross Beta precision (±)	1.8	pCi/L					1	E900.0 12/04/07 04:32/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	1.3	pCi/L		1.0			1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	0.5	pCi/L		0.2			1	E903.0 11/26/07 12:39/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0 11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0 11/28/07 15:00/eli-c
Gross Gamma	1290	pCi/L		20.0			1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	224	pCi/L					1	E901.1 11/16/07 10:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.25	%					1	A1030 E 12/16/07 16:31/eli-c
Anions	6.18	meq/L					1	A1030 E 12/16/07 16:31/eli-c
Cations	6.03	meq/L					1	A1030 E 12/16/07 16:31/eli-c
Solids, Total Dissolved Calculated	399	mg/L					1	A1030 E 12/16/07 16:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110147-004
 Client Sample ID: DewBurdSub07

Report Date: 01/29/08
 Collection Date: 11/12/07 16:45
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.13	dec. %				1	A1030 E	12/16/07 16:31/eli-c
- Ion Balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071126A-ALK-SEL-W		
Sample ID: MBLK2_071126A	Method Blank						Run: PH_COND1-R_071126A		11/26/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS2_071126A	Laboratory Control Sample						Run: PH_COND1-R_071126A		11/26/07 15:41
Alkalinity, Total as CaCO3	910	mg/L	5.0	91	90	110			
Sample ID: R07110147-004AMS	Sample Matrix Spike						Run: PH_COND1-R_071126A		11/26/07 16:25
Alkalinity, Total as CaCO3	102	mg/L	5.0	96	80	120			
Sample ID: R07110147-004AMSD	Sample Matrix Spike Duplicate						Run: PH_COND1-R_071126A		11/26/07 16:29
Alkalinity, Total as CaCO3	94.0	mg/L	5.0	89	80	120	8.2	10	
Method: A2510 B							Batch: 0711116_1_COND-PROBE-W		
Sample ID: LCS1-1_071116	Laboratory Control Sample						Run: PH_COND2-R_071116A		11/16/07 18:09
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071116	Laboratory Control Sample						Run: PH_COND2-R_071116A		11/16/07 18:10
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071116	Laboratory Control Sample						Run: PH_COND2-R_071116A		11/16/07 18:10
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071116	Method Blank						Run: PH_COND2-R_071116A		11/16/07 18:11
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110147-001ADUP	Sample Duplicate						Run: PH_COND2-R_071116A		11/16/07 18:47
Conductivity @ 25 C	3400	umhos/cm	5.0				1.8	10	
Method: A2540 C							Batch: 071115A-SLDS-TDS-W		
Sample ID: LCS1_071115A	Laboratory Control Sample						Run: BAL-4-R_071115A		11/15/07 15:53
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: MBLK1_071115A	Method Blank						Run: BAL-4-R_071115A		11/16/07 13:54
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07110146-003AMS	Sample Matrix Spike						Run: BAL-4-R_071115A		11/15/07 16:04
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	99	80	120			
Sample ID: R07110146-003AMSD	Sample Matrix Spike Duplicate						Run: BAL-4-R_071115A		11/15/07 16:05
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	100	80	120	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071119A-SLDS-TSS-W		
Sample ID: MBLK1_071119A	Method Blank					Run: BAL-4-R_071119A			11/19/07 13:41
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071119A	Laboratory Control Sample					Run: BAL-4-R_071119A			11/19/07 13:42
Solids, Total Suspended TSS @ 105 C	210	mg/L	5.0	106	85	115			
Sample ID: R07110147-001ADUP	Sample Duplicate					Run: BAL-4-R_071119A			11/19/07 13:44
Solids, Total Suspended TSS @ 105 C	2.0	mg/L	5.0				0.0	20	
Method: A3114 B							Batch: C_SE3114-071128		
Sample ID: MBLK	Method Blank					Run: SUB-C93452			11/28/07 13:26
Selenium	ND	mg/L	0.0004						
Sample ID: C07110603-001EMS	Sample Matrix Spike					Run: SUB-C93452			11/28/07 13:50
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: C07110603-001EMSD	Sample Matrix Spike Duplicate					Run: SUB-C93452			11/28/07 13:52
Selenium	0.050	mg/L	0.0010	101	85	115	0.6	10	
Sample ID: 301-119-5	Laboratory Control Sample					Run: SUB-C93452			11/28/07 13:54
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R07110147-001H	Sample Matrix Spike					Run: SUB-C93452			11/28/07 14:19
Selenium	0.050	mg/L	0.0010	97	85	115			
Sample ID: R07110147-001H	Sample Matrix Spike Duplicate					Run: SUB-C93452			11/28/07 14:21
Selenium	0.054	mg/L	0.0010	104	85	115	6.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-071128		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		0.0002						
						Run: SUB-C93423			11/28/07 08:58
Sample ID: C07110603-001EMS Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	93	85	115			
						Run: SUB-C93423			11/28/07 09:21
Sample ID: C07110603-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.048 mg/L		0.0010	95	85	115	2.7	10	
						Run: SUB-C93423			11/28/07 09:23
Sample ID: 301-119-5 Selenium-IV	Laboratory Control Sample 0.048 mg/L		0.0010	96	90	110			
						Run: SUB-C93423			11/28/07 09:25
Sample ID: R07110147-001H Selenium-IV	Sample Matrix Spike 0.043 mg/L		0.0010	86	85	115			
						Run: SUB-C93423			11/28/07 09:51
Sample ID: R07110147-001H Selenium-IV	Sample Matrix Spike Duplicate 0.044 mg/L		0.0010	87	85	115	1.5	10	
						Run: SUB-C93423			11/28/07 09:53
Method: A3500-Cr B							Batch: 111207A		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND mg/L		0.005						
						Run: SPEC1_071112A			11/12/07 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.21 mg/L		0.0050	104	80	120			
						Run: SPEC1_071112A			11/12/07 00:00
Sample ID: R07110147-001D Chromium, Hexavalent	Sample Matrix Spike 0.21 mg/L		0.0050	105	80	120			
						Run: SPEC1_071112A			11/12/07 00:00
Sample ID: R07110147-002D Chromium, Hexavalent	Sample Matrix Spike 1.6 mg/L		0.050	79	80	120			S
						Run: SPEC1_071112A			11/12/07 00:00
Sample ID: R07110147-003D Chromium, Hexavalent	Sample Matrix Spike 0.17 mg/L		0.0050	85	80	120			
						Run: SPEC1_071112A			11/12/07 00:00
Sample ID: R07110147-004D Chromium, Hexavalent	Sample Matrix Spike 0.87 mg/L		0.025	87	80	120			
						Run: SPEC1_071112A			11/12/07 00:00
Method: A4500-H B							Batch: 071116_1_PH-W		
Sample ID: LCS_pH-1_071116 pH	Laboratory Control Sample 6.85 s.u.		0.010	100	98.55	101.45			
						Run: PH_COND2-R_071116B			11/16/07 14:01
Sample ID: R07110147-001ADUP pH	Sample Duplicate 7.80 s.u.		0.010				0.3	1.25	
						Run: PH_COND2-R_071116B			11/16/07 14:25

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-11-13_2_NH3_01		
Sample ID: MBLK-2	Method Blank						Run: TECHAA2-R_071113A		11/13/07 16:08
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank						Run: TECHAA2-R_071113A		11/13/07 16:09
Nitrogen, Ammonia as N	0.23	mg/L	0.10	91	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank						Run: TECHAA2-R_071113A		11/13/07 16:10
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: R07110016-001BMS	Sample Matrix Spike						Run: TECHAA2-R_071113A		11/13/07 17:43
Nitrogen, Ammonia as N	0.24	mg/L	0.10	97	80	120			
Method: A9222 D							Batch: 071113-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank						Run: MEMFILT_071113A		11/13/07 12:50
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Method: E200.7							Batch: C_16890		
Sample ID: MB-16890	Method Blank						Run: SUB-C93405		11/27/07 18:06
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16890	Laboratory Control Sample						Run: SUB-C93405		11/27/07 18:09
Boron	0.43	mg/L	0.10	86	85	115			
Iron	0.45	mg/L	0.030	89	85	115			
Calcium	42	mg/L	0.50	84	85	115			S
Magnesium	42	mg/L	0.50	83	85	115			S
Potassium	44	mg/L	0.50	89	85	115			
Sodium	43	mg/L	0.53	87	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93405		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 11:57		
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 12:00		
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	94	85	125			
Potassium	26	mg/L	0.50	104	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: R07110146-001C	Sample Matrix Spike			Run: SUB-C93405			11/27/07 15:02		
Boron	8.88	mg/L	0.10	89	70	130			
Iron	9.14	mg/L	0.046	88	70	130			
Calcium	619	mg/L	1.0	81	70	130			
Magnesium	482	mg/L	0.50	81	70	130			
Potassium	1100	mg/L	0.50	90	70	130			
Silica	16.2	mg/L	0.20	85	70	130			
Sodium	551	mg/L	7.6	80	70	130			
Silicon	7.58	mg/L	0.094	76	70	130			
Sample ID: R07110146-001C	Sample Matrix Spike Duplicate			Run: SUB-C93405			11/27/07 15:05		
Boron	9.32	mg/L	0.10	93	70	130	4.8	20	
Iron	9.49	mg/L	0.046	91	70	130	3.8	20	
Calcium	632	mg/L	1.0	84	70	130	2.1	20	
Magnesium	491	mg/L	0.50	82	70	130	1.7	20	
Potassium	1110	mg/L	0.50	91	70	130	1.6	20	
Silica	16.4	mg/L	0.20	86	70	130	1.0	20	
Sodium	577	mg/L	7.6	85	70	130	4.6	20	
Silicon	7.65	mg/L	0.094	77	70	130	1.0	20	
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 21:56		
Silica	1.9	mg/L	0.10	96	85	125			
Boron	1.9	mg/L	0.10	93	85	125			
Calcium	ND	mg/L	0.50		85	125			S
Iron	1.9	mg/L	0.030	95	85	125			
Magnesium	ND	mg/L	0.50		85	125			S
Potassium	0.069	mg/L	0.50		85	125			S
Sodium	ND	mg/L	0.76		85	125			S
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 21:59		
Calcium	23	mg/L	0.50	94	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93405		
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 21:59		
Magnesium	23	mg/L	0.50	93	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	23	mg/L	0.76	94	85	125			
Sample ID: C07110667-001BMS	Sample Matrix Spike			Run: SUB-C93405			11/27/07 17:43		
Boron	0.966	mg/L	0.10	92	70	130			
Calcium	105	mg/L	0.50	80	70	130			
Iron	0.934	mg/L	0.030	93	70	130			
Magnesium	56.9	mg/L	0.50	87	70	130			
Potassium	116	mg/L	0.50	93	70	130			
Silica	50.9	mg/L	0.10		0	0			A
Sodium	58.9	mg/L	0.76	89	70	130			
Sample ID: C07110667-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C93405			11/27/07 17:46		
Boron	0.999	mg/L	0.10	95	70	130	3.4	20	
Calcium	108	mg/L	0.50	84	70	130	2.2	20	
Iron	0.952	mg/L	0.030	95	70	130	1.9	20	
Magnesium	57.5	mg/L	0.50	88	70	130	1.0	20	
Potassium	116	mg/L	0.50	93	70	130	0.1	20	
Silica	51.5	mg/L	0.10		0	0			A
Sodium	58.5	mg/L	0.76	89	70	130	0.7	20	
Sample ID: C07110903-001CMS	Sample Matrix Spike			Run: SUB-C93405			11/27/07 19:05		
Boron	9.63	mg/L	0.10	95	70	130			
Iron	9.43	mg/L	0.046	94	70	130			
Calcium	447	mg/L	1.0	89	70	130			
Magnesium	438	mg/L	0.50	88	70	130			
Potassium	1140	mg/L	0.50	95	70	130			
Silica	20.6	mg/L	0.20	89	70	130			
Sodium	702	mg/L	7.6	91	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07110903-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C93405			11/27/07 19:08		
Boron	9.78	mg/L	0.10	96	70	130	1.5	20	
Iron	9.53	mg/L	0.046	95	70	130	1.1	20	
Calcium	451	mg/L	1.0	90	70	130	0.7	20	
Magnesium	447	mg/L	0.50	89	70	130	2.1	20	
Potassium	1130	mg/L	0.50	94	70	130	1.5	20	
Silica	20.5	mg/L	0.20	87	70	130			
Sodium	707	mg/L	7.6	92	70	130	0.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16875
Sample ID: MB-16875	Method Blank								Run: SUB-C93209 11/21/07 02:47
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-16875	Laboratory Control Sample								Run: SUB-C93209 11/21/07 02:54
Uranium	0.0526	mg/L	0.00030	100	80	120			
Sample ID: R07110147-004K	Post Digestion Spike								Run: SUB-C93209 11/21/07 04:48
Thorium 232	0.0241	mg/L	0.0010	96	70	130			
Uranium	0.0241	mg/L	0.00030	95	70	130			
Sample ID: R07110147-004K	Post Digestion Spike Duplicate								Run: SUB-C93209 11/21/07 04:55
Thorium 232	0.0242	mg/L	0.0010	96	70	130	0.2	20	
Uranium	0.0241	mg/L	0.00030	95	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_16890			
Sample ID: MB-16890	Method Blank		Run: SUB-C93209			11/20/07 21:28				
Aluminum	ND	mg/L	0.0002							
Arsenic	ND	mg/L	5E-05							
Barium	0.00010	mg/L	9E-05							
Cadmium	ND	mg/L	3E-05							
Chromium	ND	mg/L	5E-05							
Copper	ND	mg/L	0.0002							
Lead	ND	mg/L	5E-05							
Manganese	ND	mg/L	3E-05							
Mercury	ND	mg/L	6E-06							
Molybdenum	ND	mg/L	5E-05							
Nickel	ND	mg/L	6E-05							
Silver	0.0005	mg/L	4E-05							
Thorium 232	ND	mg/L	7E-05							
Uranium	ND	mg/L	3E-05							
Vanadium	ND	mg/L	6E-05							
Zinc	0.0005	mg/L	0.0003							
Sample ID: LCS1-16890							Run: SUB-C93209			11/20/07 21:35
Laboratory Control Sample										
Aluminum	0.020	mg/L	0.10	101	80	120				
Arsenic	0.019	mg/L	0.0010	97	80	120				
Barium	0.021	mg/L	0.10	103	80	120				
Cadmium	0.020	mg/L	0.010	102	80	120				
Chromium	0.020	mg/L	0.050	98	80	120				
Copper	0.020	mg/L	0.010	99	80	120				
Lead	0.020	mg/L	0.050	101	80	120				
Manganese	0.020	mg/L	0.010	99	80	120				
Molybdenum	0.020	mg/L	0.10	102	80	120				
Nickel	0.020	mg/L	0.050	101	80	120				
Silver	0.020	mg/L	0.010	98	80	120				
Thorium 232	0.020	mg/L	0.0010	100	80	120				
Uranium	0.020	mg/L	0.00030	101	80	120				
Vanadium	0.019	mg/L	0.10	97	80	120				
Zinc	0.021	mg/L	0.010	102	80	120				
Sample ID: LCS-16890							Run: SUB-C93209			11/20/07 21:42
Laboratory Control Sample										
Aluminum	0.45	mg/L	0.10	89	85	115				
Arsenic	0.46	mg/L	0.0010	92	85	115				
Barium	0.46	mg/L	0.10	92	85	115				
Cadmium	0.46	mg/L	0.010	92	85	115				
Chromium	0.45	mg/L	0.050	90	85	115				
Copper	0.44	mg/L	0.010	89	85	115				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16890
Sample ID: LCS-16890	Laboratory Control Sample			Run: SUB-C93209					11/20/07 21:42
Lead	0.45	mg/L	0.050	91	85	115			
Manganese	0.45	mg/L	0.010	91	85	115			
Molybdenum	0.45	mg/L	0.10	91	85	115			
Nickel	0.45	mg/L	0.050	91	85	115			
Silver	0.23	mg/L	0.010	115	85	115			
Uranium	0.46	mg/L	0.00032	91	85	115			
Vanadium	0.45	mg/L	0.10	90	85	115			
Zinc	0.45	mg/L	0.010	90	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93179		
Sample ID: LRB	Method Blank		Run: SUB-C93179			11/19/07 10:45			
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C93179			11/19/07 10:51			
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0508	mg/L	0.0010	102	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0514	mg/L	0.0010	103	85	115			
Lead	0.0520	mg/L	0.0010	104	85	115			
Manganese	0.0520	mg/L	0.0010	104	85	115			
Mercury	0.00523	mg/L	0.0010	105	85	115			
Molybdenum	0.0521	mg/L	0.0010	104	85	115			
Nickel	0.0515	mg/L	0.0010	103	85	115			
Thorium 232	0.0527	mg/L	0.0010	105	85	115			
Uranium	0.0534	mg/L	0.00030	107	85	115			
Vanadium	0.0521	mg/L	0.0010	104	85	115			
Zinc	0.0536	mg/L	0.0010	105	85	115			
Sample ID: C07110547-012DMS4	Post Digestion Spike		Run: SUB-C93179			11/20/07 00:48			
Arsenic	0.0519	mg/L	0.0010	102	70	130			
Barium	0.140	mg/L	0.10	103	70	130			
Cadmium	0.0505	mg/L	0.010	101	70	130			
Chromium	0.0456	mg/L	0.050	91	70	130			
Copper	0.0468	mg/L	0.010	93	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.0497	mg/L	0.010	89	70	130			
Mercury	0.00578	mg/L	0.0010	116	70	130			
Molybdenum	0.0492	mg/L	0.10	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93179		
Sample ID: C07110547-012DMS4	Post Digestion Spike			Run: SUB-C93179			11/20/07 00:48		
Nickel	0.0449	mg/L	0.050	90	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Uranium	0.0548	mg/L	0.00030	107	70	130			
Vanadium	0.0471	mg/L	0.10	94	70	130			
Zinc	0.0551	mg/L	0.010	107	70	130			
Sample ID: C07110547-012DMSD4	Post Digestion Spike Duplicate			Run: SUB-C93179			11/20/07 00:54		
Arsenic	0.0516	mg/L	0.0010	101	70	130	0.4	20	
Barium	0.139	mg/L	0.10	101	70	130	0.6	20	
Cadmium	0.0506	mg/L	0.010	101	70	130	0.2	20	
Chromium	0.0458	mg/L	0.050	91	70	130	0.0	20	
Copper	0.0463	mg/L	0.010	92	70	130	0.9	20	
Lead	0.0518	mg/L	0.050	104	70	130	0.4	20	
Manganese	0.0500	mg/L	0.010	89	70	130	0.7	20	
Mercury	0.00570	mg/L	0.0010	114	70	130	1.3	20	
Molybdenum	0.0496	mg/L	0.10	96	70	130	0.0	20	
Nickel	0.0439	mg/L	0.050	88	70	130	0.0	20	
Thorium 232	0.0528	mg/L	0.0010	106	70	130	0.8	20	
Uranium	0.0546	mg/L	0.00030	107	70	130	0.4	20	
Vanadium	0.0473	mg/L	0.10	95	70	130	0.0	20	
Zinc	0.0500	mg/L	0.010	97	70	130	9.7	20	
Sample ID: C07110706-003DMS4	Post Digestion Spike			Run: SUB-C93179			11/20/07 02:29		
Arsenic	0.0898	mg/L	0.0010	103	70	130			
Barium	0.114	mg/L	0.10	102	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Chromium	0.0476	mg/L	0.050	95	70	130			
Copper	0.0498	mg/L	0.010	98	70	130			
Lead	0.0518	mg/L	0.050	103	70	130			
Manganese	0.210	mg/L	0.010	92	70	130			
Mercury	0.00532	mg/L	0.0010	106	70	130			
Molybdenum	0.0514	mg/L	0.10	102	70	130			
Nickel	0.0498	mg/L	0.050	100	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Uranium	0.0592	mg/L	0.00030	107	70	130			
Vanadium	0.0499	mg/L	0.10	98	70	130			
Zinc	0.0541	mg/L	0.010	98	70	130			
Sample ID: C07110706-003DMSD4	Post Digestion Spike Duplicate			Run: SUB-C93179			11/20/07 02:50		
Arsenic	0.0883	mg/L	0.0010	100	70	130	1.7	20	
Barium	0.111	mg/L	0.10	96	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93179		
Sample ID: C07110706-003DMSD4	Post Digestion Spike Duplicate			Run: SUB-C93179			11/20/07 02:50		
Cadmium	0.0493	mg/L	0.010	99	70	130	2.8	20	
Chromium	0.0477	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0485	mg/L	0.010	96	70	130	2.6	20	
Lead	0.0496	mg/L	0.050	99	70	130	0.0	20	
Manganese	0.213	mg/L	0.010	98	70	130	1.5	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	5.6	20	
Molybdenum	0.0517	mg/L	0.10	102	70	130	0.0	20	
Nickel	0.0487	mg/L	0.050	97	70	130	0.0	20	
Thorium 232	0.0518	mg/L	0.0010	104	70	130	4.4	20	
Uranium	0.0571	mg/L	0.00030	103	70	130	3.5	20	
Vanadium	0.0497	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0543	mg/L	0.010	98	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93267		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93267			11/21/07 22:44		
Aluminum	0.0462	mg/L	0.0010	92	85	115			
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Manganese	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0508	mg/L	0.0010	102	85	115			
Zinc	0.0523	mg/L	0.0010	102	85	115			
Sample ID: C07110795-006BMS4	Post Digestion Spike			Run: SUB-C93267			11/22/07 00:46		
Aluminum	1.17	mg/L	0.10	89	70	130			
Arsenic	1.55	mg/L	0.0015	103	70	130			
Copper	1.09	mg/L	0.010	87	70	130			
Manganese	2.45	mg/L	0.010	93	70	130			
Nickel	1.21	mg/L	0.050	97	70	130			
Zinc	1.27	mg/L	0.010	100	70	130			
Sample ID: C07110795-006BMSD4	Post Digestion Spike Duplicate			Run: SUB-C93267			11/22/07 00:53		
Aluminum	1.13	mg/L	0.10	86	70	130	3.6	20	
Arsenic	1.52	mg/L	0.0015	100	70	130	2.3	20	
Copper	1.09	mg/L	0.010	87	70	130	0.0	20	
Manganese	2.43	mg/L	0.010	91	70	130	0.9	20	
Nickel	1.22	mg/L	0.050	97	70	130	0.3	20	
Zinc	1.26	mg/L	0.010	99	70	130	0.9	20	
Sample ID: LRB	Method Blank			Run: SUB-C93267			11/21/07 22:37		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Manganese	6E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Zinc	0.001	mg/L	0.0003						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93352
Sample ID: LRB	Method Blank								11/26/07 11:53
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank								11/26/07 12:00
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: R07110147-001E	Post Digestion Spike								11/26/07 12:20
Silver	0.188	mg/L	0.010	94	70	130			
Sample ID: R07110147-001E	Post Digestion Spike Duplicate								11/26/07 12:27
Silver	0.190	mg/L	0.010	95	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32251		
Sample ID: LFB0711142429-3	Laboratory Fortified Blank					Run: DIONEX_071114A	11/14/07 18:41		
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.96	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0711142429-4	Laboratory Fortified Blank					Run: DIONEX_071114A	11/14/07 18:57		
Chloride	4.95	mg/L	0.50	99	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	100	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110147-001AMS	Sample Matrix Spike					Run: DIONEX_071114A	11/15/07 02:54		
Chloride	.268	mg/L	2.0	94	80	120			
Fluoride	103	mg/L	3.2	103	80	120			
Nitrogen, Nitrate as N	125	mg/L	0.84	100	80	120			
Sulfate	2930	mg/L	36	73	80	120			S
Sample ID: R07110147-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071114A	11/15/07 03:10		
Chloride	261	mg/L	2.0	91	80	120	2.8	10	
Fluoride	99.9	mg/L	3.2	100	80	120	3.1	10	
Nitrogen, Nitrate as N	121	mg/L	0.84	97	80	120	2.8	10	
Sulfate	2940	mg/L	36	73	80	120	0.1	10	S
Sample ID: R07110122-002BMS	Sample Matrix Spike					Run: DIONEX_071114A	11/15/07 06:53		
Chloride	192	mg/L	0.80	80	80	120			
Fluoride	41.3	mg/L	1.3	103	80	120			
Nitrogen, Nitrate as N	50.5	mg/L	0.34	95	80	120			
Sulfate	913	mg/L	14	73	80	120			S
Sample ID: R07110122-002BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071114A	11/15/07 07:09		
Chloride	190	mg/L	0.80	78	80	120	1.4	10	S
Fluoride	40.7	mg/L	1.3	102	80	120	1.4	10	
Nitrogen, Nitrate as N	49.1	mg/L	0.34	92	80	120	2.8	10	
Sulfate	898	mg/L	14	68	80	120	1.7	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32294		
Sample ID: LFB0711160116-3	Laboratory Fortified Blank					Run: DIONEX_071116A	11/16/07 19:43		
Chloride	4.74	mg/L	0.50	95	90	110			
Sample ID: LFB0711160116-4	Laboratory Fortified Blank					Run: DIONEX_071116A	11/16/07 19:59		
Chloride	4.91	mg/L	0.50	98	90	110			
Sample ID: R07110196-001AMS	Sample Matrix Spike					Run: DIONEX_071116A	11/16/07 23:42		
Chloride	17.2	mg/L	0.50	87	80	120			
Sample ID: R07110196-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071116A	11/16/07 23:58		
Chloride	17.2	mg/L	0.50	86	80	120	0.2	10	
Method: E900.0							Batch: C_GrAB-0360		
Sample ID: MB-GrAB-0360	Method Blank					Run: SUB-C93851	11/30/07 22:31		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0360	Laboratory Control Sample					Run: SUB-C93851	11/30/07 22:32		
Gross Alpha	200	pCi/L	1.0	98	70	130			
Sample ID: Cs137-GrAB-0360	Laboratory Control Sample					Run: SUB-C93851	11/30/07 22:32		
Gross Beta	90	pCi/L	2.0	97	70	130			
Sample ID: C07110713-001EMS	Sample Matrix Spike					Run: SUB-C93851	11/30/07 22:32		
Gross Alpha	400	pCi/L	1.0	82	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate					Run: SUB-C93851	11/30/07 22:31		
Gross Alpha	400	pCi/L	1.0	81	70	130	1.2	12.4	
Sample ID: C07110713-001EMS	Sample Matrix Spike					Run: SUB-C93851	11/30/07 22:31		
Gross Beta	200	pCi/L	2.0	93	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate					Run: SUB-C93851	11/30/07 22:31		
Gross Beta	200	pCi/L	2.0	87	70	130	6.7	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R93000		
Sample ID: LCS-R93000	Laboratory Control Sample				Run: SUB-C93000			11/16/07 10:50	
Cesium 137	1100	pCi/L	20	82	70	130			
Potassium 40	7000	pCi/L	20	105	70	130			
Sample ID: MB-R93000	Method Blank				Run: SUB-C93000			11/16/07 10:50	
Gross Gamma	ND	pCi/L	20						
Sample ID: C07110603-010HDUP	Sample Duplicate				Run: SUB-C93000			11/16/07 10:50	
Gross Gamma	2000	pCi/L	20				13	30	
Method: E903.0							Batch: C_16875		
Sample ID: C07110557-001FMS	Sample Matrix Spike				Run: SUB-C93643			12/02/07 05:53	
Radium 226	60	pCi/L	0.20	97	70	130			
Sample ID: C07110557-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C93643			12/02/07 06:53	
Radium 226	54	pCi/L	0.20	86	70	130	10	30.1	
Sample ID: LCS-16875	Laboratory Control Sample				Run: SUB-C93643			12/03/07 03:02	
Radium 226	11	pCi/L	0.20	88	70	130			
Sample ID: MB-16875	Method Blank				Run: SUB-C93643			12/03/07 04:02	
Radium 226	ND	pCi/L	0.2						
Method: E903.0							Batch: C_RA226-2446		
Sample ID: C07110687-003DMS	Sample Matrix Spike				Run: SUB-C93382			11/26/07 16:54	
Radium 226	21	pCi/L	0.20	102	70	130			
Sample ID: C07110687-003DMSD	Sample Matrix Spike Duplicate				Run: SUB-C93382			11/26/07 17:54	
Radium 226	23	pCi/L	0.20	109	70	130	6.9	27.9	
Sample ID: MB-RA226-2446	Method Blank				Run: SUB-C93382			11/27/07 03:58	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2446	Laboratory Control Sample				Run: SUB-C93382			11/27/07 05:59	
Radium 226	12	pCi/L	0.20	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2447		
Sample ID: C07110704-001AMS Radium 226	Sample Matrix Spike 22 pCi/L		0.20	94	70	130			Run: SUB-C93327 11/26/07 13:48
Sample ID: C07110704-001AMSD Radium 226	Sample Matrix Spike Duplicate 22 pCi/L		0.20	92	70	130	1.3	27.5	Run: SUB-C93327 11/26/07 13:48
Sample ID: MB-RA226-2447 Radium 226	Method Blank ND pCi/L		0.2						Run: SUB-C93327 11/26/07 13:48
Sample ID: LCS-RA226-2447 Radium 226	Laboratory Control Sample 13 pCi/L		0.20	100	70	130			Run: SUB-C93327 11/26/07 13:48
Method: E907.0							Batch: C_16875		
Sample ID: C07110603-008IDUP Thorium 230	Sample Duplicate 0.233 pCi/L		0.20		70	130	2.6	30	Run: SUB-C93872 11/26/07 14:10
Sample ID: C07110603-009IMS Thorium 230	Sample Matrix Spike 3.25 pCi/L		0.20	87	70	130			Run: SUB-C93872 11/26/07 14:10
Sample ID: LCS-16875 Thorium 230	Laboratory Control Sample 54.8 pCi/L		0.21	94	70	130			Run: SUB-C93872 11/26/07 14:10
Sample ID: MB-16875 Thorium 230	Method Blank ND pCi/L		0.2						Run: SUB-C93872 11/26/07 14:10
Method: E907.0							Batch: C_R93922		
Sample ID: LCS-R93922 Thorium 230	Laboratory Control Sample 5.70 pCi/L		0.20	97	70	130			Run: SUB-C93922 11/28/07 15:00
Sample ID: C07110687-002DMS Thorium 230	Sample Matrix Spike 18.0 pCi/L		0.20	92	70	130			Run: SUB-C93922 11/28/07 15:00
Sample ID: C07110687-002DMSD Thorium 230	Sample Matrix Spike Duplicate 18.5 pCi/L		0.20	94	70	130	2.7	30	Run: SUB-C93922 11/28/07 15:00
Sample ID: MB-R93922 Thorium 230	Method Blank ND pCi/L		0.2						Run: SUB-C93922 11/28/07 15:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R95122		
Sample ID: LCS-R95122	Laboratory Control Sample					Run: SUB-C95122			12/27/07 15:15
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike					Run: SUB-C95122			12/27/07 15:15
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C95122			12/27/07 15:15
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank					Run: SUB-C95122			12/27/07 15:15
Thorium 230	ND	pCi/L	0.2						
Method: E907.0							Batch: C_R95271		
Sample ID: C07120475-003AMS	Sample Matrix Spike					Run: SUB-C95271			12/27/07 14:30
Thorium 230	53.2	pCi/Filter	0.20	92	70	130			
Sample ID: C07120475-003AMSD	Sample Matrix Spike Duplicate					Run: SUB-C95271			12/27/07 14:30
Thorium 230	56.3	pCi/Filter	0.20	96	70	130	5.7	30	
Sample ID: LCS-17292	Laboratory Control Sample					Run: SUB-C95271			12/27/07 14:30
Thorium 230	6.10	pCi/Filter	0.20	103	70	130			
Sample ID: MB-17292	Method Blank					Run: SUB-C95271			12/27/07 14:30
Thorium 230	ND	pCi/Filter	0.2						
Method: E909.0M							Batch: C_16875		
Sample ID: C07110603-001IMS	Sample Matrix Spike					Run: SUB-C93672			12/03/07 04:30
Lead 210	330	pCi/L	1.0	83	70	130			
Sample ID: C07110603-001IMSD	Sample Matrix Spike Duplicate					Run: SUB-C93672			12/03/07 04:30
Lead 210	360	pCi/L	1.0	89	70	130	6.7	30	
Sample ID: MB-R93672	Method Blank					Run: SUB-C93672			12/03/07 04:30
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93672	Laboratory Control Sample					Run: SUB-C93672			12/03/07 04:30
Lead 210	85	pCi/L	1.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R93516		
Sample ID: C07110728-001AMS Lead 210	Sample Matrix Spike 390	pCi/L	1.0	97	70	130			Run: SUB-C93516 11/21/07 07:30
Sample ID: C07110728-001AMSD Lead 210	Sample Matrix Spike Duplicate 440	pCi/L	1.0	109	70	130	12	30	Run: SUB-C93516 11/21/07 07:30
Sample ID: MB-R93516 Lead 210	Method Blank ND	pCi/L	1						Run: SUB-C93516 11/21/07 07:30
Sample ID: LCS-R93516 Lead 210	Laboratory Control Sample 98	pCi/L	1.0	122	70	130			Run: SUB-C93516 11/21/07 07:30
Method: RMO-3008							Batch: C_16875		
Sample ID: C07110603-006IMS Polonium 210	Sample Matrix Spike 24	pCi/L	1.0	85	70	130			Run: SUB-C93514 11/26/07 12:30
Sample ID: C07110603-006IMSD Polonium 210	Sample Matrix Spike Duplicate 21	pCi/L	1.0	73	70	130	15	30	Run: SUB-C93514 11/26/07 12:30
Sample ID: LCS-R93514 Polonium 210	Laboratory Control Sample 19	pCi/L	1.0	86	70	130			Run: SUB-C93514 11/26/07 12:30
Sample ID: MB-R93514 Polonium 210	Method Blank ND	pCi/L	1						Run: SUB-C93514 11/26/07 12:30
Method: RMO-3008							Batch: C_R93504		
Sample ID: C07110759-004HMS Polonium 210	Sample Matrix Spike 180	pCi/L	1.0	81	70	130			Run: SUB-C93504 11/20/07 13:30
Sample ID: C07110759-004HMSD Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	76	70	130	6.2	30	Run: SUB-C93504 11/20/07 13:30
Sample ID: LCS-R93504 Polonium 210	Laboratory Control Sample 17	pCi/L	1.0	77	70	130			Run: SUB-C93504 11/20/07 13:30
Sample ID: MB-R93504 Polonium 210	Method Blank ND	pCi/L	1						Run: SUB-C93504 11/20/07 13:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

January 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110229 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/19/2007 for analysis.

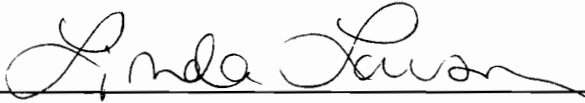
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110229-001	DewBurdCHR01	11/19/07 9:45	11/19/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110229-002	DewBurdBVC01	11/19/07 11:30	11/19/07	Aqueous	Same As Above
R07110229-003	DewBurdBVC04	11/19/07 12:30	11/19/07	Aqueous	Same As Above
R07110229-004	DewBurdCHR05	11/19/07 15:00	11/19/07	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-001
 Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
 Collection Date: 11/19/07 09:45
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	322	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Bicarbonate as HCO3	393	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Calcium	411	mg/L	D	1		10	E200.7	12/03/07 16:53/eli-c
Chloride	176	mg/L		1		20	E300.0	11/20/07 20:42/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/07 21:29/jmh
Magnesium	201	mg/L		0.5		1	E200.7	12/04/07 16:49/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:36/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/07 21:29/jmh
Potassium	15	mg/L		1		10	E200.7	12/03/07 16:53/eli-c
Silica	12.4	mg/L		0.5		10	E200.7	12/03/07 16:53/eli-c
Sodium	1530	mg/L	D	8		10	E200.7	12/03/07 16:53/eli-c
Sulfate	4520	mg/L	D	40		50	E300.0	11/21/07 19:32/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7530	umhos/cm		5.0		1	A2510 B	11/26/07 15:30/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	11/26/07 15:06/jmh
Sodium Adsorption Ratio (SAR)	15	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	10	mg/L		5		1	D3977	11/27/07 15:14/jmh
Solids, Total Dissolved TDS @ 180 C	7100	mg/L		5		1	A2540 C	11/26/07 15:46/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	12/04/07 16:49/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:01/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	12/04/07 16:49/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Manganese	3.01	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-001
 Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
 Collection Date: 11/19/07 09:45
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/27/07 23:51/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/27/07 00:01/eli-c
Uranium	0.0310	mg/L		0.0003		10	E200.8	11/27/07 00:01/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/03/07 13:24/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/03/07 13:24/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		5	E200.8	11/29/07 23:29/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	11/29/07 04:25/eli-c
Barium	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	12/04/07 17:02/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	11/29/07 04:25/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	11/29/07 04:25/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/20/07 18:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	12/04/07 17:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/26/07 16:28/eli-c
Manganese	2.66	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/27/07 22:59/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	11/29/07 04:25/eli-c
Silver	ND	mg/L		0.005		5	E200.8	11/29/07 04:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/26/07 16:28/eli-c
Uranium	0.0316	mg/L		0.0003		1	E200.8	11/26/07 16:28/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Zinc	0.02	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 14:59/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-001
 Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
 Collection Date: 11/19/07 09:45
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	12/03/07 15:08/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/03/07 09:49/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/27/07 08:00/eli-c
Polonium 210	1.7	pCi/L		1.0			1	RMO-3008	11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/04/07 11:15/eli-c
Polonium 210	2.3	pCi/L		1.0			1	RMO-3008	12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	12/05/07 12:00/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	12/11/07 09:36/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	12/11/07 09:36/eli-c
Thorium 230	3.8	pCi/L		0.2			1	E907.0	12/05/07 15:00/eli-c
Thorium 230 precision (±)	1.0	pCi/L					1	E907.0	12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	27.0	pCi/L		1.0			1	E900.0	12/06/07 20:59/eli-c
Gross Alpha precision (±)	5.3	pCi/L					1	E900.0	12/06/07 20:59/eli-c
Gross Beta	ND	pCi/L		2.0			1	E900.0	12/06/07 20:59/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	11/28/07 11:35/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/24/07 11:00/eli-c
Polonium 210	4.0	pCi/L		1.0			1	RMO-3008	12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.9	pCi/L					1	RMO-3008	12/24/07 11:00/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	12/24/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	12/24/07 11:00/eli-c
Thorium 230	3.8	pCi/L		0.2			1	E907.0	12/24/07 11:00/eli-c
Thorium 230 precision (±)	1.0	pCi/L					1	E907.0	12/24/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.593	%					1	A1030 E	12/24/07 14:55/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-001
Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
Collection Date: 11/19/07 09:45
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
DATA QUALITY								
Anions	105	meq/L				1	A1030 E	12/24/07 14:55/sec
Cations	104	meq/L				1	A1030 E	12/24/07 14:55/sec
Solids, Total Dissolved Calculated	7040	mg/L				1	A1030 E	12/24/07 14:55/sec
TDS Balance (0.80 - 1.20)	1.00	dec. %				1	A1030 E	12/24/07 14:55/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-002
 Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
 Collection Date: 11/19/07 11:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	30	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Calcium	379	mg/L	D	1		10	E200.7	12/03/07 16:56/eli-c
Chloride	1370	mg/L	D	4		100	E300.0	11/21/07 19:48/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/20/07 22:01/jmh
Magnesium	209	mg/L		0.5		1	E200.7	12/04/07 16:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:38/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/07 22:01/jmh
Potassium	11	mg/L		1		10	E200.7	12/03/07 16:56/eli-c
Silica	1.6	mg/L		0.5		1	E200.7	12/04/07 16:52/eli-c
Sodium	1240	mg/L	D	8		10	E200.7	12/03/07 16:56/eli-c
Sulfate	2540	mg/L	D	70		100	E300.0	11/21/07 19:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7290	umhos/cm		5.0		1	A2510 B	11/26/07 15:31/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	11/26/07 15:07/jmh
Sodium Adsorption Ratio (SAR)	13	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	20	mg/L		5		1	D3977	11/27/07 15:14/jmh
Solids, Total Dissolved TDS @ 180 C	6100	mg/L		5		1	A2540 C	11/26/07 15:46/jmh
Solids, Total Suspended TSS @ 105 C	20	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	12/04/07 16:52/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:08/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Iron	0.18	mg/L		0.03		1	E200.7	12/04/07 16:52/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Manganese	0.23	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-002
 Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
 Collection Date: 11/19/07 11:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		10	E200.8 11/27/07 00:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8 11/27/07 23:59/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8 11/27/07 00:08/eli-c
Uranium	0.0182	mg/L		0.0003		10	E200.8 11/27/07 00:08/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8 11/27/07 00:08/eli-c
Zinc	ND	mg/L		0.01		10	E200.8 11/27/07 00:08/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/03/07 13:31/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 12/03/07 13:31/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		5	E200.8 11/29/07 23:36/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8 11/29/07 04:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8 11/27/07 23:06/eli-c
Boron	0.5	mg/L		0.1		1	E200.7 12/04/07 17:06/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 11/27/07 23:06/eli-c
Chromium	ND	mg/L		0.05		5	E200.8 11/29/07 04:32/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 11/20/07 17:55/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8 11/29/07 04:32/eli-c
Iron	0.05	mg/L		0.03		1	E200.7 12/04/07 17:06/eli-c
Lead	ND	mg/L		0.001		1	E200.8 11/26/07 16:36/eli-c
Manganese	0.18	mg/L		0.01		5	E200.8 11/29/07 04:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 11/27/07 23:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 11/27/07 23:06/eli-c
Nickel	ND	mg/L		0.05		5	E200.8 11/29/07 04:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8 11/27/07 23:06/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 11/26/07 16:36/eli-c
Uranium	0.0180	mg/L		0.0003		1	E200.8 11/26/07 16:36/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8 11/29/07 04:32/eli-c
Zinc	0.03	mg/L		0.01		5	E200.8 11/29/07 04:32/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 12/03/07 15:01/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 09:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-002
 Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
 Collection Date: 11/19/07 11:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 12/03/07 15:10/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	4.6	pCi/L		1.0		1	E909.0M 11/27/07 08:00/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M 11/27/07 08:00/eli-c
Polonium 210	1.9	pCi/L		1.0		1	RMO-3008 11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008 11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/04/07 11:15/eli-c
Polonium 210	2.5	pCi/L		1.0		1	RMO-3008 12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008 12/05/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	65.8	pCi/L		1.0		1	E900.0 12/06/07 20:59/eli-c
Gross Alpha precision (±)	6.6	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Beta	44.4	pCi/L		2.0		1	E900.0 12/06/07 20:59/eli-c
Gross Beta precision (±)	14.1	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 11/28/07 11:35/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1 11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	4.6	pCi/L		1.0		1	E909.0M 12/24/07 11:00/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M 12/24/07 11:00/eli-c
Polonium 210	4.4	pCi/L		1.0		1	RMO-3008 12/24/07 11:00/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008 12/24/07 11:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/24/07 11:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.71	%				1	A1030 E 12/24/07 14:56/sec
Anions	95.3	meq/L				1	A1030 E 12/24/07 14:56/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-002
Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
Collection Date: 11/19/07 11:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	90.3	meq/L				1	A1030 E	12/24/07 14:56/sec
Solids, Total Dissolved Calculated	5860	mg/L				1	A1030 E	12/24/07 14:56/sec
TDS Balance (0.80 - 1.20)	1.04	dec. %				1	A1030 E	12/24/07 14:56/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-003
 Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
 Collection Date: 11/19/07 12:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Calcium	426	mg/L	D	1		10	E200.7	12/03/07 16:59/eli-c
Chloride	1040	mg/L	D	4		100	E300.0	11/21/07 20:04/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/07 22:33/jmh
Magnesium	140	mg/L		0.5		1	E200.7	12/04/07 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:40/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	11/20/07 22:33/jmh
Potassium	7	mg/L		1		1	E200.7	12/04/07 16:56/eli-c
Silica	9.1	mg/L		0.5		1	E200.7	12/04/07 16:56/eli-c
Sodium	736	mg/L	D	8		10	E200.7	12/03/07 16:59/eli-c
Sulfate	1920	mg/L	D	10		20	E300.0	11/20/07 22:17/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5460	umhos/cm		5.0		1	A2510 B	11/26/07 15:33/jmh
pH	7.97	s.u.		0.01		1	A4500-H B	11/26/07 15:08/jmh
Sodium Adsorption Ratio (SAR)	7.9	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	14	mg/L		5		1	D3977	11/27/07 15:15/jmh
Solids, Total Dissolved TDS @ 180 C	4500	mg/L		5		1	A2540 C	11/26/07 15:47/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c
Arsenic	0.001	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/04/07 16:56/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:15/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/04/07 16:56/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Manganese	0.10	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-003
 Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
 Collection Date: 11/19/07 12:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		10	E200.8 11/27/07 00:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8 11/28/07 00:36/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8 11/27/07 00:15/eli-c
Uranium	0.0189	mg/L		0.0003		10	E200.8 11/27/07 00:15/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8 11/27/07 00:15/eli-c
Zinc	ND	mg/L		0.01		10	E200.8 11/27/07 00:15/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/03/07 13:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 12/03/07 13:39/eli-c
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		5	E200.8 11/30/07 00:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 11/27/07 23:14/eli-c
Barium	ND	mg/L		0.1		1	E200.8 11/27/07 23:14/eli-c
Boron	0.4	mg/L		0.1		1	E200.7 12/04/07 17:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 11/27/07 23:14/eli-c
Chromium	ND	mg/L		0.05		5	E200.8 11/29/07 04:40/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 11/20/07 17:48/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8 11/29/07 04:40/eli-c
Iron	0.31	mg/L		0.03		1	E200.7 12/04/07 17:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8 11/26/07 16:43/eli-c
Manganese	0.10	mg/L		0.01		5	E200.8 11/29/07 04:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 11/27/07 23:14/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 11/27/07 23:14/eli-c
Nickel	ND	mg/L		0.05		5	E200.8 11/29/07 04:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8 11/27/07 23:14/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 11/26/07 16:43/eli-c
Uranium	0.0177	mg/L		0.0003		1	E200.8 11/26/07 16:43/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8 11/29/07 04:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/27/07 23:14/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	0.004	mg/L		0.001		1	A3114 B 12/03/07 15:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 09:44/eli-c
Selenium-VI	0.004	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-003
 Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
 Collection Date: 11/19/07 12:30
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	0.004	mg/L		0.001		1	A3114 B 12/03/07 15:25/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 10:06/eli-c
Selenium-VI	0.004	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/27/07 08:00/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008 11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/04/07 11:15/eli-c
Polonium 210	1.7	pCi/L		1.0		1	RMO-3008 12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 12/05/07 12:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0 12/11/07 09:36/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	34.7	pCi/L		1.0		1	E900.0 12/06/07 20:59/eli-c
Gross Alpha precision (±)	11.0	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Beta	48.1	pCi/L		2.0		1	E900.0 12/06/07 20:59/eli-c
Gross Beta precision (±)	27.4	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Gamma	1080	pCi/L		20.0		1	E901.1 11/28/07 11:35/eli-c
Gross Gamma precision (±)	172	pCi/L				1	E901.1 11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/24/07 11:00/eli-c
Polonium 210	3.0	pCi/L		1.0		1	RMO-3008 12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008 12/24/07 11:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0 12/24/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/24/07 11:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.84	%				1	A1030 E 12/24/07 14:56/sec
Anions	67.4	meq/L				1	A1030 E 12/24/07 14:56/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-003
Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
Collection Date: 11/19/07 12:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	65.0	meq/L				1	A1030 E	12/24/07 14:56/sec
Solids, Total Dissolved Calculated	4110	mg/L				1	A1030 E	12/24/07 14:56/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	12/24/07 14:56/sec
- Ion Balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-004
 Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
 Collection Date: 11/19/07 15:00
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	26	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Calcium	389	mg/L	D	1		10	E200.7	12/03/07 17:02/eli-c
Chloride	912	mg/L	D	2		50	E300.0	11/21/07 20:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/21/07 00:09/jmh
Magnesium	164	mg/L		0.5		1	E200.7	12/04/07 16:59/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:42/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/21/07 00:09/jmh
Potassium	12	mg/L		1		1	E200.7	12/04/07 16:59/eli-c
Silica	4.4	mg/L		0.5		1	E200.7	12/04/07 16:59/eli-c
Sodium	974	mg/L	D	8		10	E200.7	12/03/07 17:02/eli-c
Sulfate	2340	mg/L	D	40		50	E300.0	11/21/07 20:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6090	umhos/cm		5.0		1	A2510 B	11/26/07 15:35/jmh
pH	7.95	s.u.		0.01		1	A4500-H B	11/26/07 15:09/jmh
Sodium Adsorption Ratio (SAR)	10	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	17	mg/L		5		1	D3977	11/27/07 15:15/jmh
Solids, Total Dissolved TDS @ 180 C	5200	mg/L		5		1	A2540 C	11/26/07 15:47/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/04/07 16:59/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:22/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/04/07 16:59/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110229-004
 Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
 Collection Date: 11/19/07 15:00
 Date Received: 11/19/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		10 E200.8	11/27/07 00:22/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/28/07 00:44/eli-c
Thorium 232	ND	mg/L		0.005		10 E200.8	11/27/07 00:22/eli-c
Uranium	0.0151	mg/L		0.0003		10 E200.8	11/27/07 00:22/eli-c
Vanadium	ND	mg/L		0.1		10 E200.8	11/27/07 00:22/eli-c
Zinc	ND	mg/L		0.01		10 E200.8	11/27/07 00:22/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1 E200.8	12/03/07 13:46/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/03/07 13:46/eli-c
METALS - TOTAL							
Aluminum	0.1	mg/L		0.1		5 E200.8	11/30/07 00:21/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	11/26/07 17:20/eli-c
Barium	ND	mg/L		0.1		1 E200.8	11/26/07 17:20/eli-c
Boron	0.3	mg/L		0.1		1 E200.7	12/04/07 17:12/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/27/07 23:21/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	11/26/07 17:20/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1 A3500-Cr B	11/20/07 18:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1 Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		1 E200.8	11/26/07 17:20/eli-c
Iron	0.24	mg/L		0.03		1 E200.7	12/04/07 17:12/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/26/07 17:20/eli-c
Manganese	0.23	mg/L		0.01		1 E200.8	11/26/07 17:20/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	11/27/07 23:21/eli-c
Molybdenum	ND	mg/L		0.1		1 E200.8	11/26/07 17:20/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	11/26/07 17:20/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/26/07 17:20/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	11/26/07 17:20/eli-c
Uranium	0.0143	mg/L		0.0003		1 E200.8	11/26/07 17:20/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	11/26/07 17:20/eli-c
Zinc	0.01	mg/L		0.01		1 E200.8	11/26/07 17:20/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1 A3114 B	12/03/07 15:06/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/03/07 09:46/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 12/03/07 15:27/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 10:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/27/07 08:00/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008 11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/04/07 11:15/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008 12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008 12/05/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	16.8	pCi/L		1.0		1	E900.0 12/06/07 20:59/eli-c
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Beta	38.0	pCi/L		2.0		1	E900.0 12/06/07 20:59/eli-c
Gross Beta precision (±)	14.0	pCi/L				1	E900.0 12/06/07 20:59/eli-c
Gross Gamma	967	pCi/L		20.0		1	E901.1 11/28/07 11:35/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1 11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/24/07 11:00/eli-c
Polonium 210	2.8	pCi/L		1.0		1	RMO-3008 12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008 12/24/07 11:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/24/07 11:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.58	%				1	A1030 E 12/24/07 14:57/sec
Anions	78.0	meq/L				1	A1030 E 12/24/07 14:57/sec
Cations	75.6	meq/L				1	A1030 E 12/24/07 14:57/sec
Solids, Total Dissolved Calculated	4900	mg/L				1	A1030 E 12/24/07 14:57/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	12/24/07 14:57/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071203A-ALK-SEL-W		
Sample ID: MBLK1_071203A	Method Blank				Run: PH_COND1-R_071203A				12/03/07 15:31
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071203A	Laboratory Control Sample				Run: PH_COND1-R_071203A				12/03/07 15:32
Alkalinity, Total as CaCO3	1000	mg/L	5.0	102	90	110			
Sample ID: R07110246-006BMS	Sample Matrix Spike				Run: PH_COND1-R_071203A				12/03/07 16:51
Alkalinity, Total as CaCO3	310	mg/L	5.0	91	80	120			
Sample ID: R07110246-006BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_071203A				12/03/07 16:57
Alkalinity, Total as CaCO3	300	mg/L	5.0	83	80	120	2.6	20	
Method: A2510 B							Batch: 071126_1_COND-PROBE-W		
Sample ID: LCS1-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A				11/26/07 15:20
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A				11/26/07 15:20
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A				11/26/07 15:22
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071126	Method Blank				Run: PH_COND2-R_071126A				11/26/07 15:23
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110227-001ADUP	Sample Duplicate				Run: PH_COND2-R_071126A				11/26/07 15:27
Conductivity @ 25 C	1020	umhos/cm	5.0				0.0	10	
Method: A2540 C							Batch: 071126A-SLDS-TDS-W		
Sample ID: MBLK1_071126A	Method Blank				Run: BAL-4-R_071126B				11/26/07 15:42
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: LCS1_071126A	Laboratory Control Sample				Run: BAL-4-R_071126B				11/26/07 15:43
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			
Sample ID: R07110245-002BMS	Sample Matrix Spike				Run: BAL-4-R_071126B				11/26/07 15:49
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	95	80	120			
Sample ID: R07110245-002BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071126B				11/26/07 15:50
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	110	80	120	1.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071119A-SLDS-TSS-W		
Sample ID: MBLK1_071119A	Method Blank					Run: BAL-4-R_071119A			11/19/07 13:41
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071119A	Laboratory Control Sample					Run: BAL-4-R_071119A			11/19/07 13:42
Solids, Total Suspended TSS @ 105 C	210	mg/L	5.0	106	85	115			
Method: A3114 B							Batch: C_16944		
Sample ID: MB-16944	Method Blank					Run: SUB-C93347			11/26/07 16:54
Selenium	ND	mg/L	0.0004						
Sample ID: LCS-16944	Laboratory Control Sample					Run: SUB-C93347			11/26/07 17:30
Selenium	0.50	mg/L	0.0088	101	90	110			
Sample ID: R07110229-003H	Sample Matrix Spike					Run: SUB-C93669			12/03/07 15:46
Selenium	0.052	mg/L	0.0010	96	85	115			
Sample ID: R07110229-003H	Sample Matrix Spike Duplicate					Run: SUB-C93669			12/03/07 15:48
Selenium	0.050	mg/L	0.0010	92	85	115	4.1	10	
Method: A3114 B							Batch: C_SE3114-071203		
Sample ID: MBLK	Method Blank					Run: SUB-C93637			12/03/07 09:29
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07110184-001E	Sample Matrix Spike					Run: SUB-C93637			12/03/07 09:53
Selenium-IV	0.050	mg/L	0.0010	99	85	115			
Sample ID: R07110184-001E	Sample Matrix Spike Duplicate					Run: SUB-C93637			12/03/07 09:55
Selenium-IV	0.050	mg/L	0.0010	99	85	115	0.0	10	
Sample ID: 301-119-5	Laboratory Control Sample					Run: SUB-C93637			12/03/07 09:57
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R07110229-003H	Sample Matrix Spike					Run: SUB-C93637			12/03/07 10:10
Selenium-IV	0.052	mg/L	0.0010	105	85	115			
Sample ID: R07110229-003H	Sample Matrix Spike Duplicate					Run: SUB-C93637			12/03/07 10:12
Selenium-IV	0.051	mg/L	0.0010	103	85	115	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-071203B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0004						Run: SUB-C93669 12/03/07 14:47
Sample ID: C07110759-001EMS Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	97	85	115			Run: SUB-C93669 12/03/07 15:12
Sample ID: C07110759-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	101	85	115	3.6	10	Run: SUB-C93669 12/03/07 15:14
Sample ID: 301-119-4 Selenium	Laboratory Control Sample 0.050	mg/L	0.0010	100	90	110			Run: SUB-C93669 12/03/07 15:16
Method: A3500-Cr B							Batch: 071120A-CR-HEX-W		
Sample ID: MBLK1_071120A Chromium, Hexavalent	Method Blank ND	mg/L	0.005						Run: SPEC1_071120A 11/20/07 17:43
Sample ID: LCS1_071120A Chromium, Hexavalent	Laboratory Control Sample 0.21	mg/L	0.0050	103	80	120			Run: SPEC1_071120A 11/20/07 17:46
Sample ID: R07110229-001DMS Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	102	80	120			Run: SPEC1_071120A 11/20/07 17:46
Sample ID: R07110229-002DMS Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	103	80	120			Run: SPEC1_071120A 11/20/07 17:47
Sample ID: R07110229-003DMS Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	103	80	120			Run: SPEC1_071120A 11/20/07 17:48
Sample ID: R07110229-004DMS Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	103	80	120			Run: SPEC1_071120A 11/20/07 17:48
Method: A4500-H B							Batch: 071126_1_PH-W		
Sample ID: LCS_pH-1_071126 pH	Laboratory Control Sample 6.86	s.u.	0.010	100	98.55	101.45			Run: PH_COND2-R_071126A 11/26/07 15:00
Sample ID: R07110216-001BDUP pH	Sample Duplicate 8.26	s.u.	0.010				0.2	1.25	Run: PH_COND2-R_071126A 11/26/07 15:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-11-29_2_NH3_01		
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	90	90	110			11/29/07 14:58
Sample ID: LFB-5 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	95	90	110			11/29/07 14:59
Sample ID: MBLK-6 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02						11/29/07 15:00
Sample ID: R07110229-001BDUP Nitrogen, Ammonia as N	Sample Duplicate ND	mg/L	0.10				0.0	10	11/29/07 16:37
Sample ID: R07110229-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.23	mg/L	0.10	90	80	120			11/29/07 16:39
Method: A9222 D							Batch: 071120-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml	1						11/20/07 09:00
Sample ID: R07110208-001A Bacteria, Fecal Coliform	Sample Duplicate ND	CFU/100ml	2.0				0.0	10	11/20/07 09:00
Method: E200.7							Batch: C_16944		
Sample ID: MB-16944 Boron Iron	Method Blank ND ND	mg/L mg/L	0.01 0.009						12/03/07 14:51
Sample ID: LCS-16944 Boron Iron	Laboratory Control Sample 0.45 0.48	mg/L mg/L	0.10 0.030	90 95	85 85	115 115			12/03/07 15:01
Sample ID: R07110229-001F Boron Iron	Sample Matrix Spike 9.00 9.41	mg/L mg/L	0.13 0.087	88 89	70 70	130 130			12/03/07 17:25
Sample ID: R07110229-001F Boron Iron	Sample Matrix Spike Duplicate 9.31 9.46	mg/L mg/L	0.13 0.087	92 89	70 70	130 130	3.4 0.5	20 20	12/03/07 17:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93677		
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93677		12/03/07 12:19		
Calcium	ND	mg/L	0.50		85	125			S
Potassium	0.093	mg/L	0.50		85	125			S
Sodium	ND	mg/L	0.76		85	125			S
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93677		12/03/07 12:22		
Calcium	26	mg/L	0.50	102	85	125			
Potassium	28	mg/L	0.50	111	85	125			
Sodium	27	mg/L	0.76	109	85	125			
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93677		12/03/07 13:44		
Silica	2.0	mg/L	0.10	101	85	125			
Sample ID: C07111052-001EMS1	Sample Matrix Spike				Run: SUB-C93677		12/03/07 17:55		
Calcium	61.3	mg/L	0.50	86	70	130			
Potassium	54.4	mg/L	0.50	82	70	130			
Sodium	124	mg/L	0.76	88	70	130			
Sample ID: C07111052-001EMSD1	Sample Matrix Spike Duplicate				Run: SUB-C93677		12/03/07 17:58		
Calcium	62.1	mg/L	0.50	87	70	130	1.3	20	
Potassium	55.2	mg/L	0.50	84	70	130	1.5	20	
Sodium	123	mg/L	0.76	86	70	130	0.9	20	
Method: E200.7							Batch: C_R93762		
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93762		12/04/07 10:30		
Silica	2.0	mg/L	0.10	99	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93762		12/04/07 10:33		
Magnesium	26	mg/L	0.50	105	85	125			
Potassium	27	mg/L	0.50	110	85	125			
Sample ID: LCS-17008	Laboratory Control Sample				Run: SUB-C93762		12/04/07 11:48		
Boron	0.48	mg/L	0.10	95	85	115			
Iron	0.50	mg/L	0.030	99	85	115			
Magnesium	45	mg/L	0.50	91	85	115			
Potassium	47	mg/L	0.50	95	85	115			
Silica	0.49	mg/L	0.10	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R93762		
Sample ID: C07110911-007CMS	Sample Matrix Spike		Run: SUB-C93762				12/04/07 12:31		
Boron	0.92	mg/L	0.10	92	70	130			
Iron	1.0	mg/L	0.030	88	70	130			
Magnesium	66	mg/L	0.50	82	70	130			
Potassium	110	mg/L	0.50	89	70	130			
Silica	9.9	mg/L	0.10		0	0			A
Sample ID: C07110911-007CMSD	Sample Matrix Spike Duplicate		Run: SUB-C93762				12/04/07 12:34		
Boron	0.92	mg/L	0.10	92	70	130	0.5	20	
Iron	1.0	mg/L	0.030	88	70	130	0.5	20	
Magnesium	66	mg/L	0.50	81	70	130	0.6	20	
Potassium	110	mg/L	0.50	86	70	130	3.0	20	
Silica	10.0	mg/L	0.10		70	130	0.7	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16944		
Sample ID: MB-16944	Method Blank			Run: SUB-C93362			11/26/07 14:59		
Arsenic	ND	mg/L	0.0001						
Barium	0.0003	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	0.0001	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0003	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	0.0003	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0002						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	0.002	mg/L	0.002						
Sample ID: LCS1-16944	Laboratory Control Sample			Run: SUB-C93362			11/26/07 15:07		
Arsenic	0.020	mg/L	0.0010	100	80	120			
Barium	0.021	mg/L	0.10	105	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.021	mg/L	0.050	103	80	120			
Copper	0.021	mg/L	0.010	102	80	120			
Lead	0.020	mg/L	0.050	102	80	120			
Manganese	0.020	mg/L	0.010	99	80	120			
Molybdenum	0.020	mg/L	0.10	96	80	120			
Nickel	0.021	mg/L	0.050	103	80	120			
Silver	0.021	mg/L	0.010	105	80	120			
Thorium 232	0.019	mg/L	0.0010	93	80	120			
Uranium	0.019	mg/L	0.00030	95	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.023	mg/L	0.010	102	80	120			
Sample ID: LCS-16944	Laboratory Control Sample			Run: SUB-C93432			11/27/07 22:14		
Aluminum	0.52	mg/L	0.10	103	85	115			
Arsenic	0.51	mg/L	0.0013	101	85	115			
Barium	0.49	mg/L	0.10	97	85	115			
Cadmium	0.48	mg/L	0.010	97	85	115			
Chromium	0.49	mg/L	0.050	98	85	115			
Copper	0.51	mg/L	0.010	102	85	115			
Lead	0.49	mg/L	0.050	97	85	115			
Manganese	0.50	mg/L	0.010	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16944		
Sample ID: LCS-16944	Laboratory Control Sample			Run: SUB-C93432			11/27/07 22:14		
Molybdenum	0.47	mg/L	0.10	95	85	115			
Nickel	0.50	mg/L	0.050	101	85	115			
Silver	0.19	mg/L	0.010	96	85	115			
Uranium	0.49	mg/L	0.00038	98	85	115			
Vanadium	0.49	mg/L	0.10	97	85	115			
Zinc	0.52	mg/L	0.017	103	85	115			
Sample ID: R07110229-004F	Post Digestion Spike			Run: SUB-C93565			11/30/07 00:29		
Aluminum	0.504	mg/L	0.10	154	70	130			S
Arsenic	0.274	mg/L	0.0010	109	70	130			
Barium	0.326	mg/L	0.10	115	70	130			
Cadmium	0.261	mg/L	0.010	104	70	130			
Chromium	0.266	mg/L	0.050	106	70	130			
Copper	0.253	mg/L	0.010	98	70	130			
Lead	0.277	mg/L	0.050	111	70	130			
Manganese	0.484	mg/L	0.010	109	70	130			
Mercury	0.0290	mg/L	0.0010	116	70	130			
Molybdenum	0.285	mg/L	0.10	113	70	130			
Nickel	0.254	mg/L	0.050	97	70	130			
Silver	0.103	mg/L	0.010	103	70	130			
Thorium 232	0.285	mg/L	0.0010	114	70	130			
Uranium	0.304	mg/L	0.00030	116	70	130			
Vanadium	0.273	mg/L	0.10	109	70	130			
Zinc	0.265	mg/L	0.010	97	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110229-004F	Post Digestion Spike Duplicate			Run: SUB-C93565			11/30/07 00:36		
Aluminum	0.661	mg/L	0.10	217	70	130	27	20	SR
Arsenic	0.270	mg/L	0.0010	108	70	130	1.2	20	
Barium	0.321	mg/L	0.10	113	70	130	1.6	20	
Cadmium	0.265	mg/L	0.010	105	70	130	1.5	20	
Chromium	0.266	mg/L	0.050	106	70	130	0.0	20	
Copper	0.256	mg/L	0.010	100	70	130	1.2	20	
Lead	0.277	mg/L	0.050	111	70	130	0.2	20	
Manganese	0.485	mg/L	0.010	109	70	130	0.1	20	
Mercury	0.0287	mg/L	0.0010	115	70	130	0.7	20	
Molybdenum	0.288	mg/L	0.10	114	70	130	1.1	20	
Nickel	0.263	mg/L	0.050	101	70	130	3.3	20	
Silver	0.107	mg/L	0.010	107	70	130	3.4	20	
Thorium 232	0.292	mg/L	0.0010	117	70	130	2.2	20	
Uranium	0.305	mg/L	0.00030	116	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16944		
Sample ID: R07110229-004F	Post Digestion Spike Duplicate				Run: SUB-C93565			11/30/07 00:36	
Vanadium	0.271	mg/L	0.10	109	70	130	0.6	20	
Zinc	0.283	mg/L	0.010	104	70	130	6.3	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.8							Batch: C_17017		
Sample ID: MB-17017	Method Blank				Run: SUB-C93696			12/03/07 13:01	
Thorium 232	0.0002	mg/L							
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17017	Laboratory Control Sample				Run: SUB-C93696			12/03/07 13:09	
Uranium	0.0631	mg/L	0.00030	100	80	120			
Sample ID: R07110229-004K	Post Digestion Spike				Run: SUB-C93696			12/03/07 13:54	
Thorium 232	0.0252	mg/L	0.0010	105	70	130			
Uranium	0.0250	mg/L	0.00030	105	70	130			
Sample ID: R07110229-004K	Post Digestion Spike Duplicate				Run: SUB-C93696			12/03/07 14:24	
Thorium 232	0.0257	mg/L	0.0010	107	70	130	2.0	20	
Uranium	0.0253	mg/L	0.00030	106	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93352		
Sample ID: LRB	Method Blank		Run: SUB-C93352				11/26/07 11:53		
Aluminum	0.002	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	0.0001	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C93352				11/26/07 12:00		
Aluminum	0.0525	mg/L	0.0010	102	85	115			
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0518	mg/L	0.0010	103	85	115			
Cadmium	0.0519	mg/L	0.0010	104	85	115			
Chromium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0523	mg/L	0.0010	104	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00513	mg/L	0.0010	103	85	115			
Molybdenum	0.0515	mg/L	0.0010	103	85	115			
Nickel	0.0513	mg/L	0.0010	103	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0518	mg/L	0.00030	104	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0533	mg/L	0.0010	103	85	115			
Sample ID: R07110184-004C	Post Digestion Spike		Run: SUB-C93352				11/26/07 19:09		
Arsenic	0.507	mg/L	0.0010	101	70	130			
Barium	0.523	mg/L	0.10	100	70	130			
Cadmium	0.508	mg/L	0.010	102	70	130			
Chromium	0.515	mg/L	0.050	102	70	130			
Copper	0.513	mg/L	0.010	102	70	130			
Lead	0.512	mg/L	0.050	102	70	130			
Manganese	0.826	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93352		
Sample ID: R07110184-004C	Post Digestion Spike			Run: SUB-C93352			11/26/07 19:09		
Mercury	0.0531	mg/L	0.0010	106	70	130			
Molybdenum	0.508	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Thorium 232	0.508	mg/L	0.0010	102	70	130			
Uranium	0.505	mg/L	0.00030	101	70	130			
Vanadium	0.514	mg/L	0.10	103	70	130			
Zinc	0.421	mg/L	0.010	84	70	130			
Sample ID: R07110184-004C	Post Digestion Spike Duplicate			Run: SUB-C93352			11/26/07 19:29		
Arsenic	0.517	mg/L	0.0010	103	70	130	2.0	20	
Barium	0.525	mg/L	0.10	100	70	130	0.3	20	
Cadmium	0.515	mg/L	0.010	103	70	130	1.3	20	
Chromium	0.520	mg/L	0.050	103	70	130	0.9	20	
Copper	0.512	mg/L	0.010	102	70	130	0.1	20	
Lead	0.518	mg/L	0.050	104	70	130	1.1	20	
Manganese	0.830	mg/L	0.010	100	70	130	0.5	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	0.4	20	
Molybdenum	0.516	mg/L	0.10	103	70	130	1.5	20	
Nickel	0.518	mg/L	0.050	104	70	130	1.1	20	
Thorium 232	0.510	mg/L	0.0010	102	70	130	0.4	20	
Uranium	0.507	mg/L	0.00030	101	70	130	0.3	20	
Vanadium	0.523	mg/L	0.10	105	70	130	1.9	20	
Zinc	0.445	mg/L	0.010	89	70	130	5.7	20	
Sample ID: C07110998-002BMS4	Post Digestion Spike			Run: SUB-C93352			11/26/07 23:14		
Arsenic	0.0539	mg/L	0.0010	104	70	130			
Barium	0.458	mg/L	0.10		70	130			A
Cadmium	0.0478	mg/L	0.010	95	70	130			
Chromium	0.0479	mg/L	0.050	92	70	130			
Copper	0.0528	mg/L	0.010	93	70	130			
Lead	0.0524	mg/L	0.050	105	70	130			
Manganese	0.0468	mg/L	0.010	92	70	130			
Mercury	0.00541	mg/L	0.0010	106	70	130			
Molybdenum	0.0527	mg/L	0.10	104	70	130			
Nickel	0.0542	mg/L	0.050	97	70	130			
Thorium 232	0.0557	mg/L	0.0010	111	70	130			
Uranium	0.126	mg/L	0.00030	106	70	130			
Vanadium	0.0514	mg/L	0.10	96	70	130			
Zinc	0.0408	mg/L	0.010	80	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93352		
Sample ID: C07110998-002BMSD4	Post Digestion Spike Duplicate			Run: SUB-C93352			11/26/07 23:20		
Arsenic	0.0524	mg/L	0.0010	101	70	130	2.8	20	
Barium	0.459	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0471	mg/L	0.010	93	70	130	1.4	20	
Chromium	0.0482	mg/L	0.050	93	70	130	0.0	20	
Copper	0.0517	mg/L	0.010	91	70	130	2.1	20	
Lead	0.0518	mg/L	0.050	104	70	130	1.2	20	
Manganese	0.0467	mg/L	0.010	92	70	130	0.2	20	
Mercury	0.00555	mg/L	0.0010	109	70	130	2.5	20	
Molybdenum	0.0534	mg/L	0.10	105	70	130	0.0	20	
Nickel	0.0529	mg/L	0.050	95	70	130	2.4	20	
Thorium 232	0.0554	mg/L	0.0010	111	70	130	0.6	20	
Uranium	0.125	mg/L	0.00030	104	70	130	0.9	20	
Vanadium	0.0520	mg/L	0.10	97	70	130	0.0	20	
Zinc	0.0445	mg/L	0.010	87	70	130	8.5	20	
Method: E200.8							Batch: C_R93432		
Sample ID: LRB	Method Blank			Run: SUB-C93432			11/27/07 14:37		
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93432			11/27/07 14:44		
Silver	0.0434	mg/L	0.0010	109	85	115			
Sample ID: C07110770-011BMS4	Post Digestion Spike			Run: SUB-C93432			11/28/07 00:59		
Silver	0.174	mg/L	0.010	87	70	130			
Sample ID: C07110770-011BMSD4	Post Digestion Spike Duplicate			Run: SUB-C93432			11/28/07 01:07		
Silver	0.183	mg/L	0.010	91	70	130	5.0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32339
Sample ID: LFB0711202015-3	Laboratory Fortified Blank					Run: DIONEX_071120A			11/20/07 19:38
Chloride	4.65	mg/L	0.50	93	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: LFB0711202015-4	Laboratory Fortified Blank					Run: DIONEX_071120A			11/20/07 19:54
Chloride	4.68	mg/L	0.50	94	90	110			
Fluoride	1.95	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: R07110229-001AMS	Sample Matrix Spike					Run: DIONEX_071120A			11/20/07 20:58
Chloride	257	mg/L	0.80	81	80	120			
Fluoride	39.6	mg/L	1.3	99	80	120			
Nitrogen, Nitrate as N	46.7	mg/L	0.34	93	80	120			
Sulfate	4900	mg/L	14		80	120			A
Sample ID: R07110229-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071120A			11/20/07 21:13
Chloride	254	mg/L	0.80	78	80	120	1.3	10	S
Fluoride	39.1	mg/L	1.3	98	80	120	1.3	10	
Nitrogen, Nitrate as N	45.7	mg/L	0.34	91	80	120	2.3	10	
Sulfate	4840	mg/L	14		80	120	1.3	10	A
Sample ID: R07110229-004AMS	Sample Matrix Spike					Run: DIONEX_071120A			11/20/07 23:37
Chloride	972	mg/L	0.80		80	120			A
Fluoride	40.6	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	48.5	mg/L	0.34	97	80	120			
Sulfate	2620	mg/L	14		80	120			A
Sample ID: R07110229-004AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071120A			11/20/07 23:53
Chloride	973	mg/L	0.80		80	120	0.1	10	A
Fluoride	40.0	mg/L	1.3	100	80	120	1.5	10	
Nitrogen, Nitrate as N	44.9	mg/L	0.34	90	80	120	7.7	10	
Sulfate	2630	mg/L	14		80	120	0.3	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32359		
Sample ID: LFB0711215036-3	Laboratory Fortified Blank								Run: DIONEX_071121A 11/21/07 18:12
Chloride	4.87	mg/L	0.50	97	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0711215036-4	Laboratory Fortified Blank								Run: DIONEX_071121A 11/21/07 18:28
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110255-001BMS	Sample Matrix Spike								Run: DIONEX_071121A 11/21/07 19:00
Chloride	24.4	mg/L	0.50		80	120			A
Sulfate	38.4	mg/L	1.0	81	80	120			
Sample ID: R07110255-001BMSD	Sample Matrix Spike Duplicate								Run: DIONEX_071121A 11/21/07 19:16
Chloride	24.6	mg/L	0.50		80	120	0.9	10	A
Sulfate	38.3	mg/L	1.0	81	80	120	0.2	10	
Method: E900.0							Batch: C_GrAB-0362		
Sample ID: MB-GrAB-0362	Method Blank								Run: SUB-C93940 12/05/07 03:47
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0362	Laboratory Control Sample								Run: SUB-C93940 12/05/07 03:47
Gross Alpha	300	pCi/L	1.0	105	70	130			
Sample ID: Cs137-GrAB-0362	Laboratory Control Sample								Run: SUB-C93940 12/05/07 03:47
Gross Beta	90	pCi/L	2.0	91	70	130			
Sample ID: C07110703-001AMS	Sample Matrix Spike								Run: SUB-C93940 12/05/07 03:47
Gross Alpha	221	pCi/L	1.0	90	70	130			
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C93940 12/05/07 03:47
Gross Alpha	195	pCi/L	1.0	79	70	130	13	13	
Sample ID: C07110703-001AMS	Sample Matrix Spike								Run: SUB-C93940 12/05/07 03:47
Gross Beta	72.2	pCi/L	2.0	68	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C93940 12/05/07 03:47
Gross Beta	86.6	pCi/L	2.0	83	70	130	18	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R93522		
Sample ID: LCS-R93522		Laboratory Control Sample		Run: SUB-C93522			11/28/07 11:35		
Cesium 137	1160	pCi/L	20	82	70	130			
Potassium 40	7190	pCi/L	20	108	70	130			
Sample ID: MB-R93522		Method Blank		Run: SUB-C93522			11/28/07 11:35		
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07110229-0021		Sample Duplicate		Run: SUB-C93522			11/28/07 11:35		
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R93522		
Sample ID: R07110229-002I	Sample Duplicate					Run: SUB-C93522			11/28/07 11:35
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0							Batch: C_RA226-2461		
Sample ID: C07110974-001DMS	Sample Matrix Spike					Run: SUB-C93741			12/04/07 15:46
Radium 226	20	pCi/L	0.20	92	70	130			
Sample ID: C07110974-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C93741			12/04/07 17:06
Radium 226	23	pCi/L	0.20	103	70	130	11	29.7	
Sample ID: MB-RA226-2461	Method Blank					Run: SUB-C93741			12/04/07 17:06
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2461	Laboratory Control Sample					Run: SUB-C93741			12/04/07 17:06
Radium 226	12	pCi/L	0.20	95	70	130			
Method: E907.0							Batch: C_17017		
Sample ID: MB-17017	Method Blank					Run: SUB-C94041			12/05/07 15:00
Thorium 230	ND	pCi/L	0.2						
Sample ID: C07111076-001ADUP	Sample Duplicate					Run: SUB-C94041			12/05/07 15:00
Thorium 230	ND	pCi/Filter	0.20				0.0	30	
Sample ID: C07111076-002AMS	Sample Matrix Spike					Run: SUB-C94041			12/05/07 15:00
Thorium 230	63.9	pCi/Filter	0.20	116	70	130			
Method: E907.0							Batch: C_R93936		
Sample ID: LCS-R93936	Laboratory Control Sample					Run: SUB-C93936			11/29/07 14:30
Thorium 230	6.40	pCi/L	0.20	108	70	130			
Sample ID: C07110728-007AMS	Sample Matrix Spike					Run: SUB-C93936			11/29/07 14:30
Thorium 230	69.2	pCi/L	0.20	118	70	130			
Sample ID: C07110728-007AMSD	Sample Matrix Spike Duplicate					Run: SUB-C93936			11/29/07 14:30
Thorium 230	60.3	pCi/L	0.20	103	70	130	14	30	
Sample ID: MB-R93936	Method Blank					Run: SUB-C93936			11/29/07 14:30
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/08
 Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_17017		
Sample ID: C07111199-002AMS	Sample Matrix Spike				Run: SUB-C93925		12/04/07 11:15		
Lead 210	786	pCi/Filter	1.0	68	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: C07111199-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93925		12/04/07 11:15		
Lead 210	679	pCi/Filter	1.0	55	70	130	15	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: MB-R93925	Method Blank				Run: SUB-C93925		12/04/07 11:15		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93925	Laboratory Control Sample				Run: SUB-C93925		12/04/07 11:15		
Lead 210	64	pCi/L	1.0	80	70	130			
Method: E909.0M							Batch: C_R93744		
Sample ID: C07110947-004AMS	Sample Matrix Spike				Run: SUB-C93744		11/27/07 08:00		
Lead 210	400	pCi/L	1.0	99	70	130			
Sample ID: C07110947-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93744		11/27/07 08:00		
Lead 210	400	pCi/L	1.0	100	70	130	1.1	30	
Sample ID: MB-R93744	Method Blank				Run: SUB-C93744		11/27/07 08:00		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93744	Laboratory Control Sample				Run: SUB-C93744		11/27/07 08:00		
Lead 210	70	pCi/L	1.0	87	70	130			
Method: RMO-3008							Batch: C_17017		
Sample ID: LCS-17017	Laboratory Control Sample				Run: SUB-C93991		12/05/07 12:00		
Polonium 210	16	pCi/L	1.0	73	70	130			
Sample ID: MB-17017	Method Blank				Run: SUB-C93991		12/05/07 12:00		
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R93732
Sample ID: C07110982-002EMS Polonium 210	Sample Matrix Spike 190	pCi/L	1.0	85	70	130			Run: SUB-C93732 11/28/07 12:30
Sample ID: C07110982-002EMSD Polonium 210	Sample Matrix Spike Duplicate 200	pCi/L	1.0	87	70	130	2.0	30	Run: SUB-C93732 11/28/07 12:30
Sample ID: LCS-R93732 Polonium 210	Laboratory Control Sample 19	pCi/L	1.0	84	70	130			Run: SUB-C93732 11/28/07 12:30
Sample ID: MB-R93732 Polonium 210	Method Blank ND	pCi/L	1						Run: SUB-C93732 11/28/07 12:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc: Powerful Dewey Burdock		Sample Origin State: State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Corey Foreman	Phone/Fax: 394-6800	Email:	Sampler: (Please Print) Eric Crantz
Invoice Address: RESPEC		Invoice Contact & Phone:		Purchase Order:	Quoter/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Shipped by: Cooler ID(s): Receipt Temp: 4.2 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1. Dew Burd CHR 01 11/19/07 0945 W MATRIX 2. Dew Burd BUC 01 11/19/07 1130 W 3. Dew Burd BUC 04 11/19/07 1230 W 4. Dew Burd CHR 05 11/19/07 15:00 W		ANALYSIS REQUESTED Number of Containers: _____ Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		RUSH Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: SN	
Custody Record MUST be Signed Requested by (print): Eric Crantz Date/Time: 11/17/07 1730 Requested by (print): _____ Date/Time: _____		Received by Laboratory: Received by (print): Steve Hreibund Date/Time: 11-19-07 1730 Received by (print): _____ Date/Time: _____		Signature: [Signature] Signature: [Signature]	
Sample Disposal: Return to Client		Lab Disposal:		Date/Time:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

January 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110302 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110302-001	DewBurdSub08	11/27/07 8:35	11/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110302-002	DewBurdSub06	11/27/07 9:36	11/28/07	Aqueous	Same As Above
R07110302-003	DewBurdSub11	11/27/07 10:08	11/28/07	Aqueous	Same As Above
R07110302-004	DewBurdBK01	11/27/07 21:45	11/28/07	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-001
 Client Sample ID: DewBurdSub08

Report Date: 01/30/08
 Collection Date: 11/27/07 08:35
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2			A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	136	mg/L		5			A2320 B	12/11/07 18:01/sn
Carbonate as CO3	ND	mg/L		5			A2320 B	12/11/07 18:01/sn
Bicarbonate as HCO3	166	mg/L		5			A2320 B	12/11/07 18:01/sn
Calcium	134	mg/L		0.5			E200.7	12/19/07 16:56/eli-c
Chloride	26	mg/L		1			E300.0	11/30/07 01:44/jmh
Fluoride	0.4	mg/L		0.1			E300.0	11/29/07 00:03/jmh
Magnesium	55.9	mg/L		0.5			E200.7	12/19/07 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			A4500-NH3 G	12/04/07 16:00/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1			E300.0	11/29/07 00:03/jmh
Potassium	13	mg/L		1			E200.7	12/19/07 16:56/eli-c
Silica	7.0	mg/L		0.5			E200.7	12/19/07 16:56/eli-c
Sodium	576	mg/L	D	8			E200.7	12/19/07 15:18/eli-c
Sulfate	1580	mg/L	D	40			E300.0	11/28/07 23:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3160	umhos/cm		5.0			A2510 B	12/02/07 13:22/jmh
pH	7.59	s.u.		0.01			A4500-H B	12/02/07 13:43/jmh
Sodium Adsorption Ratio (SAR)	11	meq/L		0.10			Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5			D3977	12/04/07 15:16/jmh
Solids, Total Dissolved TDS @ 180 C	2600	mg/L		5			A2540 C	12/03/07 13:35/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			A2540 D	12/03/07 12:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1			E200.8	12/08/07 00:13/eli-c
Arsenic	ND	mg/L		0.001			E200.8	12/08/07 00:13/eli-c
Barium	ND	mg/L		0.1			E200.8	12/08/07 00:13/eli-c
Boron	0.5	mg/L		0.1			E200.7	12/19/07 16:56/eli-c
Cadmium	ND	mg/L		0.005			E200.8	12/08/07 00:13/eli-c
Chromium	ND	mg/L		0.01			E200.8	12/08/07 00:13/eli-c
Copper	ND	mg/L		0.01			E200.8	12/08/07 00:13/eli-c
Iron	ND	mg/L		0.03			E200.7	12/19/07 16:56/eli-c
Lead	ND	mg/L		0.001			E200.8	12/08/07 00:13/eli-c
Manganese	0.09	mg/L		0.01			E200.8	12/08/07 00:13/eli-c
Mercury	ND	mg/L		0.001			E200.8	12/08/07 00:13/eli-c
Molybdenum	ND	mg/L		0.1			E200.8	12/08/07 00:13/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-001
 Client Sample ID: DewBurdSub08

Report Date: 01/30/08
 Collection Date: 11/27/07 08:35
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		10	E200.8 12/08/07 00:13/eli-c
Silver	ND	mg/L		0.005		10	E200.8 12/08/07 00:13/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8 12/08/07 00:13/eli-c
Uranium	0.0028	mg/L		0.0003		10	E200.8 12/08/07 00:13/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8 12/08/07 00:13/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8 12/08/07 00:13/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/13/07 20:36/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8 12/13/07 20:36/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1	E200.8 12/29/07 03:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 12/29/07 03:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/01/08 05:43/eli-c
Boron	0.5	mg/L		0.1		1	E200.7 01/02/08 18:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/29/07 03:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/29/07 03:47/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 11/28/07 15:06/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1	E200.8 12/29/07 03:47/eli-c
Iron	0.10	mg/L		0.03		1	E200.7 01/02/08 18:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/29/07 03:47/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8 12/29/07 03:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/29/07 03:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/29/07 03:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/01/08 05:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/29/07 03:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/29/07 03:47/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8 12/29/07 03:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/29/07 03:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/29/07 03:47/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 12/30/07 10:26/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/29/07 09:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-001
 Client Sample ID: DewBurdSub08

Report Date: 01/30/08
 Collection Date: 11/27/07 08:35
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:01/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0	12/18/07 01:54/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/07 01:54/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/17/07 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 11:19/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	4.8	pCi/L		1.0		1	E900.0	12/19/07 21:05/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Beta	9.7	pCi/L		2.0		1	E900.0	12/19/07 21:05/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	0.5	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
DATA QUALITY								
A/C Balance (± 5)	0.414	%				1	A1030 E	01/16/08 18:44/sec
Anions	36.4	meq/L				1	A1030 E	01/16/08 18:44/sec
Cations	36.7	meq/L				1	A1030 E	01/16/08 18:44/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-001
 Client Sample ID: DewBurdSub08

Report Date: 01/30/08
 Collection Date: 11/27/07 08:35
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Solids, Total Dissolved Calculated	2470	mg/L					1	A1030 E 01/16/08 18:44/sec
TDS Balance (0.80 - 1.20)	1.05	dec. %					1	A1030 E 01/16/08 18:44/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-002
 Client Sample ID: DewBurdSub06

Report Date: 01/30/08
 Collection Date: 11/27/07 09:36
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Calcium	471	mg/L	D	1		10	E200.7	12/19/07 15:21/eli-c
Chloride	7	mg/L		1		1	E300.0	11/29/07 01:39/jmh
Fluoride	5.5	mg/L		0.1		1	E300.0	11/29/07 01:39/jmh
Magnesium	707	mg/L		0.5		10	E200.7	12/19/07 15:21/eli-c
Nitrogen, Ammonia as N	3.4	mg/L	D	0.2		10	A4500-NH3 G	12/04/07 16:03/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	11/29/07 01:39/jmh
Potassium	29	mg/L		1		1	E200.7	12/19/07 16:59/eli-c
Silica	34.1	mg/L		0.5		10	E200.7	12/19/07 15:21/eli-c
Sodium	86.1	mg/L	D	0.8		1	E200.7	12/19/07 16:59/eli-c
Sulfate	5700	mg/L	D	40		50	E300.0	11/29/07 00:51/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6390	umhos/cm		5.0		1	A2510 B	12/02/07 13:23/jmh
pH	3.20	s.u.		0.01		1	A4500-H B	12/02/07 13:44/jmh
Sodium Adsorption Ratio (SAR)	0.59	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	12/04/07 15:17/jmh
Solids, Total Dissolved TDS @ 180 C	8600	mg/L		5		1	A2540 C	12/03/07 13:36/jmh
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	12/03/07 12:18/jmh
METALS - DISSOLVED								
Aluminum	131	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	01/07/08 21:17/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/19/07 16:59/eli-c
Cadmium	0.026	mg/L		0.005		1	E200.8	01/07/08 21:17/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:20/eli-c
Copper	0.10	mg/L		0.01		1	E200.8	01/07/08 21:17/eli-c
Iron	5.74	mg/L		0.03		1	E200.7	12/19/07 16:59/eli-c
Lead	0.001	mg/L		0.001		10	E200.8	12/08/07 00:20/eli-c
Manganese	249	mg/L		0.01		10	E200.7	12/19/07 15:21/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:20/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-002
 Client Sample ID: DewBurdSub06

Report Date: 01/30/08
 Collection Date: 11/27/07 09:36
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	5.58	mg/L		0.01		10	E200.8	12/08/07 00:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:20/eli-c
Thorium 232	0.010	mg/L		0.005		10	E200.8	12/08/07 00:20/eli-c
Uranium	5.84	mg/L		0.0003		1	E200.8	01/07/08 21:17/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Zinc	4.45	mg/L		0.01		1	E200.8	01/07/08 21:17/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/13/07 20:43/eli-c
Uranium	0.0013	mg/L		0.0003		1	E200.8	12/13/07 20:43/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	01/07/08 21:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/02/08 18:54/eli-c
Cadmium	0.027	mg/L		0.005		1	E200.8	01/07/08 21:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 03:55/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.02		5	A3500-Cr B	11/28/07 15:40/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	0.10	mg/L		0.01		1	E200.8	01/07/08 21:24/eli-c
Iron	5.93	mg/L		0.03		1	E200.7	01/02/08 18:54/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	12/29/07 03:55/eli-c
Manganese	246	mg/L		0.01		10	E200.7	01/02/08 15:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 03:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/29/07 03:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 03:55/eli-c
Thorium 232	0.010	mg/L		0.005		1	E200.8	12/29/07 03:55/eli-c
Uranium	5.83	mg/L		0.0003		1	E200.8	01/07/08 21:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Zinc	4.46	mg/L		0.01		1	E200.8	01/07/08 21:24/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.014	mg/L		0.001		1	A3114 B	12/30/07 10:28/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:36/eli-c
Selenium-VI	0.014	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-002
 Client Sample ID: DewBurdSub06

Report Date: 01/30/08
 Collection Date: 11/27/07 09:36
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	0.013	mg/L		0.001			1	A3114 B	12/30/07 11:03/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/29/07 10:22/eli-c
Selenium-VI	0.013	mg/L		0.001			1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	1.7	pCi/L		1.0			1	RMO-3008	12/10/07 12:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L					1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	2.0	pCi/L		0.2			1	E903.0	12/18/07 02:54/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	12/18/07 02:54/eli-c
Thorium 230	27.8	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
Thorium 230 precision (±)	9.7	pCi/L					1	E907.0	12/27/07 15:15/eli-c
- Th230 was analyzed on two separate aliquots with low tracer recoveries; this poor response is matrix related.									
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	1.4	pCi/L		1.0			1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/19/07 11:19/eli-c
Thorium 230	1	pCi/L		0.2			1	E907.0	12/12/07 16:10/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	6780	pCi/L		1.0			1	E900.0	12/30/07 04:12/eli-c
Gross Alpha precision (±)	47.0	pCi/L					1	E900.0	12/30/07 04:12/eli-c
Gross Beta	3200	pCi/L		2.0			1	E900.0	12/30/07 04:12/eli-c
Gross Beta precision (±)	42.3	pCi/L					1	E900.0	12/30/07 04:12/eli-c
Gross Gamma	264	pCi/L		20.0			1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	88.5	pCi/L					1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/05/08 14:23/sec
Polonium 210	3.1	pCi/L		1.0			1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	2.1	pCi/L					1	RMO-3008	01/05/08 14:23/sec
Radium 226	2.0	pCi/L		0.2			1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	01/05/08 14:23/sec
Thorium 230	28.8	pCi/L		0.2			1	E907.0	01/05/08 14:23/sec
Thorium 230 precision (±)	9.7	pCi/L					1	E907.0	01/05/08 14:23/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-002
 Client Sample ID: DewBurdSub06

Report Date: 01/30/08
 Collection Date: 11/27/07 09:36
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-0.00889	%					1	A1030 E 01/17/08 13:51/sec
Anions	119	meq/L					1	A1030 E 01/17/08 13:51/sec
Cations	119	meq/L					1	A1030 E 01/17/08 13:51/sec
Solids, Total Dissolved Calculated	7020	mg/L					1	A1030 E 01/17/08 13:51/sec
TDS Balance (0.80 - 1.20)	1.23	dec. %					1	A1030 E 01/17/08 13:51/sec

- TDS balance may have been adversely affected by hydratable solids (Sodium and Magnesium Sulfates).

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-003
 Client Sample ID: DewBurdSub11

Report Date: 01/30/08
 Collection Date: 11/27/07 10:08
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Calcium	14.8	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Chloride	2	mg/L		1		1	E300.0	11/29/07 02:11/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/29/07 02:11/jmh
Magnesium	4.2	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Nitrogen, Ammonia as N	2.1	mg/L	D	0.2		10	A4500-NH3 G	12/04/07 16:05/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	11/29/07 02:11/jmh
Potassium	11	mg/L		1		1	E200.7	12/19/07 17:03/eli-c
Silica	7.1	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Sodium	5.1	mg/L	D	0.8		1	E200.7	12/19/07 17:03/eli-c
Sulfate	25	mg/L		1		1	E300.0	11/29/07 02:11/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	188	umhos/cm		5.0		1	A2510 B	12/02/07 13:24/jmh
pH	6.41	s.u.		0.01		1	A4500-H B	12/02/07 13:46/jmh
Sodium Adsorption Ratio (SAR)	0.30	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	120	mg/L		5		1	D3977	12/04/07 15:18/jmh
Solids, Total Dissolved TDS @ 180 C	140	mg/L	H	5		1	A2540 C	01/23/08 15:08/ch
Solids, Total Suspended TSS @ 105 C	120	mg/L		5		1	A2540 D	12/03/07 15:30/jmh
- H-Original analysis was done within hold time. Data is from recheck analysis.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/19/07 17:03/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	12/19/07 17:03/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Manganese	1.52	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-003
 Client Sample ID: DewBurdSub11

Report Date: 01/30/08
 Collection Date: 11/27/07 10:08
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Uranium	0.0009	mg/L		0.0003		10	E200.8	12/08/07 00:26/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
METALS - SUSPENDED								
Thorium 232	0.001	mg/L		0.001		1	E200.8	12/13/07 20:49/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	12/13/07 20:49/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Arsenic	0.005	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/01/08 05:50/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/02/08 18:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 04:03/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/28/07 15:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
Iron	31.8	mg/L		0.03		1	E200.7	01/02/08 18:57/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Manganese	1.66	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/01/08 05:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8	12/29/07 04:03/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 10:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-003
 Client Sample ID: DewBurdSub11

Report Date: 01/30/08
 Collection Date: 11/27/07 10:08
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	12/30/07 11:06/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/29/07 10:24/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/18/07 03:55/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
- Th230 was analyzed on two separate aliquots with low tracer recoveries; this poor response is matrix related.									
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/19/07 11:19/eli-c
Thorium 230	3.0	pCi/L		0.2			1	E907.0	12/12/07 16:10/eli-c
Thorium 230 precision (±)	0.8	pCi/L					1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	2.0	pCi/L		1.0			1	E900.0	12/19/07 21:05/eli-c
Gross Alpha precision (±)	0.6	pCi/L					1	E900.0	12/19/07 21:05/eli-c
Gross Beta	9.1	pCi/L		2.0			1	E900.0	12/19/07 21:05/eli-c
Gross Beta precision (±)	1.5	pCi/L					1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	1100	pCi/L		20.0			1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	202	pCi/L					1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/05/08 14:23/sec
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	01/05/08 14:23/sec
Radium 226	ND	pCi/L		0.2			1	E903.0	01/05/08 14:23/sec
Thorium 230	3.0	pCi/L		0.2			1	E907.0	01/05/08 14:23/sec
Thorium 230 precision (±)	0.8	pCi/L					1	E907.0	01/05/08 14:23/sec
DATA QUALITY									
A/C Balance (± 5)	4.50	%					1	A1030 E	01/24/08 14:34/sec
Anions	1.72	meq/L					1	A1030 E	01/24/08 14:34/sec
Cations	1.88	meq/L					1	A1030 E	01/24/08 14:34/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-003
 Client Sample ID: DewBurdSub11

Report Date: 01/30/08
 Collection Date: 11/27/07 10:08
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Solids, Total Dissolved Calculated	97.0	mg/L					1	A1030 E	01/24/08 14:34/sec
TDS Balance (0.80 - 1.20)	1.48	dec. %					1	A1030 E	01/24/08 14:34/sec

- The TDS has been rechecked, the TDS balance may not be appropriate for low sample results. This batch is approved.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-004
 Client Sample ID: DewBurdBK01

Report Date: 01/30/08
 Collection Date: 11/27/07 21:45
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MICROBIOLOGICAL							
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2	2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5	1	A2320 B	12/11/07 18:07/sn
Carbonate as CO3	ND	mg/L		5	1	A2320 B	12/11/07 18:07/sn
Bicarbonate as HCO3	ND	mg/L		5	1	A2320 B	12/11/07 18:07/sn
Calcium	ND	mg/L		0.5	1	E200.7	12/19/07 17:06/eli-c
Chloride	ND	mg/L		1	1	E300.0	11/29/07 02:26/jmh
Fluoride	ND	mg/L		0.1	1	E300.0	11/29/07 02:26/jmh
Magnesium	ND	mg/L		0.5	1	E200.7	12/19/07 17:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	12/04/07 16:06/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	11/29/07 02:26/jmh
Potassium	ND	mg/L		1	1	E200.7	12/19/07 17:06/eli-c
Silica	ND	mg/L		0.5	1	E200.7	12/19/07 17:06/eli-c
Sodium	ND	mg/L	D	0.8	1	E200.7	12/19/07 17:06/eli-c
Sulfate	ND	mg/L		1	1	E300.0	11/29/07 02:26/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	ND	umhos/cm		5.0	1	A2510 B	12/02/07 13:27/jmh
pH	5.52	s.u.		0.01	1	A4500-H B	12/02/07 13:48/jmh
Sodium Adsorption Ratio (SAR)	0.16	meq/L		0.10	1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5	1	D3977	12/04/07 15:18/jmh
Solids, Total Dissolved TDS @ 180 C	6	mg/L	H	5	1	A2540 C	01/31/08 14:59/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5	1	A2540 D	12/03/07 12:20/jmh
Initial analysis within hold. Analysis rechecked and value reported.							
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	10	E200.8	12/08/07 00:33/eli-c
Arsenic	ND	mg/L		0.001	10	E200.8	12/08/07 00:33/eli-c
Barium	ND	mg/L		0.1	10	E200.8	12/08/07 00:33/eli-c
Boron	ND	mg/L		0.1	1	E200.7	12/19/07 17:06/eli-c
Cadmium	ND	mg/L		0.005	10	E200.8	12/08/07 00:33/eli-c
Chromium	ND	mg/L		0.01	10	E200.8	12/08/07 00:33/eli-c
Copper	ND	mg/L		0.01	10	E200.8	12/08/07 00:33/eli-c
Iron	0.08	mg/L		0.03	1	E200.7	12/19/07 17:06/eli-c
Lead	ND	mg/L		0.001	10	E200.8	12/08/07 00:33/eli-c
Manganese	ND	mg/L		0.01	10	E200.8	12/08/07 00:33/eli-c
Mercury	ND	mg/L		0.001	10	E200.8	12/08/07 00:33/eli-c
Molybdenum	ND	mg/L		0.1	10	E200.8	12/08/07 00:33/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110302-004
 Client Sample ID: DewBurdBK01

Report Date: 01/30/08
 Collection Date: 11/27/07 21:45
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		10 E200.8	12/08/07 00:33/eli-c
Silver	ND	mg/L		0.005		10 E200.8	12/08/07 00:33/eli-c
Thorium 232	ND	mg/L		0.005		10 E200.8	12/08/07 00:33/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	12/08/07 00:33/eli-c
Vanadium	ND	mg/L		0.1		10 E200.8	12/08/07 00:33/eli-c
Zinc	0.02	mg/L		0.01		10 E200.8	12/08/07 00:33/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1 E200.8	12/13/07 20:56/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/13/07 20:56/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1 E200.8	12/29/07 04:33/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	12/29/07 04:33/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/29/07 04:33/eli-c
Boron	ND	mg/L		0.1		1 E200.7	01/02/08 19:00/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/29/07 04:33/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/29/07 04:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1 A3500-Cr B	11/28/07 15:08/sn
Chromium, Trivalent	ND	mg/L		0.01		1 Calculation	01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1 E200.8	12/29/07 04:33/eli-c
Iron	0.06	mg/L		0.03		1 E200.7	01/02/08 19:00/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/29/07 04:33/eli-c
Manganese	ND	mg/L		0.01		1 E200.8	12/29/07 04:33/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	12/29/07 04:33/eli-c
Molybdenum	ND	mg/L		0.1		1 E200.8	12/29/07 04:33/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/29/07 04:33/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/29/07 04:33/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	12/29/07 04:33/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/29/07 04:33/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/29/07 04:33/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/29/07 04:33/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1 A3114 B	12/30/07 10:32/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/29/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-004
Client Sample ID: DewBurdBK01

Report Date: 01/30/08
Collection Date: 11/27/07 21:45
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/18/07 04:55/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/17/07 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 12:26/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	12/19/07 21:05/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
DATA QUALITY								
Anions	ND	meq/L				1	A1030 E	01/16/08 18:50/sec
Cations	0.00526	meq/L				1	A1030 E	01/16/08 18:50/sec

- The Ion and TDS balances are not appropriate for near blank results.

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071211A-ALK-SEL-W		
Sample ID: MBLK1_071211A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
						Run: PH_COND1-R_071211A			12/11/07 17:56
Sample ID: LCS1_071211A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110			12/11/07 17:57
						Run: PH_COND1-R_071211A			12/11/07 18:30
Sample ID: R07110303-008AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 16.0	mg/L	5.0	11	80	120			S
	- S=Surrogate recovery outside QC advisory limits due to sample matrix interference.								
Sample ID: R07110303-008AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 18.0	mg/L	5.0	13	80	120	12	10	SR
	- S=Surrogate recovery outside QC advisory limits due to sample matrix interference.								
Method: A2510 B							Batch: 071202_1_COND-PROBE-W		
Sample ID: LCS1-1_071202 Conductivity @ 25 C	Laboratory Control Sample 152	umhos/cm	5.0	101	90	110			12/02/07 13:11
						Run: PH_COND2-R_071202A			12/02/07 13:12
Sample ID: LCS2-1_071202 Conductivity @ 25 C	Laboratory Control Sample 5010	umhos/cm	5.0	100	90	110			12/02/07 13:12
						Run: PH_COND2-R_071202A			12/02/07 13:13
Sample ID: LCS_COND-1_071202 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			12/02/07 13:13
						Run: PH_COND2-R_071202A			12/02/07 13:13
Sample ID: MBLK-1_071202 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						12/02/07 13:13
						Run: PH_COND2-R_071202A			12/02/07 13:25
Sample ID: R07110302-003ADUP Conductivity @ 25 C	Sample Duplicate 188	umhos/cm	5.0				0.0	10	12/02/07 13:25
						Run: PH_COND2-R_071202A			12/02/07 13:25

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 071203A-SLDS-TDS-W		
Sample ID: MBLK1_071203A	Method Blank					Run: BAL-4-R_071203A			12/03/07 13:11
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: LCS1_071203A	Laboratory Control Sample					Run: BAL-4-R_071203A			12/03/07 13:12
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	106	90	110			
Sample ID: R07110299-005AMS	Sample Matrix Spike					Run: BAL-4-R_071203A			12/03/07 13:28
Solids, Total Dissolved TDS @ 180 C	750	mg/L	5.0	97	80	120			
Sample ID: R07110299-005AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_071203A			12/03/07 13:29
Solids, Total Dissolved TDS @ 180 C	760	mg/L	5.0	101	80	120	1.1	10	
Sample ID: R07110303-002AMS	Sample Matrix Spike					Run: BAL-4-R_071203A			12/03/07 13:42
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	5.0	88	80	120			
Sample ID: R07110303-002AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_071203A			12/03/07 13:43
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	5.0	102	80	120	0.9	10	
Method: A2540 C							Batch: 080122A-SLDS-TDS-W		
Sample ID: MBLK1_080122A	Method Blank					Run: BAL-4-R_080122B			01/22/08 13:52
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080122A	Laboratory Control Sample					Run: BAL-4-R_080122B			01/22/08 13:54
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	106	90	110			
Sample ID: R08010166-010AMS	Sample Matrix Spike					Run: BAL-4-R_080122B			01/22/08 14:14
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	108	80	120			
Sample ID: R08010166-010AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080122B			01/22/08 14:15
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120	0.9	10	
Method: A2540 D							Batch: 071203A-SLDS-TSS-W		
Sample ID: MBLK1_071203A	Method Blank					Run: BAL-4-R_071203B			12/03/07 12:00
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071203A	Laboratory Control Sample					Run: BAL-4-R_071203B			12/03/07 12:02
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: R07110302-002ADUP	Sample Duplicate					Run: BAL-4-R_071203B			12/03/07 12:18
Solids, Total Suspended TSS @ 105 C	8.0	mg/L	5.0				46	20	R

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-071230		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0004						
						Run: SUB-C94924			12/30/07 10:22
Sample ID: R07120148-005G Selenium	Sample Matrix Spike 0.044	mg/L	0.0010	87	85	115			12/30/07 10:45
						Run: SUB-C94924			12/30/07 10:47
Sample ID: R07120148-005G Selenium	Sample Matrix Spike Duplicate 0.046	mg/L	0.0010	93	85	115	5.6	10	12/30/07 10:49
						Run: SUB-C94924			12/30/07 10:49
Sample ID: 288-12-1 Selenium	Laboratory Control Sample 0.045	mg/L	0.0010	90	90	110			12/30/07 11:20
						Run: SUB-C94924			12/30/07 11:20
Sample ID: R07120148-005H Selenium	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			12/30/07 11:23
						Run: SUB-C94924			12/30/07 11:23
Sample ID: R07120148-005H Selenium	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	1.8	10	
						Run: SUB-C94924			
Method: A3114 B							Batch: C_SEIV3114-071229		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0002						
						Run: SUB-C94906			12/29/07 09:32
Sample ID: R07120148-005G Selenium-IV	Sample Matrix Spike 0.045	mg/L	0.0010	90	85	115			12/29/07 09:54
						Run: SUB-C94906			12/29/07 09:56
Sample ID: R07120148-005G Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	93	85	115	3.2	10	12/29/07 10:03
						Run: SUB-C94906			12/29/07 10:03
Sample ID: 288-7-1 Selenium-IV	Laboratory Control Sample 0.045	mg/L	0.0010	90	90	110			12/29/07 10:50
						Run: SUB-C94906			12/29/07 10:50
Sample ID: R07120148-005H Selenium-IV	Sample Matrix Spike 0.044	mg/L	0.0010	88	85	115			
						Run: SUB-C94906			
	- Matrix spike recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.								
Sample ID: R07120148-005H Selenium-IV	Sample Matrix Spike Duplicate 0.042	mg/L	0.0010	83	85	115	5.1	10	S
						Run: SUB-C94906			
	- Matrix spike duplicate recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.								

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 071128A-CR-HEX-W		
Sample ID: MBLK1_071128A Chromium, Hexavalent	Method Blank ND	mg/L	0.005			Run: SPEC1_071128A			11/28/07 15:06
Sample ID: LCS1_071128A Chromium, Hexavalent	Laboratory Control Sample 0.19	mg/L	0.0050	96	80	120			11/28/07 15:06
Sample ID: R07110302-001D Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	96	80	120			11/28/07 15:07
Sample ID: R07110302-002D Chromium, Hexavalent	Sample Matrix Spike 0.81	mg/L	0.025	81	80	120			11/28/07 15:40
Sample ID: R07110302-003D Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	93	80	120			11/28/07 15:08
Sample ID: R07110302-004D Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	100	80	120			11/28/07 15:08
Method: A4500-H B							Batch: 071202_1_PH-W		
Sample ID: LCS_pH-1_071202 pH	Laboratory Control Sample 6.86	s.u.	0.010	100	98.55	101.45			12/02/07 13:42
Sample ID: R07110302-003ADUP pH	Sample Duplicate 6.47	s.u.	0.010				0.9	1.25	12/02/07 13:46
Method: A4500-NH3 G							Batch: A2007-12-04_2_NH3_01		
Sample ID: MBLK-1 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02			Run: TECHAA2-R_071104A			12/04/07 15:47
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.28	mg/L	0.10	112	90	110			12/04/07 15:50 S
Sample ID: LFB-5 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	106	90	110			12/04/07 15:51
Sample ID: R07110302-001BDUP Nitrogen, Ammonia as N	Sample Duplicate ND	mg/L	0.10			Run: TECHAA2-R_071104A	0.0	10	12/04/07 16:02
Sample ID: R07110302-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 5.6	mg/L	0.21	89	80	120			12/04/07 16:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D								Batch: 071128-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank					Run: MEMFILT_071128A		11/28/07 10:00	
Bacteria, Fecal Coliform	ND	CFU/100ml				1			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R94543		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C94543			12/19/07 11:01		
Silica	2.0	mg/L	0.10	99	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	101	85	125			
Manganese	2.1	mg/L	0.010	104	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C94543			12/19/07 11:05		
Calcium	25	mg/L	0.50	100	85	125			
Magnesium	24	mg/L	0.50	94	85	125			
Potassium	26	mg/L	0.50	104	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C94543			12/19/07 11:11		
Silica	ND	mg/L	0.10		0	0			
Boron	0.0098	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Iron	ND	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Manganese	ND	mg/L	0.010		0	0			
Potassium	0.032	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Sample ID: C07120180-001EMS	Sample Matrix Spike			Run: SUB-C94543			12/19/07 15:11		
Boron	9.14	mg/L	0.10	91	70	130			
Iron	9.31	mg/L	0.046	93	70	130			
Manganese	9.72	mg/L	0.010	96	70	130			
Calcium	543	mg/L	1.0	85	70	130			
Magnesium	486	mg/L	0.50	85	70	130			
Potassium	1130	mg/L	0.50	94	70	130			
Silica	17.7	mg/L	0.20	87	70	130			
Sodium	427	mg/L	7.6	84	70	130			
Sample ID: C07120180-001EMSD	Sample Matrix Spike Duplicate			Run: SUB-C94543			12/19/07 15:14		
Boron	9.27	mg/L	0.10	93	70	130	1.4	20	
Iron	9.40	mg/L	0.046	93	70	130	1.0	20	
Manganese	9.74	mg/L	0.010	97	70	130	0.2	20	
Calcium	539	mg/L	1.0	85	70	130	0.7	20	
Magnesium	482	mg/L	0.50	84	70	130	0.8	20	
Potassium	1110	mg/L	0.50	92	70	130	2.3	20	
Silica	17.8	mg/L	0.20	88	70	130	0.8	20	
Sodium	420	mg/L	7.6	82	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17091		
Sample ID: MB-17091	Method Blank		Run: SUB-C93999			12/10/07 20:59			
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Mercury	2E-05	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Silver	0.0009	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-17091	Laboratory Control Sample		Run: SUB-C93999			12/10/07 21:05			
Arsenic	0.018	mg/L	0.0010	90	80	120			
Barium	0.018	mg/L	0.10	92	80	120			
Cadmium	0.018	mg/L	0.010	91	80	120			
Chromium	0.019	mg/L	0.050	94	80	120			
Copper	0.018	mg/L	0.010	90	80	120			
Lead	0.018	mg/L	0.050	92	80	120			
Manganese	0.019	mg/L	0.010	93	80	120			
Molybdenum	0.019	mg/L	0.10	93	80	120			
Nickel	0.018	mg/L	0.050	91	80	120			
Silver	0.019	mg/L	0.010	88	80	120			
Thorium 232	0.019	mg/L	0.0010	93	80	120			
Uranium	0.019	mg/L	0.00030	95	80	120			
Vanadium	0.018	mg/L	0.10	92	80	120			
Zinc	0.020	mg/L	0.010	90	80	120			
Sample ID: LCS-17091	Laboratory Control Sample		Run: SUB-C93999			12/10/07 21:12			
Arsenic	0.51	mg/L	0.0010	101	80	120			
Barium	0.50	mg/L	0.10	101	80	120			
Cadmium	0.50	mg/L	0.010	100	80	120			
Chromium	0.51	mg/L	0.050	103	80	120			
Copper	0.49	mg/L	0.010	97	80	120			
Lead	0.50	mg/L	0.050	100	80	120			
Manganese	0.51	mg/L	0.010	103	80	120			
Molybdenum	0.51	mg/L	0.10	101	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17091		
Sample ID: LCS-17091	Laboratory Control Sample			Run: SUB-C93999			12/10/07 21:12		
Nickel	0.49	mg/L	0.050	99	80	120			
Silver	0.24	mg/L	0.010	117	80	120			
Uranium	0.52	mg/L	0.00032	104	80	120			
Vanadium	0.51	mg/L	0.10	102	80	120			
Zinc	0.51	mg/L	0.010	102	80	120			
Sample ID: R07110302-004F	Post Digestion Spike			Run: SUB-C94942			12/29/07 04:40		
Aluminum	0.0476	mg/L	0.10	95	70	130			
Arsenic	0.0497	mg/L	0.0010	99	70	130			
Barium	0.0493	mg/L	0.10	99	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Chromium	0.0507	mg/L	0.050	101	70	130			
Copper	0.0498	mg/L	0.010	100	70	130			
Lead	0.0492	mg/L	0.050	98	70	130			
Manganese	0.0510	mg/L	0.010	101	70	130			
Mercury	0.00518	mg/L	0.0010	104	70	130			
Molybdenum	0.0485	mg/L	0.10	97	70	130			
Nickel	0.0478	mg/L	0.050	96	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Thorium 232	0.0461	mg/L	0.0010	92	70	130			
Uranium	0.0473	mg/L	0.00030	95	70	130			
Vanadium	0.0500	mg/L	0.10	100	70	130			
Zinc	0.0532	mg/L	0.010	106	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110302-004F	Post Digestion Spike Duplicate			Run: SUB-C94942			12/29/07 04:48		
Aluminum	0.0463	mg/L	0.10	93	70	130	0.0	20	
Arsenic	0.0500	mg/L	0.0010	100	70	130	0.6	20	
Barium	0.0468	mg/L	0.10	94	70	130	0.0	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	0.7	20	
Chromium	0.0489	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0481	mg/L	0.010	96	70	130	3.3	20	
Lead	0.0487	mg/L	0.050	97	70	130	0.0	20	
Manganese	0.0494	mg/L	0.010	98	70	130	3.3	20	
Mercury	0.00482	mg/L	0.0010	96	70	130	7.1	20	
Molybdenum	0.0485	mg/L	0.10	97	70	130	0.0	20	
Nickel	0.0469	mg/L	0.050	94	70	130	0.0	20	
Silver	0.0140	mg/L	0.010	70	70	130	3.8	20	
Thorium 232	0.0461	mg/L	0.0010	92	70	130	0.0	20	
Uranium	0.0463	mg/L	0.00030	93	70	130	2.2	20	
Vanadium	0.0493	mg/L	0.10	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									
Batch: C_17091									
Sample ID: R07110302-004F	Post Digestion Spike Duplicate			Run: SUB-C94942			12/29/07 04:48		
Zinc	0.0520	mg/L	0.010	104	70	130	2.4	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110302-003F	Post Digestion Spike			Run: SUB-C94975			01/01/08 05:58		
Aluminum	0.105	mg/L	0.10	101	70	130			
Arsenic	0.0487	mg/L	0.0010	96	70	130			
Barium	0.0522	mg/L	0.10	100	70	130			
Cadmium	0.0485	mg/L	0.010	97	70	130			
Chromium	0.0483	mg/L	0.050	97	70	130			
Copper	0.0481	mg/L	0.010	96	70	130			
Lead	0.0496	mg/L	0.050	99	70	130			
Manganese	0.203	mg/L	0.010	87	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Molybdenum	0.0489	mg/L	0.10	98	70	130			
Nickel	0.0476	mg/L	0.050	94	70	130			
Silver	0.0170	mg/L	0.010	85	70	130			
Thorium 232	0.0403	mg/L	0.0010	81	70	130			
Uranium	0.0378	mg/L	0.00030	75	70	130			
Vanadium	0.0483	mg/L	0.10	96	70	130			
Zinc	0.0513	mg/L	0.010	96	70	130			
Sample ID: R07110302-003F	Post Digestion Spike Duplicate			Run: SUB-C94975			01/01/08 06:05		
Aluminum	0.0962	mg/L	0.10	83	70	130	0.0	20	
Arsenic	0.0495	mg/L	0.0010	98	70	130	1.8	20	
Barium	0.0504	mg/L	0.10	97	70	130	0.0	20	
Cadmium	0.0492	mg/L	0.010	98	70	130	1.4	20	
Chromium	0.0486	mg/L	0.050	97	70	130	0.0	20	
Copper	0.0483	mg/L	0.010	96	70	130	0.5	20	
Lead	0.0492	mg/L	0.050	98	70	130	0.0	20	
Manganese	0.205	mg/L	0.010	90	70	130	0.9	20	
Mercury	0.00497	mg/L	0.0010	99	70	130	3.0	20	
Molybdenum	0.0496	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0489	mg/L	0.050	96	70	130	0.0	20	
Silver	0.0187	mg/L	0.010	93	70	130	9.5	20	
Thorium 232	0.0489	mg/L	0.0010	98	70	130	19	20	
Uranium	0.0492	mg/L	0.00030	98	70	130	26	20	R
Vanadium	0.0493	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0520	mg/L	0.010	97	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17122
Sample ID: MB-17122	Method Blank								12/13/07 16:21
Uranium	5E-05	mg/L							
Sample ID: LCS1-17122	Laboratory Control Sample								12/13/07 20:16
Uranium	0.0527	mg/L	0.00030	100	80	120			
Sample ID: R07110302-004K	Post Digestion Spike								12/13/07 21:16
Uranium	0.0511	mg/L	0.00030	102	70	130			
Sample ID: R07110302-004K	Post Digestion Spike Duplicate								12/13/07 21:23
Uranium	0.0518	mg/L	0.00030	103	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93947		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93947			12/07/07 11:38		
Aluminum	0.0492	mg/L	0.0010	98	85	115			
Arsenic	0.0514	mg/L	0.0010	103	85	115			
Barium	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0497	mg/L	0.0010	99	85	115			
Chromium	0.0508	mg/L	0.0010	101	85	115			
Copper	0.0519	mg/L	0.0010	104	85	115			
Lead	0.0506	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	100	85	115			
Mercury	0.00520	mg/L	0.0010	104	85	115			
Molybdenum	0.0495	mg/L	0.0010	99	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Thorium 232	0.0501	mg/L	0.0010	100	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Zinc	0.0537	mg/L	0.0010	107	85	115			
Sample ID: LRB	Method Blank			Run: SUB-C93947			12/07/07 13:13		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	6E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0004	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	4E-05	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: R07110303-004C	Post Digestion Spike			Run: SUB-C93947			12/07/07 17:52		
Aluminum	0.499	mg/L	0.10	100	70	130			
Arsenic	0.517	mg/L	0.0010	103	70	130			
Barium	0.540	mg/L	0.10	103	70	130			
Cadmium	0.506	mg/L	0.010	101	70	130			
Chromium	0.496	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93947		
Sample ID: R07110303-004C	Post Digestion Spike			Run: SUB-C93947			12/07/07 17:52		
Copper	0.496	mg/L	0.010	98	70	130			
Lead	0.513	mg/L	0.050	103	70	130			
Manganese	2.98	mg/L	0.010		70	130			A
Mercury	0.0527	mg/L	0.0010	105	70	130			
Molybdenum	0.545	mg/L	0.10	109	70	130			
Nickel	0.502	mg/L	0.050	97	70	130			
Silver	0.171	mg/L	0.010	85	70	130			
Thorium 232	0.532	mg/L	0.0010	106	70	130			
Uranium	0.569	mg/L	0.00030	105	70	130			
Vanadium	0.510	mg/L	0.10	102	70	130			
Zinc	0.498	mg/L	0.010	96	70	130			
Sample ID: R07110303-004C	Post Digestion Spike Duplicate			Run: SUB-C93947			12/07/07 17:59		
Aluminum	0.488	mg/L	0.10	98	70	130	2.3	20	
Arsenic	0.509	mg/L	0.0010	102	70	130	1.6	20	
Barium	0.526	mg/L	0.10	100	70	130	2.6	20	
Cadmium	0.496	mg/L	0.010	99	70	130	2.1	20	
Chromium	0.491	mg/L	0.050	97	70	130	0.9	20	
Copper	0.487	mg/L	0.010	96	70	130	1.8	20	
Lead	0.511	mg/L	0.050	102	70	130	0.2	20	
Manganese	2.99	mg/L	0.010		70	130	0.5	20	A
Mercury	0.0537	mg/L	0.0010	107	70	130	1.9	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.4	20	
Nickel	0.489	mg/L	0.050	95	70	130	2.7	20	
Silver	0.174	mg/L	0.010	87	70	130	1.9	20	
Thorium 232	0.530	mg/L	0.0010	106	70	130	0.4	20	
Uranium	0.567	mg/L	0.00030	105	70	130	0.4	20	
Vanadium	0.507	mg/L	0.10	101	70	130	0.6	20	
Zinc	0.494	mg/L	0.010	95	70	130	0.8	20	
Sample ID: C07120198-001BMS4	Post Digestion Spike			Run: SUB-C93947			12/08/07 00:47		
Aluminum	0.045	mg/L	0.10	90	70	130			
Arsenic	0.067	mg/L	0.0010	97	70	130			
Barium	0.16	mg/L	0.10	90	70	130			
Cadmium	0.048	mg/L	0.010	96	70	130			
Chromium	0.047	mg/L	0.050	91	70	130			
Copper	0.048	mg/L	0.010	94	70	130			
Lead	0.050	mg/L	0.050	99	70	130			
Manganese	0.051	mg/L	0.010	92	70	130			
Mercury	0.0049	mg/L	0.0010	98	70	130			
Molybdenum	0.052	mg/L	0.10	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93947		
Sample ID: C07120198-001BMS4	Post Digestion Spike			Run: SUB-C93947			12/08/07 00:47		
Nickel	0.048	mg/L	0.050	93	70	130			
Silver	0.018	mg/L	0.010	89	70	130			
Thorium 232	0.051	mg/L	0.0010	101	70	130			
Uranium	0.051	mg/L	0.00030	100	70	130			
Vanadium	0.049	mg/L	0.10	95	70	130			
Zinc	0.065	mg/L	0.010	97	70	130			
Sample ID: C07120198-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C93947			12/08/07 00:54		
Aluminum	0.045	mg/L	0.10	91	70	130	0.0	20	
Arsenic	0.068	mg/L	0.0010	98	70	130	1.3	20	
Barium	0.16	mg/L	0.10	90	70	130	0.1	20	
Cadmium	0.048	mg/L	0.010	96	70	130	0.1	20	
Chromium	0.047	mg/L	0.050	92	70	130	0.0	20	
Copper	0.048	mg/L	0.010	94	70	130	0.0	20	
Lead	0.050	mg/L	0.050	99	70	130	0.0	20	
Manganese	0.051	mg/L	0.010	93	70	130	1.6	20	
Mercury	0.0050	mg/L	0.0010	100	70	130	1.6	20	
Molybdenum	0.052	mg/L	0.10	98	70	130	0.0	20	
Nickel	0.049	mg/L	0.050	96	70	130	0.0	20	
Silver	0.019	mg/L	0.010	93	70	130	3.8	20	
Thorium 232	0.051	mg/L	0.0010	102	70	130	1.4	20	
Uranium	0.052	mg/L	0.00030	101	70	130	1.0	20	
Vanadium	0.049	mg/L	0.10	95	70	130	0.0	20	
Zinc	0.064	mg/L	0.010	95	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R95304		
Sample ID: LRB	Method Blank		Run: SUB-C95304			01/07/08 21:02			
Arsenic	ND	mg/L	0.0002						
Cadmium	0.0002	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Uranium	0.0001	mg/L	4E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C95304			01/07/08 21:09			
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Cadmium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0505	mg/L	0.00030	101	85	115			
Zinc	0.0548	mg/L	0.0021	110	85	115			
Sample ID: R07110302-002F	Post Digestion Spike		Run: SUB-C95304			01/07/08 21:32			
Arsenic	0.0514	mg/L	0.0010	96	70	130			
Cadmium	0.0777	mg/L	0.010	102	70	130			
Copper	0.155	mg/L	0.010	110	70	130			
Uranium	6.12	mg/L	0.00030		70	130			A
Zinc	4.51	mg/L	0.010		70	130			A
Sample ID: R07110302-002F	Post Digestion Spike Duplicate		Run: SUB-C95304			01/07/08 21:40			
Arsenic	0.0513	mg/L	0.0010	96	70	130	0.2	20	
Cadmium	0.0751	mg/L	0.010	97	70	130	3.4	20	
Copper	0.154	mg/L	0.010	109	70	130	0.1	20	
Uranium	6.01	mg/L	0.00030		70	130	1.7	20	A
Zinc	4.55	mg/L	0.010		70	130	0.9	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									
Batch: R32405									
Sample ID: LFB0711284127-3	Laboratory Fortified Blank			Run: DIONEX_071128A			11/28/07 21:08		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.91	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0711284127-4	Laboratory Fortified Blank			Run: DIONEX_071128A			11/28/07 21:24		
Chloride	4.86	mg/L	0.50	97	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: R07110265-001BMS	Sample Matrix Spike			Run: DIONEX_071128A			11/28/07 23:00		
Chloride	13.4	mg/L	0.50	71	80	120			S
Fluoride	2.38	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	80	120			
Sulfate	121	mg/L	1.0		80	120			A
Sample ID: R07110265-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071128A			11/28/07 23:15		
Chloride	13.3	mg/L	0.50	70	80	120	0.3	10	S
Fluoride	2.26	mg/L	0.10	85	80	120	5.2	10	
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	80	120	0.0	10	
Sulfate	121	mg/L	1.0		80	120	0.5	10	A
Sample ID: R07110302-002AMS	Sample Matrix Spike			Run: DIONEX_071128A			11/29/07 01:07		
Chloride	266	mg/L	2.0	98	80	120			
Fluoride	123	mg/L	3.2	109	80	120			
Nitrogen, Nitrate as N	128	mg/L	0.84	102	80	120			
Sulfate	6060	mg/L	36		80	120			A
Sample ID: R07110302-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071128A			11/29/07 01:23		
Chloride	248	mg/L	2.0	90	80	120	7.0	10	
Fluoride	115	mg/L	3.2	102	80	120	6.2	10	
Nitrogen, Nitrate as N	123	mg/L	0.84	98	80	120	4.0	10	
Sulfate	6160	mg/L	36		80	120	1.6	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32437		
Sample ID: LFB0711291936-3 Chloride	Laboratory Fortified Blank 4.94	mg/L	0.50	99	90	110			11/29/07 20:57
Sample ID: LFB0711291936-4 Chloride	Laboratory Fortified Blank 4.87	mg/L	0.50	97	90	110			11/29/07 21:13
Sample ID: R07110265-001BMS Chloride	Sample Matrix Spike 32.5	mg/L	0.50	89	80	120			11/30/07 00:56
Sample ID: R07110265-001BMSD Chloride	Sample Matrix Spike Duplicate 32.9	mg/L	0.50	90	80	120	1.2	10	11/30/07 01:12
Method: E900.0							Batch: C_GrAB-0369		
Sample ID: UNAT-GrAB-0369 Gross Alpha	Laboratory Control Sample 300	pCi/L	1.0	104	70	130			12/17/07 22:28
Sample ID: C07111231-001HMS Gross Beta	Sample Matrix Spike 280	pCi/L	2.0	85	70	130			12/17/07 22:28
Sample ID: C07111231-001HMSD Gross Beta	Sample Matrix Spike Duplicate 280	pCi/L	2.0	85	70	130	0.2	15.9	12/17/07 22:28
Sample ID: RB-GrAB-0369 Gross Alpha	Method Blank ND	pCi/L	1						12/17/07 22:28
Gross Beta	ND	pCi/L	2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0374		
Sample ID: RB-GrAB-0374	Method Blank					Run: SUB-C94955			12/29/07 11:04
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0374	Laboratory Control Sample					Run: SUB-C94955			12/29/07 11:04
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: Cs137-GrAB-0374	Laboratory Control Sample					Run: SUB-C94955			12/29/07 11:04
Gross Beta	100	pCi/L	2.0	100	70	130			
Sample ID: C07120963-005CMS	Sample Matrix Spike					Run: SUB-C94955			12/29/07 11:04
Gross Alpha	520	pCi/L	1.0	106	70	130			
Sample ID: C07120963-005CMSD	Sample Matrix Spike Duplicate					Run: SUB-C94955			12/29/07 11:04
Gross Alpha	480	pCi/L	1.0	98	70	130	7.7	12.5	
Sample ID: C07120963-005CMS	Sample Matrix Spike					Run: SUB-C94955			12/29/07 11:04
Gross Beta	180	pCi/L	2.0	88	70	130			
Sample ID: C07120963-005CMSD	Sample Matrix Spike Duplicate					Run: SUB-C94955			12/29/07 11:04
Gross Beta	170	pCi/L	2.0	87	70	130	0.9	15.8	
Sample ID: R07110302-002I	Sample Duplicate					Run: SUB-C94955			12/30/07 04:12
Gross Alpha	6610	pCi/L	1.0				2.6	11.4	
Gross Beta	3100	pCi/L	2.0				3.2	12.7	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R94634		
Sample ID: LCS-R94634	Laboratory Control Sample				Run: SUB-C94634		12/05/07 10:50		
Cesium 137	1180	pCi/L	20	84	70	130			
Potassium 40	7170	pCi/L	20	107	70	130			
Sample ID: MB-R94634	Method Blank				Run: SUB-C94634		12/05/07 10:50		
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Method: E903.0							Batch: C_17122		
Sample ID: C07111001-001AMS	Sample Matrix Spike				Run: SUB-C94513		12/19/07 11:19		
Radium 226	0.00013	uCi/kg	2.0E-07	79	70	130			
Sample ID: C07111001-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94513		12/19/07 11:19		
Radium 226	0.00013	uCi/kg	2.0E-07	90	70	130	5.5	23.3	
Sample ID: MB-17122	Method Blank				Run: SUB-C94513		12/19/07 12:26		
Radium 226	ND	pCi/L	0.004						
Sample ID: LCS-17122	Laboratory Control Sample				Run: SUB-C94513		12/19/07 12:26		
Radium 226	13	pCi/L	0.20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2485		
Sample ID: C07120310-001BMS Radium 226	Sample Matrix Spike 19	pCi/L	0.20	92	70	130			Run: SUB-C94471 12/18/07 06:56
Sample ID: C07120320-001DDUP Radium 226	Sample Duplicate ND	pCi/L	0.20				0.0	1792.8	Run: SUB-C94471 12/18/07 08:57
Sample ID: MB-RA226-2485 Radium 226	Method Blank ND	pCi/L	0.2						Run: SUB-C94471 12/18/07 12:58
Sample ID: LCS-RA226-2485 Radium 226	Laboratory Control Sample 11	pCi/L	0.20	86	70	130			Run: SUB-C94471 12/18/07 13:59
Method: E907.0							Batch: C_17122		
Sample ID: C07120387-002AMS Thorium 230	Sample Matrix Spike 51.5	pCi/Filter	0.20	92	70	130			Run: SUB-C94647 12/12/07 16:10
Sample ID: C07120387-002AMSD Thorium 230	Sample Matrix Spike Duplicate 55.3	pCi/Filter	0.20	100	70	130	7.1	30	Run: SUB-C94647 12/12/07 16:10
Sample ID: LCS-17122 Thorium 230	Laboratory Control Sample 52.8	pCi/Filter	0.20	94	70	130			Run: SUB-C94647 12/12/07 16:10
Sample ID: MB-17122 Thorium 230	Method Blank ND	pCi/Filter	0.004						Run: SUB-C94647 12/12/07 16:10
Method: E907.0							Batch: C_R94649		
Sample ID: C07120364-005DMS Thorium 230	Sample Matrix Spike 19.4	pCi/L	0.20	99	70	130			Run: SUB-C94649 12/17/07 16:15
Sample ID: C07120364-005DMSD Thorium 230	Sample Matrix Spike Duplicate 18.7	pCi/L	0.20	95	70	130	3.7	30	Run: SUB-C94649 12/17/07 16:15
Sample ID: MB-R94649 Thorium 230	Method Blank ND	pCi/L	0.2						Run: SUB-C94649 12/17/07 16:15
Sample ID: LCS-R94649 Thorium 230	Laboratory Control Sample 5.90	pCi/L	0.20	100	70	130			Run: SUB-C94649 12/17/07 16:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R95122		
Sample ID: LCS-R95122	Laboratory Control Sample				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M							Batch: C_17122		
Sample ID: R07110302-001K	Sample Matrix Spike				Run: SUB-C94571		12/13/07 08:00		
Lead 210	790	pCi/L	1.0	99	70	130			
Sample ID: R07110302-001K	Sample Matrix Spike Duplicate				Run: SUB-C94571		12/13/07 08:00		
Lead 210	780	pCi/L	1.0	98	70	130	1.5	30	
Sample ID: MB-R94571	Method Blank				Run: SUB-C94571		12/13/07 08:00		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94571	Laboratory Control Sample				Run: SUB-C94571		12/13/07 08:00		
Lead 210	86	pCi/L	1.0	107	70	130			
Method: E909.0M							Batch: C_R94265		
Sample ID: C07111231-004HMS	Sample Matrix Spike				Run: SUB-C94265		12/10/07 07:15		
Lead 210	470	pCi/L	1.0	116	70	130			
Sample ID: C07111231-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C94265		12/10/07 07:15		
Lead 210	420	pCi/L	1.0	104	70	130	11	30	
Sample ID: MB-R94265	Method Blank				Run: SUB-C94265		12/10/07 07:15		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94265	Laboratory Control Sample				Run: SUB-C94265		12/10/07 07:15		
Lead 210	88	pCi/L	1.0	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/30/08
 Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_17122		
Sample ID: R07110302-004K Polonium 210	Sample Matrix Spike 400	pCi/L	1.0	90	70	130			12/18/07 12:00
Sample ID: R07110302-004K Polonium 210	Sample Matrix Spike Duplicate 330	pCi/L	1.0	73	70	130	20	30	12/18/07 12:00
Sample ID: LCS-17122 Polonium 210	Laboratory Control Sample 18	pCi/L	1.0	80	70	130			12/18/07 12:00
Sample ID: MB-17122 Polonium 210	Method Blank ND	pCi/L	1						12/18/07 12:00
Method: RMO-3008							Batch: C_R94217		
Sample ID: C07111231-008HMS Polonium 210	Sample Matrix Spike 170	pCi/L	1.0	74	70	130			12/10/07 12:00
Sample ID: C07111231-008HMSD Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	76	70	130	2.4	30	12/10/07 12:00
Sample ID: LCS-R94217 Polonium 210	Laboratory Control Sample 21	pCi/L	1.0	92	70	130			12/10/07 12:00
Sample ID: MB-R94217 Polonium 210	Method Blank ND	pCi/L	1						12/10/07 12:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Respec		Project Name, PWS, Permit, Etc: Dewey-Burdock		Sample Origin:	EPA/State Compliance:
Report Mail Address:		Contact Name: Cory Fereman	Phone/Fax:	State:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Sampler: (Please Print) Cory Fereman Eric Kintz
Special Report/Formats - EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers _____ Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
ANALYSIS REQUESTED		SEE ATTACHED			
Normal Turnaround (TAT)		R U S H			
Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Comments: SN			
Shipped by:		Receipt Temp: 3.6 °C		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cooler Dry:		Custody Seal Intact: Y N		Signature Match: Y N	
Signature: _____		Signature: _____			
Date/Time: _____		Date/Time: _____			
Received by Laboratory:		Signature: _____			
Date/Time: _____		Date/Time: _____			

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers	Sample Type	Vegetation	Bioassay	Other
Sub 08	11/27/07	8:35	W	X	W			
Sub 06	11/27/07	9:36	W	X	W			
Dew Burd Sub 11	11/27/07	10:08	W	X	W			
Dew Burd BK01	11/27/07	2145	W	X	W			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

February 04, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07120148 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 12/12/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07120148-001	DewBurdBVC04	12/11/07 10:00	12/12/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07120148-002	DewBurdBVC01	12/11/07 12:20	12/12/07	Aqueous	Same As Above
R07120148-003	DewBurdBVC01	12/11/07 12:25	12/12/07	Aqueous	Same As Above
R07120148-004	DewBurdCHR05	12/11/07 13:50	12/12/07	Aqueous	Same As Above
R07120148-005	DewBurdBLK01	12/12/07 8:30	12/12/07	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: _____

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-001
 Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
 Collection Date: 12/11/07 10:00
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	10	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	190	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Bicarbonate as HCO3	232	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Calcium	449	mg/L	D	1		10	E200.7	12/27/07 13:20/eli-c
Chloride	601	mg/L	D	2		50	E300.0	12/14/07 02:33/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/13/07 19:06/jmh
Magnesium	101	mg/L		0.5		10	E200.7	12/27/07 13:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:23/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:06/jmh
Potassium	5	mg/L		1		2	E200.7	12/27/07 15:37/eli-c
Silica	11.9	mg/L		0.5		10	E200.7	12/27/07 13:20/eli-c
Sodium	415	mg/L	D	8		10	E200.7	12/27/07 13:20/eli-c
Sulfate	1450	mg/L	D	40		50	E300.0	12/14/07 02:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4370	umhos/cm		5.0		1	A2510 B	12/15/07 18:37/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	12/15/07 19:04/jmh
Sodium Adsorption Ratio (SAR)	4.6	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:05/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	12/12/07 17:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:20/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-001
 Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
 Collection Date: 12/11/07 10:00
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Uranium	0.0114	mg/L		0.0003		1	E200.8	12/18/07 05:20/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 10:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/23/07 10:56/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/20/07 00:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 00:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 00:55/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:56/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	12/27/07 15:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 00:55/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:11/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 00:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 00:55/eli-c
Uranium	0.0135	mg/L		0.0003		1	E200.8	12/20/07 00:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:34/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:42/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-001
 Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
 Collection Date: 12/11/07 10:00
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:10/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:30/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	26	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 20:45/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	8.6	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	1.3	pCi/L				1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	0.3	pCi/L		0.2		1	E903.0	12/31/07 11:00/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	17.1	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	11.7	pCi/L		2.0		1	E900.0	01/26/08 01:17/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	01/26/08 01:17/eli-c
Gross Gamma	1100	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	182	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	35	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	2.9	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	0.3	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec

DATA QUALITY

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-001
Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
Collection Date: 12/11/07 10:00
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	ND	%					1	A1030 E 01/23/08 16:26/sec
Anions	51.0	meq/L					1	A1030 E 01/23/08 16:26/sec
Cations	48.8	meq/L					1	A1030 E 01/23/08 16:26/sec
Solids, Total Dissolved Calculated	3140	mg/L					1	A1030 E 01/23/08 16:26/sec
TDS Balance (0.80 - 1.20)	1.11	dec. %					1	A1030 E 01/23/08 16:26/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:20
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	6	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	188	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Bicarbonate as HCO3	229	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Calcium	452	mg/L	D	1		10	E200.7	12/27/07 13:50/eli-c
Chloride	581	mg/L	D	2		50	E300.0	12/14/07 02:48/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/13/07 19:21/jmh
Magnesium	110	mg/L		0.5		10	E200.7	12/27/07 13:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:24/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:21/jmh
Potassium	5	mg/L		1		2	E200.7	12/27/07 15:40/eli-c
Silica	11.0	mg/L		0.5		10	E200.7	12/27/07 13:50/eli-c
Sodium	426	mg/L	D	8		10	E200.7	12/27/07 13:50/eli-c
Sulfate	1430	mg/L	D	40		50	E300.0	12/14/07 02:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4370	umhos/cm		5.0		1	A2510 B	12/15/07 18:38/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	12/15/07 19:05/jmh
Sodium Adsorption Ratio (SAR)	4.7	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:06/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	12/12/07 17:16/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/18/07 05:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:28/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:20
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Uranium	0.0124	mg/L		0.0003		1	E200.8	12/18/07 05:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 11:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/23/07 11:04/eli-c
METALS - TOTAL								
Aluminum	0.2	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/20/07 01:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 01:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 01:23/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:57/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
Iron	0.25	mg/L		0.03		2	E200.7	12/27/07 15:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 01:23/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 01:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 01:23/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	12/20/07 01:23/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:36/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:45/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:20
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	0.001	mg/L		0.001			1	A3114 B	12/30/07 11:12/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/29/07 10:32/eli-c
Selenium-VI	0.001	mg/L		0.001			1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	11	pCi/L		1.0			1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	1.7	pCi/L					1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.0	pCi/L		1.0			1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L					1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/27/07 21:45/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.0	pCi/L		1.0			1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	0.86	pCi/L					1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	1.6	pCi/L		1.0			1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L					1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	0.4	pCi/L		0.2			1	E903.0	12/31/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	27.9	pCi/L		1.0			1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L					1	E900.0	01/02/08 20:21/eli-c
Gross Beta	14.9	pCi/L		2.0			1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.1	pCi/L					1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	1310	pCi/L		20.0			1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	188	pCi/L					1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	14	pCi/L		1.0			1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.9	pCi/L					1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.6	pCi/L		1.0			1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L					1	RMO-3008	01/07/08 15:00/sec
Radium 226	0.4	pCi/L		0.2			1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/11/08 16:40/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-002
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:20
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	0.412	%					1	A1030 E 01/23/08 16:26/sec
Anions	49.8	meq/L					1	A1030 E 01/23/08 16:26/sec
Cations	50.3	meq/L					1	A1030 E 01/23/08 16:26/sec
Solids, Total Dissolved Calculated	3110	mg/L					1	A1030 E 01/23/08 16:26/sec
TDS Balance (0.80 - 1.20)	1.14	dec. %					1	A1030 E 01/23/08 16:26/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-003
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:25
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	14	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Calcium	451	mg/L	D	1		10	E200.7	12/27/07 13:53/eli-c
Chloride	610	mg/L	D	2		50	E300.0	12/14/07 03:04/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/13/07 19:36/jmh
Magnesium	109	mg/L		0.5		10	E200.7	12/27/07 13:53/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:25/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:36/jmh
Potassium	6	mg/L		1		2	E200.7	12/27/07 15:44/eli-c
Silica	11.0	mg/L		0.5		10	E200.7	12/27/07 13:53/eli-c
Sodium	412	mg/L	D	8		10	E200.7	12/27/07 13:53/eli-c
Sulfate	1510	mg/L	D	40		50	E300.0	12/14/07 03:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4380	umhos/cm		5.0		1	A2510 B	12/15/07 18:39/jmh
pH	7.89	s.u.		0.01		1	A4500-H B	12/15/07 19:06/jmh
Sodium Adsorption Ratio (SAR)	4.5	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:08/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/18/07 05:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:35/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-003
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:25
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	0.01	mg/L		0.01		1	E200.8 12/18/07 05:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/18/07 05:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/18/07 05:35/eli-c
Uranium	0.0129	mg/L		0.0003		1	E200.8 12/18/07 05:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/18/07 05:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/18/07 05:35/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/23/07 11:11/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8 12/23/07 11:11/eli-c
METALS - TOTAL							
Aluminum	0.2	mg/L		0.1		1	E200.8 12/20/07 01:29/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 12/20/07 01:29/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/20/07 01:29/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 12/27/07 16:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/20/07 01:29/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/20/07 01:29/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 12/12/07 17:59/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8 12/20/07 01:29/eli-c
Iron	0.28	mg/L		0.03		2	E200.7 12/27/07 16:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/20/07 01:29/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8 12/20/07 01:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/21/07 19:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/20/07 01:29/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/20/07 01:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/21/07 19:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/20/07 01:29/eli-c
Uranium	0.0151	mg/L		0.0003		1	E200.8 12/20/07 01:29/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/20/07 01:29/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/20/07 01:29/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	0.002	mg/L		0.001		1	A3114 B 12/30/07 10:38/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/29/07 09:47/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B 12/30/07 11:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-003
 Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
 Collection Date: 12/11/07 12:25
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:14/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:34/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 22:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	25.8	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	5.7	pCi/L		2.0		1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.0	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	1120	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	174	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	4.4	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec
DATA QUALITY								
A/C Balance (± 5)	ND	%				1	A1030 E	01/23/08 16:27/sec
Anions	52.3	meq/L				1	A1030 E	01/23/08 16:27/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-003
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:25
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	49.6	meq/L				1	A1030 E	01/23/08 16:27/sec
Solids, Total Dissolved Calculated	3210	mg/L				1	A1030 E	01/23/08 16:27/sec
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	01/23/08 16:27/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-004
 Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
 Collection Date: 12/11/07 13:50
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	6	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Calcium	441	mg/L	D	1		10	E200.7	12/27/07 13:56/eli-c
Chloride	509	mg/L	D	2		50	E300.0	12/14/07 03:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/13/07 19:52/jmh
Magnesium	109	mg/L		0.5		10	E200.7	12/27/07 13:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:26/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:52/jmh
Potassium	6	mg/L		1		2	E200.7	12/27/07 15:47/eli-c
Silica	10.4	mg/L		0.5		10	E200.7	12/27/07 13:56/eli-c
Sodium	360	mg/L	D	8		10	E200.7	12/27/07 13:56/eli-c
Sulfate	1570	mg/L	D	40		50	E300.0	12/14/07 03:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4080	umhos/cm		5.0		1	A2510 B	12/15/07 18:40/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	12/15/07 19:07/jmh
Sodium Adsorption Ratio (SAR)	4.0	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	8	mg/L		5		1	D3977	12/17/07 17:38/jmh
Solids, Total Dissolved TDS @ 180 C	3300	mg/L		5		1	A2540 C	12/13/07 15:09/jmh
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:43/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:43/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-004
 Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
 Collection Date: 12/11/07 13:50
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	0.01	mg/L		0.01		1	E200.8 12/18/07 05:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/18/07 05:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/18/07 05:43/eli-c
Uranium	0.0125	mg/L		0.0003		1	E200.8 12/18/07 05:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/18/07 05:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/18/07 05:43/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/23/07 11:19/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8 12/23/07 11:19/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1	E200.8 12/20/07 01:36/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 12/20/07 01:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/20/07 01:36/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 12/27/07 16:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/20/07 01:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/20/07 01:36/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 12/12/07 17:59/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8 12/20/07 01:36/eli-c
Iron	0.13	mg/L		0.03		2	E200.7 12/27/07 16:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/20/07 01:36/eli-c
Manganese	0.10	mg/L		0.01		1	E200.8 12/20/07 01:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/21/07 19:34/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/20/07 01:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/20/07 01:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/21/07 19:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/20/07 01:36/eli-c
Uranium	0.0152	mg/L		0.0003		1	E200.8 12/20/07 01:36/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/20/07 01:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/20/07 01:36/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	0.002	mg/L		0.001		1	A3114 B 12/30/07 10:40/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/29/07 09:49/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B 12/30/07 11:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-004
 Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
 Collection Date: 12/11/07 13:50
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - TOTAL - SPECIATED									
Selenium	0.001	mg/L		0.001			1	A3114 B	12/30/07 11:16/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/29/07 10:36/eli-c
Selenium-VI	0.001	mg/L		0.001			1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	5.9	pCi/L		1.0			1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	1.3	pCi/L					1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	2.4	pCi/L		1.0			1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/27/07 23:46/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/31/07 12:18/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	24.9	pCi/L		1.0			1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L					1	E900.0	01/02/08 20:21/eli-c
Gross Beta	12.5	pCi/L		2.0			1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.1	pCi/L					1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	12/05/07 10:50/eli-c
- Analysis of an alternate sample aliquot shows ND for K40 as well as Gross Gamma.									
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	5.9	pCi/L		1.0			1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.3	pCi/L					1	E909.0M	01/05/08 14:23/sec
Polonium 210	3.4	pCi/L		1.0			1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2			1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/11/08 16:40/sec
- Analysis of an alternate sample aliquot shows ND for K40 as well as Gross Gamma.									
DATA QUALITY									
A/C Balance (± 5)	ND	%					1	A1030 E	01/23/08 16:27/sec
Anions	50.6	meq/L					1	A1030 E	01/23/08 16:27/sec
Cations	46.8	meq/L					1	A1030 E	01/23/08 16:27/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-004
Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
Collection Date: 12/11/07 13:50
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	3100	mg/L				1	A1030 E	01/23/08 16:27/sec
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	01/23/08 16:27/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-005
 Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
 Collection Date: 12/12/07 08:30
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Calcium	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Chloride	ND	mg/L		1		1	E300.0	12/13/07 20:07/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	12/13/07 20:07/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:27/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/13/07 20:07/jmh
Potassium	ND	mg/L		1		2	E200.7	12/27/07 15:50/eli-c
Silica	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	12/27/07 15:50/eli-c
Sulfate	1	mg/L		1		1	E300.0	12/13/07 20:07/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/15/07 18:41/jmh
pH	5.56	s.u.		0.01		1	A4500-H B	12/15/07 19:10/jmh
Sodium Adsorption Ratio (SAR)	0.16	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	12/17/07 17:38/jmh
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	12/13/07 15:11/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/27/07 15:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:50/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:50/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 16:13/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-005
 Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
 Collection Date: 12/12/07 08:30
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 12/18/07 05:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/18/07 05:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/18/07 05:50/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 12/18/07 05:50/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/18/07 05:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/18/07 05:50/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 12/23/07 11:26/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8 12/23/07 11:26/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1	E200.8 12/20/07 01:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 12/20/07 01:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/20/07 01:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7 12/27/07 16:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/20/07 01:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/20/07 01:43/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 12/12/07 18:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8 12/20/07 01:43/eli-c
Iron	ND	mg/L		0.03		2	E200.7 12/27/07 16:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/20/07 01:43/eli-c
Manganese	ND	mg/L		0.01		1	E200.8 12/20/07 01:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/21/07 19:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/20/07 01:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/20/07 01:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/21/07 19:42/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/20/07 01:43/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 12/20/07 01:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/20/07 01:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/20/07 01:43/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 12/30/07 10:43/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/29/07 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07120148-005
 Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
 Collection Date: 12/12/07 08:30
 Date Received: 12/12/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:18/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/28/07 00:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/31/07 12:18/eli-c
Thorium 230	2.6	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	12/27/07 14:30/eli-c
- Thorium 230 results confirmed by analysis of a second sample aliquot.								
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	01/02/08 20:22/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	01/02/08 20:22/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	2.6	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	01/11/08 16:40/sec
DATA QUALITY								
Anions	0.0264	meq/L				1	A1030 E	01/23/08 16:27/sec
Cations	0.00334	meq/L				1	A1030 E	01/23/08 16:27/sec
- The Ion and TDS balances are not appropriate for near blank results.								

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071218A-ALK-SEL-W		
Sample ID: MBLK1_071218A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3			Run: PH_COND1-R_071218A			12/18/07 18:05
Sample ID: LCS1_071218A Alkalinity, Total as CaCO3	Laboratory Control Sample 1000	mg/L	5.0	100	90	110			12/18/07 18:06
Sample ID: R07120148-001ADUP Alkalinity, Total as CaCO3	Sample Duplicate 190	mg/L	5.0			Run: PH_COND1-R_071218A	0.0	10	12/19/07 18:45
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	232	mg/L	5.0				0.0	10	
Method: A2510 B							Batch: 071215_1_COND-PROBE-W		
Sample ID: LCS1-1_071215 Conductivity @ 25 C	Laboratory Control Sample 155	umhos/cm	5.0	103	90	110			12/15/07 18:21
Sample ID: LCS2-1_071215 Conductivity @ 25 C	Laboratory Control Sample 5180	umhos/cm	5.0	104	90	110			12/15/07 18:22
Sample ID: LCS_COND-1_071215 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			12/15/07 18:23
Sample ID: MBLK-1_071215 Conductivity @ 25 C	Method Blank ND	umhos/cm	5			Run: PH_COND2-R_071215A			12/15/07 18:23
Method: A2540 C							Batch: 071213A-SLDS-TDS-W		
Sample ID: LCS1_071213A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	99	90	110			12/13/07 14:30
Sample ID: MBLK1_071213A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3			Run: BAL-4-R_071213A			12/13/07 14:31
Sample ID: R07120143-003CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 250	mg/L	5.0	105	80	120			12/13/07 14:50
Sample ID: R07120143-003CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 250	mg/L	5.0	103	80	120	1.6	10	12/13/07 14:52

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 071212A-SLDS-TSS-W		
Sample ID: MBLK1_071212A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						Run: BAL-4-R_071212A 12/12/07 17:02
Sample ID: LCS1_071212A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	92	85	115			Run: BAL-4-R_071212A 12/12/07 17:02
Sample ID: R07120148-001ADUP	Sample Duplicate								
Solids, Total Suspended TSS @ 105 C	9.0	mg/L	5.0				11	20	Run: BAL-4-R_071212A 12/12/07 17:14
Method: A3114 B							Batch: C_SE3114-071230		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						Run: SUB-C94924 12/30/07 10:22
Sample ID: R07120148-005G	Sample Matrix Spike								
Selenium	0.044	mg/L	0.0010	87	85	115			Run: SUB-C94924 12/30/07 10:45
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate								
Selenium	0.046	mg/L	0.0010	93	85	115	5.6	10	Run: SUB-C94924 12/30/07 10:47
Sample ID: 288-12-1	Laboratory Control Sample								
Selenium	0.045	mg/L	0.0010	90	90	110			Run: SUB-C94924 12/30/07 10:49
Sample ID: R07120148-005H	Sample Matrix Spike								
Selenium	0.046	mg/L	0.0010	92	85	115			Run: SUB-C94924 12/30/07 11:20
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate								
Selenium	0.045	mg/L	0.0010	90	85	115	1.8	10	Run: SUB-C94924 12/30/07 11:23

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-071229		
Sample ID: MBLK	Method Blank					Run: SUB-C94906			12/29/07 09:32
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07120148-005G	Sample Matrix Spike					Run: SUB-C94906			12/29/07 09:54
Selenium-IV	0.045	mg/L	0.0010	90	85	115			
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate					Run: SUB-C94906			12/29/07 09:56
Selenium-IV	0.047	mg/L	0.0010	93	85	115	3.2	10	
Sample ID: 288-7-1	Laboratory Control Sample					Run: SUB-C94906			12/29/07 10:03
Selenium-IV	0.045	mg/L	0.0010	90	90	110			
Sample ID: R07120148-005H	Sample Matrix Spike					Run: SUB-C94906			12/29/07 10:50
Selenium-IV	0.044	mg/L	0.0010	88	85	115			
- Matrix spike recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate					Run: SUB-C94906			12/29/07 10:52
Selenium-IV	0.042	mg/L	0.0010	83	85	115	5.1	10	S
- Matrix spike duplicate recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									
Method: A3500-Cr B							Batch: 071212A-CR-HEX-W		
Sample ID: MBLK1_071212A	Method Blank					Run: SPEC1_071213A			12/12/07 17:55
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_071212A	Laboratory Control Sample					Run: SPEC1_071213A			12/12/07 17:56
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Sample ID: R07120148-001DMS	Sample Matrix Spike					Run: SPEC1_071213A			12/12/07 17:57
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R07120148-002DMS	Sample Matrix Spike					Run: SPEC1_071213A			12/12/07 17:59
Chromium, Hexavalent	0.21	mg/L	0.0050	107	80	120			
Sample ID: R07120148-003DMS	Sample Matrix Spike					Run: SPEC1_071213A			12/12/07 17:59
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R07120148-004DMS	Sample Matrix Spike					Run: SPEC1_071213A			12/12/07 17:59
Chromium, Hexavalent	0.19	mg/L	0.0050	97	80	120			
Sample ID: R07120148-005DMS	Sample Matrix Spike					Run: SPEC1_071213A			12/12/07 18:00
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 071215_1_PH-W		
Sample ID: LCS_pH-1_071215	Laboratory Control Sample				Run: PH_COND2-R_071215A		12/15/07 18:58		
pH	6.88	s.u.	0.010	100	98.55	101.45			
Method: A4500-NH3 G							Batch: A2007-12-19_2_NH3_01		
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_071219A		12/19/07 12:36		
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071219A		12/19/07 12:40		
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: LFB-5	Laboratory Fortified Blank				Run: TECHAA2-R_071219A		12/19/07 12:41		
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			
Sample ID: R07120125-002BMS	Sample Matrix Spike				Run: TECHAA2-R_071219A		12/19/07 14:15		
Nitrogen, Ammonia as N	0.28	mg/L	0.10	112	80	120			
Sample ID: R07120149-002CMS	Sample Matrix Spike				Run: TECHAA2-R_071219A		12/19/07 14:34		
Nitrogen, Ammonia as N	0.34	mg/L	0.10	113	80	120			
Method: A9222 D							Batch: 071212-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank				Run: MEMFILT_071212A		12/12/07 09:45		
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17242		
Sample ID: MB-17242	Method Blank					Run: SUB-C94881	12/27/07 11:12		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	0.05	mg/L	0.04						
Silica	0.03	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17242	Laboratory Control Sample					Run: SUB-C94881	12/27/07 11:15		
Boron	0.49	mg/L	0.10	99	85	115			
Iron	0.52	mg/L	0.030	105	85	115			
Calcium	47	mg/L	0.50	94	85	115			
Magnesium	47	mg/L	0.50	94	85	115			
Potassium	48	mg/L	0.50	95	85	115			
Sodium	48	mg/L	0.53	97	85	115			
Sample ID: R07120148-001F	Sample Matrix Spike					Run: SUB-C94881	12/27/07 14:06		
Boron	8.85	mg/L	0.13	86	70	130			
Iron	9.16	mg/L	0.087	90	70	130			
Calcium	848	mg/L	0.79	76	70	130			
Magnesium	532	mg/L	0.80	85	70	130			
Potassium	1010	mg/L	0.50	84	70	130			
Silica	20.6	mg/L	0.11	79	70	130			
Sodium	772	mg/L	5.3	70	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07120148-001F	Sample Matrix Spike Duplicate					Run: SUB-C94881	12/27/07 14:09		
Boron	9.37	mg/L	0.13	92	70	130	5.7	20	
Iron	9.54	mg/L	0.087	94	70	130	4.1	20	
Calcium	860	mg/L	0.79	79	70	130	1.4	20	
Magnesium	543	mg/L	0.80	87	70	130	2.0	20	
Potassium	1030	mg/L	0.50	85	70	130	1.1	20	
Silica	21.2	mg/L	0.11	85	70	130	2.8	20	
Sodium	793	mg/L	5.3	74	70	130	2.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R94881		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C94881			12/27/07 10:30		
Silica	2.0	mg/L	0.10	100	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	100	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C94881			12/27/07 10:33		
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	98	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: R07120148-001E	Sample Matrix Spike			Run: SUB-C94881			12/27/07 13:23		
Boron	9.26	mg/L	0.10	91	70	130			
Iron	9.28	mg/L	0.046	93	70	130			
Calcium	857	mg/L	1.0	82	70	130			
Magnesium	525	mg/L	0.50	85	70	130			
Potassium	1060	mg/L	0.50	88	70	130			
Silica	20.9	mg/L	0.20	89	70	130			
Sodium	826	mg/L	7.6	82	70	130			
Sample ID: R07120148-001E	Sample Matrix Spike Duplicate			Run: SUB-C94881			12/27/07 13:27		
Boron	9.77	mg/L	0.10	96	70	130	5.4	20	
Iron	9.60	mg/L	0.046	96	70	130	3.4	20	
Calcium	880	mg/L	1.0	86	70	130	2.6	20	
Magnesium	536	mg/L	0.50	87	70	130	2.1	20	
Potassium	1060	mg/L	0.50	88	70	130	0.8	20	
Silica	21.2	mg/L	0.20	93	70	130	1.7	20	
Sodium	824	mg/L	7.6	82	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17242		
Sample ID: MB-17242	Method Blank					Run: SUB-C94576	12/20/07 00:08		
Aluminum	0.0003	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	9E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-17242	Laboratory Control Sample					Run: SUB-C94576	12/20/07 00:15		
Aluminum	0.020	mg/L	0.10	100	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.020	mg/L	0.10	101	80	120			
Cadmium	0.020	mg/L	0.010	99	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.020	mg/L	0.050	100	80	120			
Manganese	0.021	mg/L	0.010	103	80	120			
Molybdenum	0.020	mg/L	0.10	99	80	120			
Nickel	0.020	mg/L	0.050	98	80	120			
Thorium 232	0.020	mg/L	0.0010	99	80	120			
Uranium	0.020	mg/L	0.00030	99	80	120			
Vanadium	0.020	mg/L	0.10	101	80	120			
Zinc	0.021	mg/L	0.010	105	80	120			
Sample ID: LCS-17242	Laboratory Control Sample					Run: SUB-C94576	12/20/07 00:22		
Aluminum	0.52	mg/L	0.10	104	85	115			
Arsenic	0.53	mg/L	0.0010	106	85	115			
Barium	0.53	mg/L	0.10	106	85	115			
Cadmium	0.52	mg/L	0.010	103	85	115			
Chromium	0.54	mg/L	0.050	108	85	115			
Copper	0.50	mg/L	0.010	100	85	115			
Lead	0.53	mg/L	0.050	106	85	115			
Manganese	0.54	mg/L	0.010	107	85	115			
Molybdenum	0.51	mg/L	0.10	103	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17242		
Sample ID: LCS-17242	Laboratory Control Sample			Run: SUB-C94576			12/20/07 00:22		
Nickel	0.50	mg/L	0.050	101	85	115			
Uranium	0.53	mg/L	0.00032	106	85	115			
Vanadium	0.53	mg/L	0.10	106	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: R07120148-005F	Post Digestion Spike			Run: SUB-C94576			12/20/07 01:50		
Aluminum	0.0796	mg/L	0.10	112	70	130			
Arsenic	0.0740	mg/L	0.0010	106	70	130			
Barium	0.0735	mg/L	0.10	105	70	130			
Cadmium	0.0716	mg/L	0.010	102	70	130			
Chromium	0.0769	mg/L	0.050	110	70	130			
Copper	0.0709	mg/L	0.010	101	70	130			
Lead	0.0722	mg/L	0.050	103	70	130			
Manganese	0.0780	mg/L	0.010	111	70	130			
Molybdenum	0.0718	mg/L	0.10	103	70	130			
Nickel	0.0718	mg/L	0.050	103	70	130			
Thorium 232	0.0737	mg/L	0.0010	105	70	130			
Uranium	0.0734	mg/L	0.00030	105	70	130			
Vanadium	0.0750	mg/L	0.10	107	70	130			
Zinc	0.0721	mg/L	0.010	101	70	130			
Sample ID: R07120148-005F	Post Digestion Spike Duplicate			Run: SUB-C94576			12/20/07 01:57		
Aluminum	0.0785	mg/L	0.10	111	70	130	0.0	20	
Arsenic	0.0714	mg/L	0.0010	102	70	130	3.6	20	
Barium	0.0711	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0688	mg/L	0.010	98	70	130	4.0	20	
Chromium	0.0747	mg/L	0.050	106	70	130	2.9	20	
Copper	0.0678	mg/L	0.010	97	70	130	4.6	20	
Lead	0.0699	mg/L	0.050	100	70	130	3.3	20	
Manganese	0.0763	mg/L	0.010	109	70	130	2.2	20	
Molybdenum	0.0690	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0690	mg/L	0.050	99	70	130	3.9	20	
Thorium 232	0.0716	mg/L	0.0010	102	70	130	2.9	20	
Uranium	0.0716	mg/L	0.00030	102	70	130	2.5	20	
Vanadium	0.0728	mg/L	0.10	104	70	130	0.0	20	
Zinc	0.0695	mg/L	0.010	97	70	130	3.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R94414		
Sample ID: LRB	Method Blank			Run: SUB-C94414			12/17/07 15:10		
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	0.0003	mg/L	7E-05						
Nickel	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C94414			12/17/07 15:24		
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Barium	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0513	mg/L	0.0010	102	85	115			
Chromium	0.0498	mg/L	0.0010	100	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0502	mg/L	0.0010	100	85	115			
Manganese	0.0491	mg/L	0.0010	98	85	115			
Molybdenum	0.0515	mg/L	0.0010	102	85	115			
Nickel	0.0498	mg/L	0.0010	100	85	115			
Silver	0.0197	mg/L	0.0010	99	85	115			
Thorium 232	0.0502	mg/L	0.0010	100	85	115			
Uranium	0.0493	mg/L	0.00030	99	85	115			
Vanadium	0.0507	mg/L	0.0010	101	85	115			
Zinc	0.0513	mg/L	0.0021	103	85	115			
Sample ID: C07120311-004EMS4	Post Digestion Spike			Run: SUB-C94414			12/18/07 06:20		
Aluminum	0.487	mg/L	0.10	97	70	130			
Arsenic	0.480	mg/L	0.0016	95	70	130			
Barium	0.613	mg/L	0.10	98	70	130			
Cadmium	0.449	mg/L	0.010	90	70	130			
Chromium	0.451	mg/L	0.050	90	70	130			
Copper	0.468	mg/L	0.010	94	70	130			
Lead	0.479	mg/L	0.050	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R94414		
Sample ID: C07120311-004EMS4	Post Digestion Spike			Run: SUB-C94414			12/18/07 06:20		
Manganese	0.575	mg/L	0.010	91	70	130			
Molybdenum	0.477	mg/L	0.10	95	70	130			
Nickel	0.454	mg/L	0.050	90	70	130			
Silver	0.131	mg/L	0.010	66	70	130			S
Thorium 232	0.502	mg/L	0.0010	100	70	130			
Uranium	0.519	mg/L	0.00035	101	70	130			
Vanadium	0.481	mg/L	0.10	96	70	130			
Zinc	0.456	mg/L	0.021	91	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C07120311-004EMSD4	Post Digestion Spike Duplicate			Run: SUB-C94414			12/18/07 06:28		
Aluminum	0.476	mg/L	0.10	95	70	130	2.3	20	
Arsenic	0.482	mg/L	0.0016	95	70	130	0.3	20	
Barium	0.593	mg/L	0.10	94	70	130	3.4	20	
Cadmium	0.465	mg/L	0.010	93	70	130	3.5	20	
Chromium	0.462	mg/L	0.050	92	70	130	2.4	20	
Copper	0.462	mg/L	0.010	92	70	130	1.3	20	
Lead	0.480	mg/L	0.050	96	70	130	0.3	20	
Manganese	0.587	mg/L	0.010	93	70	130	2.0	20	
Molybdenum	0.496	mg/L	0.10	99	70	130	3.9	20	
Nickel	0.461	mg/L	0.050	92	70	130	1.6	20	
Silver	0.140	mg/L	0.010	70	70	130	6.6	20	
Thorium 232	0.505	mg/L	0.0010	101	70	130	0.6	20	
Uranium	0.523	mg/L	0.00035	102	70	130	0.8	20	
Vanadium	0.481	mg/L	0.10	96	70	130	0.1	20	
Zinc	0.447	mg/L	0.021	89	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R94699		
Sample ID: LRB	Method Blank				Run: SUB-C94699		12/22/07 22:56		
Thorium 232	0.0001	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C94699		12/22/07 23:04		
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Sample ID: R07120148-005K	Post Digestion Spike				Run: SUB-C94699		12/23/07 11:34		
Thorium 232	0.243	mg/L	0.0010	97	70	130			
Uranium	0.244	mg/L	0.00030	97	70	130			
Sample ID: R07120148-005K	Post Digestion Spike Duplicate				Run: SUB-C94699		12/23/07 12:04		
Thorium 232	0.251	mg/L	0.0010	100	70	130	2.9	20	
Uranium	0.255	mg/L	0.00030	101	70	130	4.2	20	
Method: E200.8							Batch: C_R94802		
Sample ID: LRB	Method Blank				Run: SUB-C94802		12/26/07 12:35		
Mercury	ND	mg/L	8E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C94802		12/26/07 12:42		
Mercury	0.00496	mg/L	0.0010	99	85	115			
Sample ID: R07120148-004E	Post Digestion Spike				Run: SUB-C94802		12/26/07 16:00		
Mercury	0.00601	mg/L	0.0010	120	70	130			
Sample ID: R07120148-004E	Post Digestion Spike Duplicate				Run: SUB-C94802		12/26/07 16:07		
Mercury	0.00550	mg/L	0.0010	110	70	130	8.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32699		
Sample ID: LFB0712131606-3	Laboratory Fortified Blank			Run: DIONEX_071213A			12/13/07 17:49		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0712131606-4	Laboratory Fortified Blank			Run: DIONEX_071213A			12/13/07 18:04		
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.03	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.49	mg/L	0.10	100	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R07120132-001BMS	Sample Matrix Spike			Run: DIONEX_071213A			12/13/07 18:35		
Fluoride	2.34	mg/L	0.10	101	80	120			
Sample ID: R07120132-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071213A			12/13/07 18:50		
Fluoride	2.28	mg/L	0.10	98	80	120	2.6	10	
Sample ID: R07120163-006AMS	Sample Matrix Spike			Run: DIONEX_071213A			12/14/07 01:46		
Chloride	70.3	mg/L	0.50	75	80	120			S
Fluoride	10.3	mg/L	0.32	103	80	120			
Nitrogen, Nitrate as N	25.2	mg/L	0.10	93	80	120			
Sulfate	220	mg/L	3.6	76	80	120			S
Sample ID: R07120163-006AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071213A			12/14/07 02:02		
Chloride	70.5	mg/L	0.50	76	80	120	0.2	10	S
Fluoride	10.3	mg/L	0.32	103	80	120	0.7	10	
Nitrogen, Nitrate as N	25.4	mg/L	0.10	94	80	120	0.7	10	
Sulfate	220	mg/L	3.6	75	80	120	0.1	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0372		
Sample ID: RB-GrAB-0372	Method Blank				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0372	Laboratory Control Sample				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	300	pCi/L	1.0	114	70	130			
Sample ID: Cs137-GrAB-0372	Laboratory Control Sample				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	90	pCi/L	2.0	95	70	130			
Sample ID: C07120838-001AMS	Sample Matrix Spike				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	1200	pCi/L	1.0	90	70	130			
Sample ID: C07120838-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	1300	pCi/L	1.0	104	70	130	14	20	
Sample ID: C07120838-001AMS	Sample Matrix Spike				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	470	pCi/L	2.0	93	70	130			
Sample ID: C07120838-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	480	pCi/L	2.0	96	70	130	2.4	15.3	
Method: E901.1							Batch: C_R94634		
Sample ID: LCS-R94634	Laboratory Control Sample				Run: SUB-C94634			12/05/07 10:50	
Cesium 137	1180	pCi/L	20	84	70	130			
Potassium 40	7170	pCi/L	20	107	70	130			
Sample ID: MB-R94634	Method Blank				Run: SUB-C94634			12/05/07 10:50	
Gross Gamma	ND	pCi/L	20						
Sample ID: C07121021-009ADUP	Sample Duplicate				Run: SUB-C94634			12/05/07 10:50	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_17292		
Sample ID: R07120148-001K	Sample Duplicate				Run: SUB-C94954		12/31/07 11:00		
Radium 226	ND	pCi/L	0.20		70	130	0.0	205.7	
Sample ID: R07120148-005K	Sample Matrix Spike				Run: SUB-C94954		12/31/07 12:18		
Radium 226	60	pCi/L	0.20	97	70	130			
Sample ID: MB-17292	Method Blank				Run: SUB-C94954		12/31/07 12:18		
Radium 226	ND	pCi/L	0.004						
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C94954		12/31/07 12:18		
Radium 226	12	pCi/L	0.20	98	70	130			
Method: E903.0							Batch: C_RA226-2509		
Sample ID: C07110702-001AMS	Sample Matrix Spike				Run: SUB-C94882		12/27/07 17:44		
Radium 226	16	pCi/L	1.0	101	70	130			
Sample ID: C07110702-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94882		12/27/07 18:44		
Radium 226	15	pCi/L	1.0	97	70	130	2.5	27.1	
Sample ID: MB-RA226-2509	Method Blank				Run: SUB-C94882		12/28/07 07:49		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2509	Laboratory Control Sample				Run: SUB-C94882		12/28/07 09:50		
Radium 226	12	pCi/L	0.20	98	70	130			
Method: E907.0							Batch: C_R95122		
Sample ID: LCS-R95122	Laboratory Control Sample				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank				Run: SUB-C95122		12/27/07 15:15		
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R95271		
Sample ID: C07120475-003AMS Thorium 230	Sample Matrix Spike 53.2	pCi/Filter	0.20	92	70	130			12/27/07 14:30
Sample ID: C07120475-003AMSD Thorium 230	Sample Matrix Spike Duplicate 56.3	pCi/Filter	0.20	96	70	130	5.7	30	12/27/07 14:30
Sample ID: LCS-17292 Thorium 230	Laboratory Control Sample 6.10	pCi/Filter	0.20	103	70	130			12/27/07 14:30
Sample ID: MB-17292 Thorium 230	Method Blank ND	pCi/Filter	0.2						12/27/07 14:30
Method: E909.0M							Batch: C_17292		
Sample ID: R07120148-004K Lead 210	Sample Matrix Spike 490	pCi/L	1.0	123	70	130			12/26/07 10:30
Sample ID: MB-R94885 Lead 210	Method Blank ND	pCi/L	1						12/26/07 10:30
Sample ID: LCS-R94885 Lead 210	Laboratory Control Sample 79	pCi/L	1.0	98	70	130			12/26/07 10:30
Method: E909.0M							Batch: C_R94764		
Sample ID: R07120148-002J Lead 210	Sample Matrix Spike 450	pCi/L	1.0	111	70	130			12/21/07 06:15
Sample ID: R07120148-002J Lead 210	Sample Matrix Spike Duplicate 410	pCi/L	1.0	101	70	130	9.1	30	12/21/07 06:15
Sample ID: MB-R94764 Lead 210	Method Blank ND	pCi/L	1						12/21/07 06:15
Sample ID: LCS-R94764 Lead 210	Laboratory Control Sample 77	pCi/L	1.0	97	70	130			12/21/07 06:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_17292		
Sample ID: R07120148-003K	Sample Matrix Spike				Run: SUB-C95192			01/02/08 16:00	
Polonium 210	150	pCi/L	1.0	69	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the low response is considered to be matrix related.									
Sample ID: R07120148-003K	Sample Matrix Spike Duplicate				Run: SUB-C95192			01/02/08 16:00	
Polonium 210	160	pCi/L	1.0	75	70	130	8.5	30	
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C95192			01/02/08 16:00	
Polonium 210	14	pCi/L	1.0	64	70	130			S
- Response is below standard QA limit. This could indicate a low bias for the sample results.									
Sample ID: MB-17292	Method Blank				Run: SUB-C95192			01/02/08 16:00	
Polonium 210	0.2	pCi/L	0.02						
Method: RMO-3008							Batch: C_R94877		
Sample ID: C07120686-001AMS	Sample Matrix Spike				Run: SUB-C94877			12/20/07 12:30	
Polonium 210	190	pCi/L	1.0	82	70	130			
Sample ID: C07120686-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94877			12/20/07 12:30	
Polonium 210	200	pCi/L	1.0	88	70	130	6.1	30	
Sample ID: LCS-R94877	Laboratory Control Sample				Run: SUB-C94877			12/20/07 12:30	
Polonium 210	18	pCi/L	1.0	79	70	130			
Sample ID: MB-R94877	Method Blank				Run: SUB-C94877			12/20/07 12:30	
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Power Tech DB		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Power Tech DB		Sampler: (Please Print) Eric Kentz	
Invoice Address:		Phone/Fax:		Email:	
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POT/WW/WTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		Purchase Order:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1. Dev Burd BVC 4		12/11/07	10:00	W	
2. Dev Burd CMAQ 1		12/11/07	14:05	W	
3. Dev Burd BVC 01		12/11/07	12:20	W	
4. Dev Burd BVC 01		12/11/07	12:25	W	
5. Dev Burd CMAQ 5		12/11/07	13:50	W	
6. Dev Burd BVC 01		12/11/07	12:30	W	
7.					
8.					
9.					
10.					
Custody Record MUST be Signed		Retrieved by (print): Eric Kentz	Date/Time: 12/11/07 09:10	Signature: <i>[Signature]</i>	Received by Laboratory: Steve Triland
		Retrieved by (print):	Date/Time:	Signature:	Received by Laboratory:
		Retrieved by (print):	Date/Time:	Signature:	Received by Laboratory:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

Receipt Temp: **5.2 °C**
 On Ice: Yes No
 Custody Seal: Y N
 Intact: Y N
 Signature: Y N
 Match: Y N

set 4
set 6
set 3
set 2
set 5
07120148-001
003 002
004 003
005 004
006 005



ANALYTICAL SUMMARY REPORT

February 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08010124 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 1/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08010124-001	DewBurdCHR05	01/11/08 8:30	01/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08010124-002	DewBurdBVC01	01/11/08 11:15	01/11/08	Aqueous	Same As Above
R08010124-003	DewBurdBVC04	01/11/08 13:00	01/11/08	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-001
 Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
 Collection Date: 01/11/08 08:30
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2			A9222 D	01/11/08 18:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	234	mg/L		5			A2320 B	01/21/08 16:02/sn
Carbonate as CO3	ND	mg/L		5			A2320 B	01/21/08 16:02/sn
Bicarbonate as HCO3	285	mg/L		5			A2320 B	01/21/08 16:02/sn
Calcium	525	mg/L	D	1		10	E200.7	01/24/08 15:21/eli-c
Chloride	258	mg/L	D	2		50	E300.0	01/12/08 21:50/jmh
Fluoride	0.4	mg/L		0.1			E300.0	01/12/08 22:36/jmh
Magnesium	136	mg/L		0.5			E200.7	01/24/08 16:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			A4500-NH3 G	01/14/08 16:10/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1			E300.0	01/12/08 22:36/jmh
Potassium	7	mg/L		1			E200.7	01/24/08 16:19/eli-c
Silica	14.1	mg/L		0.5			E200.7	01/24/08 16:19/eli-c
Sodium	245	mg/L	D	8		10	E200.7	01/24/08 15:21/eli-c
Sulfate	1610	mg/L	D	40		50	E300.0	01/12/08 21:50/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3510	umhos/cm		5.0			A2510 B	01/17/08 16:55/jmh
pH	7.82	s.u.		0.01			A4500-H B	01/17/08 17:05/jmh
Sodium Adsorption Ratio (SAR)	2.5	unitless		0.10			Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5			D3977	01/17/08 14:45/jmh
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5			A2540 C	01/16/08 10:02/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			A2540 D	01/16/08 10:49/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1			E200.8	01/20/08 23:07/eli-c
Arsenic	ND	mg/L		0.001			E200.8	01/17/08 18:08/eli-c
Barium	ND	mg/L		0.1			E200.8	01/17/08 18:08/eli-c
Boron	0.3	mg/L		0.1			E200.7	01/24/08 16:19/eli-c
Cadmium	ND	mg/L		0.005			E200.8	01/17/08 18:08/eli-c
Chromium	ND	mg/L		0.01			E200.8	01/20/08 23:07/eli-c
Copper	ND	mg/L		0.01			E200.8	01/17/08 18:08/eli-c
Iron	ND	mg/L		0.03			E200.7	01/24/08 16:19/eli-c
Lead	ND	mg/L		0.001			E200.8	01/17/08 18:08/eli-c
Manganese	0.07	mg/L		0.01			E200.8	01/20/08 23:07/eli-c
Mercury	ND	mg/L		0.001			E200.8	01/17/08 18:08/eli-c
Molybdenum	ND	mg/L		0.1			E200.8	01/17/08 18:08/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-001
 Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
 Collection Date: 01/11/08 08:30
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1 E200.8	01/17/08 18:08/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/17/08 18:08/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	01/17/08 18:08/eli-c
Uranium	0.0150	mg/L		0.0003		1 E200.8	01/17/08 18:08/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	01/17/08 18:08/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/17/08 18:08/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1 E200.8	01/20/08 21:33/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	01/20/08 21:33/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1 E200.8	01/20/08 16:47/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	01/20/08 16:47/eli-c
Barium	ND	mg/L		0.1		1 E200.8	01/20/08 16:47/eli-c
Boron	0.2	mg/L		0.1		1 E200.7	01/24/08 16:29/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	01/20/08 16:47/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	01/20/08 16:47/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1 A3500-Cr B	01/12/08 10:44/sn
Chromium, Trivalent	ND	mg/L		0.01		1 Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01		1 E200.8	01/20/08 16:47/eli-c
Iron	0.06	mg/L		0.03		1 E200.7	01/24/08 16:29/eli-c
Lead	ND	mg/L		0.001		1 E200.8	01/20/08 16:47/eli-c
Manganese	0.13	mg/L		0.01		1 E200.8	01/20/08 16:47/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	01/20/08 16:47/eli-c
Molybdenum	ND	mg/L		0.1		1 E200.8	01/20/08 16:47/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	01/20/08 16:47/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/20/08 16:47/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	01/20/08 16:47/eli-c
Uranium	0.0158	mg/L		0.0003		1 E200.8	01/20/08 16:47/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	01/20/08 16:47/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/20/08 16:47/eli-c
Calcium	515	mg/L	D	0.8		10 E200.7	01/24/08 16:08/eli-c
Magnesium	132	mg/L		0.5		1 E200.7	01/24/08 16:29/eli-c
Potassium	6.2	mg/L		0.5		1 E200.7	01/24/08 16:29/eli-c
Silica	13.5	mg/L		0.1		1 E200.7	01/24/08 16:29/eli-c
Sodium	248	mg/L		0.5		1 E200.7	01/24/08 16:29/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-001
 Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
 Collection Date: 01/11/08 08:30
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/17/08 12:33/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/17/08 09:49/eli-ca
Selenium-VI	0.002	mg/L		0.001			1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/21/08 13:50/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/21/08 11:13/eli-ca
Selenium-VI	0.003	mg/L		0.001			1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	22	pCi/L		1.0			1	E909.0M	01/21/08 11:30/eli-c
Lead 210 precision (±)	3.6	pCi/L					1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/28/08 11:26/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	19.3	pCi/L		1.0			1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	2.8	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Beta	10.8	pCi/L		2.0			1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	6.9	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	22	pCi/L		1.0			1	E909.0M	02/05/08 17:18/sec
Lead 210 precision (±)	3.6	pCi/L					1	E909.0M	02/05/08 17:18/sec
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2			1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/05/08 17:18/sec
DATA QUALITY									
A/C Balance (± 5)	2.85	%					1	A1030 E	02/05/08 13:41/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-001
Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
Collection Date: 01/11/08 08:30
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Anions	45.6	meq/L				1	A1030 E	02/05/08 13:41/sec
Cations	48.2	meq/L				1	A1030 E	02/05/08 13:41/sec
Solids, Total Dissolved Calculated	2920	mg/L				1	A1030 E	02/05/08 13:41/sec
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	02/05/08 13:41/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
 Collection Date: 01/11/08 11:15
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	16	CFU/100ml	D	2		2	A9222 D	01/11/08 18:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Calcium	499	mg/L	D	1		10	E200.7	01/24/08 15:25/eli-c
Chloride	208	mg/L	D	2		50	E300.0	01/12/08 22:52/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/12/08 23:07/jmh
Magnesium	114	mg/L		0.5		1	E200.7	01/24/08 16:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/14/08 16:11/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	01/12/08 23:07/jmh
Potassium	5	mg/L		1		1	E200.7	01/24/08 16:23/eli-c
Silica	13.0	mg/L		0.5		1	E200.7	01/24/08 16:23/eli-c
Sodium	182	mg/L	D	8		10	E200.7	01/24/08 15:25/eli-c
Sulfate	1470	mg/L	D	40		50	E300.0	01/12/08 22:52/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3140	umhos/cm		5.0		1	A2510 B	01/17/08 16:55/jmh
pH	7.68	s.u.		0.01		1	A4500-H B	01/17/08 17:06/jmh
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	12	mg/L		5		1	D3977	01/17/08 14:46/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	01/16/08 10:05/sn
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	01/16/08 10:50/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/20/08 23:14/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	01/20/08 23:14/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/24/08 16:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/20/08 23:14/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
 Collection Date: 01/11/08 11:15
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Uranium	0.0134	mg/L		0.0003		1	E200.8	01/17/08 18:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	01/20/08 21:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/20/08 21:39/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/20/08 16:54/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	01/12/08 10:44/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Iron	0.29	mg/L		0.03		1	E200.7	01/24/08 16:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/20/08 16:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Uranium	0.0139	mg/L		0.0003		1	E200.8	01/20/08 16:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Calcium	506	mg/L	D	0.8		10	E200.7	01/24/08 16:13/eli-c
Magnesium	121	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c
Potassium	5.3	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c
Silica	14.6	mg/L		0.1		1	E200.7	01/24/08 16:32/eli-c
Sodium	191	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-002
 Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
 Collection Date: 01/11/08 11:15
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/17/08 12:35/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/17/08 09:51/eli-ca
Selenium-VI	0.003	mg/L		0.001			1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/21/08 13:52/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/21/08 11:15/eli-ca
Selenium-VI	0.003	mg/L		0.001			1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	1.4	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/28/08 11:26/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	12.6	pCi/L		1.0			1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	1.9	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Beta	4.1	pCi/L		2.0			1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	4.6	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	02/05/08 17:18/sec
Polonium 210	1.4	pCi/L		1.0			1	RMO-3008	02/05/08 17:18/sec
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2			1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/05/08 17:18/sec
DATA QUALITY									
A/C Balance (± 5)	1.85	%					1	A1030 E	02/05/08 13:42/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-002
Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
Collection Date: 01/11/08 11:15
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Anions	40.8	meq/L				1	A1030 E	02/05/08 13:42/sec
Cations	42.3	meq/L				1	A1030 E	02/05/08 13:42/sec
Solids, Total Dissolved Calculated	2610	mg/L				1	A1030 E	02/05/08 13:42/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	02/05/08 13:42/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc Report Date: 02/29/08
 Project: Edgemont Collection Date: 01/11/08 13:00
 Lab ID: R08010124-003 Date Received: 01/11/08
 Client Sample ID: DewBurdBVC04 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/			Method	Analysis Date / By
					QCL	DF	DF		
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	4	CFU/100ml	D	2	2			A9222 D	01/11/08 18:15/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	220	mg/L		5				A2320 B	01/21/08 16:06/sn
Carbonate as CO3	ND	mg/L		5				A2320 B	01/21/08 16:06/sn
Bicarbonate as HCO3	268	mg/L		5				A2320 B	01/21/08 16:06/sn
Calcium	463	mg/L	D	1	10			E200.7	01/24/08 15:28/eli-c
Chloride	255	mg/L	D	2	50			E300.0	01/12/08 23:23/jmh
Fluoride	0.3	mg/L		0.1				E300.0	01/12/08 23:38/jmh
Magnesium	124	mg/L		0.5				E200.7	01/24/08 16:26/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1				A4500-NH3 G	01/14/08 16:12/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1				E300.0	01/12/08 23:38/jmh
Potassium	5	mg/L		1				E200.7	01/24/08 16:26/eli-c
Silica	14.1	mg/L		0.5				E200.7	01/24/08 16:26/eli-c
Sodium	224	mg/L	D	8	10			E200.7	01/24/08 15:28/eli-c
Sulfate	1450	mg/L	D	40	50			E300.0	01/12/08 23:23/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3310	umhos/cm		5.0				A2510 B	01/17/08 16:56/jmh
pH	7.80	s.u.		0.01				A4500-H B	01/17/08 17:06/jmh
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10				Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	24	mg/L		5				D3977	01/17/08 14:46/jmh
Solids, Total Dissolved TDS @ 180 C	3000	mg/L		5				A2540 C	01/16/08 10:06/sn
Solids, Total Suspended TSS @ 105 C	25	mg/L		5				A2540 D	01/16/08 10:51/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1				E200.8	01/20/08 23:21/eli-c
Arsenic	ND	mg/L		0.001				E200.8	01/17/08 18:21/eli-c
Barium	ND	mg/L		0.1				E200.8	01/17/08 18:21/eli-c
Boron	0.2	mg/L		0.1				E200.7	01/24/08 16:26/eli-c
Cadmium	ND	mg/L		0.005				E200.8	01/17/08 18:21/eli-c
Chromium	ND	mg/L		0.01				E200.8	01/20/08 23:21/eli-c
Copper	ND	mg/L		0.01				E200.8	01/17/08 18:21/eli-c
Iron	ND	mg/L		0.03				E200.7	01/24/08 16:26/eli-c
Lead	ND	mg/L		0.001				E200.8	01/17/08 18:21/eli-c
Manganese	0.05	mg/L		0.01				E200.8	01/20/08 23:21/eli-c
Mercury	ND	mg/L		0.001				E200.8	01/17/08 18:21/eli-c
Molybdenum	ND	mg/L		0.1				E200.8	01/17/08 18:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-003
 Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
 Collection Date: 01/11/08 13:00
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			1	E200.8	01/17/08 18:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/17/08 18:21/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/17/08 18:21/eli-c
Uranium	0.0141	mg/L		0.0003			1	E200.8	01/17/08 18:21/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	01/17/08 18:21/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/17/08 18:21/eli-c
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			1	E200.8	01/20/08 21:46/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	01/20/08 21:46/eli-c
METALS - TOTAL									
Aluminum	0.6	mg/L		0.1			1	E200.8	01/20/08 17:01/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	01/20/08 17:01/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/20/08 17:01/eli-c
Boron	0.2	mg/L		0.1			1	E200.7	01/24/08 16:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/20/08 17:01/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/20/08 17:01/eli-c
Chromium, Hexavalent	ND	mg/L		0.005			1	A3500-Cr B	01/12/08 10:45/sn
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01			1	E200.8	01/20/08 17:01/eli-c
Iron	0.68	mg/L		0.03			1	E200.7	01/24/08 16:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/20/08 17:01/eli-c
Manganese	0.12	mg/L		0.01			1	E200.8	01/20/08 17:01/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	01/20/08 17:01/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	01/20/08 17:01/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/20/08 17:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/20/08 17:01/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/20/08 17:01/eli-c
Uranium	0.0144	mg/L		0.0003			1	E200.8	01/20/08 17:01/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	01/20/08 17:01/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/20/08 17:01/eli-c
Calcium	508	mg/L	D	0.8			10	E200.7	01/24/08 16:16/eli-c
Magnesium	125	mg/L		0.5			1	E200.7	01/24/08 16:55/eli-c
Potassium	5.4	mg/L		0.5			1	E200.7	01/24/08 16:55/eli-c
Silica	16.6	mg/L		0.1			1	E200.7	01/24/08 16:55/eli-c
Sodium	259	mg/L		0.5			1	E200.7	01/24/08 16:55/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level. Page 10 of 12
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08010124-003
 Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
 Collection Date: 01/11/08 13:00
 Date Received: 01/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/17/08 12:37/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/17/08 09:53/eli-ca
Selenium-VI	0.003	mg/L		0.001			1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED									
Selenium	0.003	mg/L		0.001			1	A3114 B	01/21/08 13:54/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/21/08 11:17/eli-ca
Selenium-VI	0.003	mg/L		0.001			1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED									
Lead 210	2.2	pCi/L		1.0			1	E909.0M	01/17/08 11:45/eli-c
Lead 210 precision (±)	1.0	pCi/L					1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L					1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	01/28/08 12:51/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	13.9	pCi/L		1.0			1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	2.6	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Beta	7.2	pCi/L		2.0			1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	6.9	pCi/L					1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	2.2	pCi/L		1.0			1	E909.0M	02/05/08 17:18/sec
Lead 210 precision (±)	1.0	pCi/L					1	E909.0M	02/05/08 17:18/sec
Polonium 210	1.8	pCi/L		1.0			1	RMO-3008	02/05/08 17:18/sec
Polonium 210 precision (±)	1.2	pCi/L					1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2			1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/05/08 17:18/sec

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-003
Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
Collection Date: 01/11/08 13:00
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	1.72	%				1	A1030 E	02/05/08 13:42/sec
Anions	41.7	meq/L				1	A1030 E	02/05/08 13:42/sec
Cations	43.2	meq/L				1	A1030 E	02/05/08 13:42/sec
Solids, Total Dissolved Calculated	2650	mg/L				1	A1030 E	02/05/08 13:42/sec
TDS Balance (0.80 - 1.20)	1.12	dec. %				1	A1030 E	02/05/08 13:42/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080121A-ALK-SEL-W		
Sample ID: MBLK1_080121A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080121A 01/21/08 15:58
Sample ID: LCS1_080121A Alkalinity, Total as CaCO3	Laboratory Control Sample 1000	mg/L	5.0	100	90	110			Run: PH_COND1-R_080121A 01/21/08 16:00
Sample ID: R08010143-007AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 280	mg/L	5.0	89	80	120			Run: PH_COND1-R_080121A 01/21/08 16:33
Sample ID: R08010143-007AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 284	mg/L	5.0	92	80	120	1.4	10	Run: PH_COND1-R_080121A 01/21/08 16:44
Method: A2510 B							Batch: 080117_1_COND-PROBE-W		
Sample ID: LCS1-1_080117 Conductivity @ 25 C	Laboratory Control Sample 145	umhos/cm	5.0	97	90	110			Run: PH_COND2-R_080117A 01/17/08 16:48
Sample ID: LCS2-1_080117 Conductivity @ 25 C	Laboratory Control Sample 4850	umhos/cm	5.0	97	90	110			Run: PH_COND2-R_080117A 01/17/08 16:49
Sample ID: LCS_COND-1_080117 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080117A 01/17/08 16:50
Sample ID: MBLK-1_080117 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080117A 01/17/08 16:51
Sample ID: R08010118-001ADUP Conductivity @ 25 C	Sample Duplicate 3890	umhos/cm	5.0				0.8	10	Run: PH_COND2-R_080117A 01/17/08 16:54
Method: A2540 C							Batch: 080116A-SLDS-TDS-W		
Sample ID: MBLK1_080116A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080116B 01/16/08 09:52
Sample ID: LCS1_080116A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	109	90	110			Run: BAL-4-R_080116B 01/16/08 09:53
Sample ID: R08010124-001CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3400	mg/L	5.0	102	80	120			Run: BAL-4-R_080116B 01/16/08 10:03
Sample ID: R08010124-001CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3400	mg/L	5.0	95	80	120	0.4	10	Run: BAL-4-R_080116B 01/16/08 10:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080116A-SLDS-TSS-W		
Sample ID: MBLK1_080116A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Run: BAL-4-R_080116A							01/16/08 10:41		
Sample ID: LCS1_080116A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	98	85	115			
Run: BAL-4-R_080116A							01/16/08 10:42		
Method: A3114 B							Batch: C_R95691		
Sample ID: R08010124-001A	Sample Matrix Spike								
Selenium-VI	0.0026	mg/L	0.0010	1	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate								
Selenium-VI	0.0022	mg/L	0.0010	1	85	115	0.0	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: A3114 B							Batch: C_R95840		
Sample ID: R08010124-001H	Sample Matrix Spike								
Selenium-VI	0.050	mg/L	0.0010	94	85	115			
Run: SUB-C95840							01/21/08 14:21		
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate								
Selenium-VI	0.052	mg/L	0.0010	98	85	115	4.0	10	
Run: SUB-C95840							01/21/08 14:21		
Method: A3114 B							Batch: C_SE3114-080117		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0003						
Run: SUB-C95688							01/17/08 12:18		
Sample ID: 288-20-3	Laboratory Control Sample								
Selenium	0.054	mg/L	0.0010	107	90	110			
Run: SUB-C95688							01/17/08 12:25		
Sample ID: R08010124-001A	Sample Matrix Spike								
Selenium	0.048	mg/L	0.0010	90	85	115			
Run: SUB-C95688							01/17/08 12:44		
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate								
Selenium	0.048	mg/L	0.0010	92	85	115	1.3	10	
Run: SUB-C95688							01/17/08 12:46		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080121		
Sample ID: MBLK	Method Blank								
Selenium	0.0007	mg/L	0.0004						
						Run: SUB-C95838			01/21/08 13:46
Sample ID: 288-20-3	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	98	90	110			01/21/08 13:48
						Run: SUB-C95838			01/21/08 13:56
Sample ID: R08010124-001H	Sample Matrix Spike								
Selenium	0.050	mg/L	0.0010	94	85	115			01/21/08 13:58
						Run: SUB-C95838			01/21/08 13:58
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate								
Selenium	0.052	mg/L	0.0010	98	85	115	4.0	10	
						Run: SUB-C95838			01/21/08 13:58
Method: A3114 B							Batch: C_SE3114-IV-080117		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						
						Run: SUB-C95667			01/17/08 09:44
Sample ID: 288-20-3	Laboratory Control Sample								
Selenium-IV	0.048	mg/L	0.0010	96	90	110			01/17/08 09:46
						Run: SUB-C95667			01/17/08 09:55
Sample ID: R08010124-001A	Sample Matrix Spike								
Selenium-IV	0.045	mg/L	0.0010	89	85	115			01/17/08 09:55
						Run: SUB-C95667			01/17/08 09:55
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate								
Selenium-IV	0.046	mg/L	0.0010	91	85	115	2.3	10	01/17/08 09:57
						Run: SUB-C95667			01/17/08 09:57
Method: A3114 B							Batch: C_SEIV3114-080121		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						
						Run: SUB-C95828			01/21/08 11:08
Sample ID: 288-20-3	Laboratory Control Sample								
Selenium-IV	0.050	mg/L	0.0010	99	90	110			01/21/08 11:11
						Run: SUB-C95828			01/21/08 11:11
Sample ID: R08010124-001H	Sample Matrix Spike								
Selenium-IV	0.047	mg/L	0.0010	94	85	115			01/21/08 11:21
						Run: SUB-C95828			01/21/08 11:21
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate								
Selenium-IV	0.048	mg/L	0.0010	96	85	115	2.0	10	01/21/08 11:23
						Run: SUB-C95828			01/21/08 11:23

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080112A-CR-HEX-W		
Sample ID: MBLK1_080112A Chromium, Hexavalent	Method Blank ND	mg/L	0.005						
					Run: SPEC1_080112A				01/12/08 10:42
Sample ID: LCS1_080112A Chromium, Hexavalent	Laboratory Control Sample 0.19	mg/L	0.0050	96	80	120			01/12/08 10:42
					Run: SPEC1_080112A				01/12/08 10:44
Sample ID: R08010124-001Ems Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	101	80	120			01/12/08 10:45
					Run: SPEC1_080112A				01/12/08 10:45
Sample ID: R08010124-002Ems Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	100	80	120			01/12/08 10:45
					Run: SPEC1_080112A				01/12/08 10:45
Sample ID: R08010124-003Ems Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	103	80	120			01/12/08 10:45
					Run: SPEC1_080112A				01/12/08 10:45
Method: A4500-H B							Batch: 080117_1_PH-W		
Sample ID: LCS_pH-1_080117 pH	Laboratory Control Sample 6.91	s.u.	0.010	101	98.55	101.45			01/17/08 17:03
					Run: PH_COND2-R_080117A				01/17/08 17:04
Sample ID: R08010118-001ADUP pH	Sample Duplicate 6.30	s.u.	0.010				0.3	1.25	01/17/08 17:04
					Run: PH_COND2-R_080117A				01/17/08 17:04
Method: A4500-NH3 G							Batch: A2008-01-14_2_NH3_01		
Sample ID: MBLK-1 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02						01/14/08 14:58
					Run: TECHAA2-R_080114A				01/14/08 14:58
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	108	90	110			01/14/08 15:01
					Run: TECHAA2-R_080114A				01/14/08 15:01
Sample ID: LFB-5 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	106	90	110			01/14/08 15:02
					Run: TECHAA2-R_080114A				01/14/08 15:02
Sample ID: R08010103-002CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	99	80	120			01/14/08 16:02
					Run: TECHAA2-R_080114A				01/14/08 16:02
Method: A9222 D							Batch: 080111-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml	1						01/11/08 18:15
					Run: MEMFILT_080111A				01/11/08 18:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_17535
Sample ID: MB-17535	Method Blank								01/24/08 14:12
Boron	ND	mg/L	0.01						
Iron	0.01	mg/L	0.009						
Sample ID: LCS-17535	Laboratory Control Sample								01/24/08 14:16
Boron	0.494	mg/L	0.10	99	85	115			
Iron	0.518	mg/L	0.030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R96073		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C96073			01/24/08 13:11		
Silica	1.9	mg/L	0.10	94	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C96073			01/24/08 13:15		
Calcium	29	mg/L	0.50	115	85	125			
Magnesium	27	mg/L	0.50	109	85	125			
Potassium	28	mg/L	0.50	112	85	125			
Sodium	26	mg/L	0.76	106	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C96073			01/24/08 13:21		
Silica	ND	mg/L	0.10		0	0			
Boron	0.012	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Iron	ND	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Potassium	ND	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Sample ID: C08010646-001BMS	Sample Matrix Spike			Run: SUB-C96073			01/24/08 15:35		
Boron	11.4	mg/L	0.10	101	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Calcium	759	mg/L	1.0	90	70	130			
Magnesium	510	mg/L	0.50	93	70	130			
Potassium	1240	mg/L	0.50	98	70	130			
Silica	52.7	mg/L	0.20		0	0			A
Sodium	1340	mg/L	7.6	83	70	130			
Sample ID: C08010646-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C96073			01/24/08 15:38		
Boron	11.4	mg/L	0.10	100	70	130	0.4	20	
Iron	9.62	mg/L	0.046	96	70	130	0.9	20	
Calcium	753	mg/L	1.0	89	70	130	0.8	20	
Magnesium	504	mg/L	0.50	92	70	130	1.2	20	
Potassium	1220	mg/L	0.50	97	70	130	1.5	20	
Silica	52.6	mg/L	0.20		70	130	0.2	20	A
Sodium	1330	mg/L	7.6	81	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17535		
Sample ID: MB-17535	Method Blank		Run: SUB-C95861			01/20/08 15:06			
Aluminum	0.002	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	0.0002	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	7E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	0.0001	mg/L	6E-06						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Silver	0.002	mg/L	4E-05						
Uranium	6E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L							
Sample ID: LCS1-17535	Laboratory Control Sample		Run: SUB-C95861			01/20/08 15:12			
Aluminum	0.0211	mg/L	0.10	97	80	120			
Arsenic	0.0203	mg/L	0.0010	101	80	120			
Barium	0.0222	mg/L	0.10	110	80	120			
Cadmium	0.0214	mg/L	0.010	107	80	120			
Chromium	0.0206	mg/L	0.050	103	80	120			
Copper	0.0208	mg/L	0.010	104	80	120			
Lead	0.0210	mg/L	0.050	105	80	120			
Manganese	0.0206	mg/L	0.010	103	80	120			
Mercury	0.000763	mg/L	0.0010	6	80	120			S
Molybdenum	0.0214	mg/L	0.10	107	80	120			
Nickel	0.0211	mg/L	0.050	105	80	120			
Silver	0.0208	mg/L	0.010	95	80	120			
Uranium	0.0212	mg/L	0.00030	106	80	120			
Vanadium	0.0206	mg/L	0.10	103	80	120			
Zinc	0.0222	mg/L	0.010	102	80	120			
Sample ID: LCS-17535	Laboratory Control Sample		Run: SUB-C95861			01/20/08 15:19			
Aluminum	0.514	mg/L	0.10	102	85	115			
Arsenic	0.549	mg/L	0.0010	110	85	115			
Barium	0.553	mg/L	0.10	111	85	115			
Cadmium	0.537	mg/L	0.010	107	85	115			
Chromium	0.536	mg/L	0.050	107	85	115			
Copper	0.525	mg/L	0.010	105	85	115			
Lead	0.538	mg/L	0.050	108	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17535		
Sample ID: LCS-17535	Laboratory Control Sample			Run: SUB-C95861			01/20/08 15:19		
Manganese	0.527	mg/L	0.010	105	85	115			
Molybdenum	0.540	mg/L	0.10	108	85	115			
Nickel	0.533	mg/L	0.050	107	85	115			
Silver	0.246	mg/L	0.010	122	85	115			S
Uranium	0.551	mg/L	0.00032	110	85	115			
Vanadium	0.536	mg/L	0.10	107	85	115			
Zinc	0.536	mg/L	0.010	107	85	115			
Sample ID: R08010124-003B	Post Digestion Spike			Run: SUB-C95861			01/20/08 17:08		
Aluminum	0.662	mg/L	0.10		70	130			A
Arsenic	0.0730	mg/L	0.0010	103	70	130			
Barium	0.101	mg/L	0.10	101	70	130			
Cadmium	0.0657	mg/L	0.010	94	70	130			
Chromium	0.0705	mg/L	0.050	99	70	130			
Copper	0.0689	mg/L	0.010	94	70	130			
Lead	0.0723	mg/L	0.050	103	70	130			
Manganese	0.181	mg/L	0.010	94	70	130			
Mercury	0.00619	mg/L	0.0010	88	70	130			
Molybdenum	0.0963	mg/L	0.10	106	70	130			
Nickel	0.0741	mg/L	0.050	99	70	130			
Silver	0.0273	mg/L	0.010	68	70	130			S
Uranium	0.0868	mg/L	0.00030	103	70	130			
Vanadium	0.0739	mg/L	0.10	103	70	130			
Zinc	0.0696	mg/L	0.010	92	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08010124-003B	Post Digestion Spike Duplicate			Run: SUB-C95861			01/20/08 17:14		
Aluminum	0.645	mg/L	0.10		70	130	2.7	20	A
Arsenic	0.0740	mg/L	0.0010	104	70	130	1.3	20	
Barium	0.105	mg/L	0.10	106	70	130	3.8	20	
Cadmium	0.0668	mg/L	0.010	95	70	130	1.7	20	
Chromium	0.0710	mg/L	0.050	100	70	130	0.7	20	
Copper	0.0694	mg/L	0.010	95	70	130	0.7	20	
Lead	0.0741	mg/L	0.050	105	70	130	2.4	20	
Manganese	0.182	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00644	mg/L	0.0010	92	70	130	3.9	20	
Molybdenum	0.0963	mg/L	0.10	106	70	130	0.0	20	
Nickel	0.0743	mg/L	0.050	99	70	130	0.3	20	
Silver	0.0304	mg/L	0.010	76	70	130	11	20	
Uranium	0.0913	mg/L	0.00030	110	70	130	5.1	20	
Vanadium	0.0745	mg/L	0.10	104	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17535		
Sample ID: R08010124-003B	Post Digestion Spike Duplicate				Run: SUB-C95861			01/20/08 17:14	
Zinc	0.0695	mg/L	0.010	92	70	130	0.1	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: E200.8							Batch: C_17550		
Sample ID: MB-17550	Method Blank				Run: SUB-C95861			01/20/08 21:12	
Thorium 232	2E-05	mg/L							
Uranium	ND	mg/L							
Sample ID: LCS1-17550	Laboratory Control Sample				Run: SUB-C95861			01/20/08 21:19	
Uranium	0.0550	mg/L	0.00030	105	80	120			
Sample ID: R08010124-003K	Post Digestion Spike				Run: SUB-C95861			01/20/08 21:53	
Thorium 232	0.0522	mg/L	0.0010	104	70	130			
Uranium	0.0518	mg/L	0.00030	103	70	130			
Sample ID: R08010124-003K	Post Digestion Spike Duplicate				Run: SUB-C95861			01/20/08 21:59	
Thorium 232	0.0534	mg/L	0.0010	106	70	130	2.3	20	
Uranium	0.0527	mg/L	0.00030	105	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R95693		
Sample ID: LRB	Method Blank		Run: SUB-C95693			01/17/08 11:55			
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.002	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C95693			01/17/08 12:02			
Arsenic	0.0527	mg/L	0.0010	105	85	115			
Barium	0.0527	mg/L	0.0010	105	85	115			
Cadmium	0.0545	mg/L	0.0010	109	85	115			
Copper	0.0530	mg/L	0.0010	106	85	115			
Lead	0.0530	mg/L	0.0010	106	85	115			
Mercury	0.00540	mg/L	0.0010	108	85	115			
Molybdenum	0.0550	mg/L	0.0010	110	85	115			
Nickel	0.0525	mg/L	0.0010	105	85	115			
Silver	0.0204	mg/L	0.0010	94	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0522	mg/L	0.00030	104	85	115			
Vanadium	0.0540	mg/L	0.0010	108	85	115			
Zinc	0.0550	mg/L	0.0010	107	85	115			
Sample ID: R08010124-003A	Post Digestion Spike		Run: SUB-C95693			01/17/08 18:28			
Arsenic	0.0579	mg/L	0.0010	114	70	130			
Barium	0.0747	mg/L	0.10	102	70	130			
Cadmium	0.0502	mg/L	0.010	100	70	130			
Copper	0.0486	mg/L	0.010	91	70	130			
Lead	0.0537	mg/L	0.050	107	70	130			
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0792	mg/L	0.10	117	70	130			
Nickel	0.0539	mg/L	0.050	95	70	130			
Silver	0.0155	mg/L	0.010	78	70	130			
Thorium 232	0.0579	mg/L	0.0010	116	70	130			
Uranium	0.0715	mg/L	0.00030	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R95693			
Sample ID: R08010124-003A	Post Digestion Spike			Run: SUB-C95693			01/17/08 18:28			
Vanadium	0.0505	mg/L	0.10	99	70	130				
Zinc	0.0463	mg/L	0.010	88	70	130				
Sample ID: R08010124-003A	Post Digestion Spike Duplicate			Run: SUB-C95693			01/17/08 18:35			
Arsenic	0.0528	mg/L	0.0010	104	70	130	9.2	20		
Barium	0.0734	mg/L	0.10	99	70	130	0.0	20		
Cadmium	0.0467	mg/L	0.010	93	70	130	7.1	20		
Copper	0.0465	mg/L	0.010	87	70	130	4.5	20		
Lead	0.0512	mg/L	0.050	102	70	130	4.8	20		
Mercury	0.00525	mg/L	0.0010	105	70	130	2.7	20		
Molybdenum	0.0734	mg/L	0.10	106	70	130	0.0	20		
Nickel	0.0493	mg/L	0.050	85	70	130	0.0	20		
Silver	0.0161	mg/L	0.010	80	70	130	3.5	20		
Thorium 232	0.0547	mg/L	0.0010	109	70	130	5.7	20		
Uranium	0.0680	mg/L	0.00030	108	70	130	5.0	20		
Vanadium	0.0478	mg/L	0.10	93	70	130	0.0	20		
Zinc	0.0448	mg/L	0.010	86	70	130	3.2	20		
Method: E200.8							Batch: C_R95861			
Sample ID: LRB	Method Blank			Run: SUB-C95861			01/20/08 14:52			
Aluminum	ND	mg/L	0.0001							
Chromium	ND	mg/L	4E-05							
Manganese	ND	mg/L	5E-05							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C95861			01/20/08 14:59			
Aluminum	0.0538	mg/L	0.0010	73	85	115		S		
Chromium	0.0526	mg/L	0.0010	103	85	115				
Manganese	0.0525	mg/L	0.0010	104	85	115				
Sample ID: C08010421-002FMS4	Post Digestion Spike			Run: SUB-C95861			01/21/08 00:01			
Aluminum	0.0561	mg/L	0.10	106	70	130				
Chromium	0.0528	mg/L	0.050	106	70	130				
Manganese	0.0737	mg/L	0.010	106	70	130				
Sample ID: C08010421-002FMSD4	Post Digestion Spike Duplicate			Run: SUB-C95861			01/21/08 00:08			
Aluminum	0.0558	mg/L	0.10	106	70	130	0.0	20		
Chromium	0.0536	mg/L	0.050	107	70	130	1.5	20		
Manganese	0.0743	mg/L	0.010	107	70	130	0.8	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33099		
Sample ID: LFB0801121403-3	Laboratory Fortified Blank			Run: DIONEX_080112A			01/12/08 21:19		
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0801121403-4	Laboratory Fortified Blank			Run: DIONEX_080112A			01/12/08 21:35		
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: R08010124-001CMS	Sample Matrix Spike			Run: DIONEX_080112A			01/12/08 22:06		
Chloride	475	mg/L	2.0	87	80	120			
Fluoride	102	mg/L	3.2	94	80	120			
Nitrogen, Nitrate as N	124	mg/L	0.84	99	80	120			
Sulfate	2250	mg/L	36	85	80	120			
Sample ID: R08010124-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080112A			01/12/08 22:21		
Chloride	461	mg/L	2.0	81	80	120	2.9	10	
Fluoride	99.7	mg/L	3.2	92	80	120	2.1	10	
Nitrogen, Nitrate as N	118	mg/L	0.84	94	80	120	4.7	10	
Sulfate	2240	mg/L	36	83	80	120	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0383		
Sample ID: RB-GrAB-0383	Method Blank					Run: SUB-C95875		01/22/08 08:04	
Gross Alpha	ND	pCi/L		1					
Gross Beta	ND	pCi/L		2					
Sample ID: UNAT-GrAB-0383	Laboratory Control Sample					Run: SUB-C95875		01/22/08 08:05	
Gross Alpha	300	pCi/L	1.0	108	70	130			
Sample ID: Cs137-GrAB-0383	Laboratory Control Sample					Run: SUB-C95875		01/22/08 08:04	
Gross Beta	90	pCi/L	2.0	92	70	130			
Sample ID: C08010670-002IDUP	Sample Duplicate					Run: SUB-C95875		01/22/08 20:17	
Gross Alpha	3	pCi/L	1.0				32	43.4	
Gross Beta	ND	pCi/L	2.0				0.0	126.4	
Sample ID: C08010689-008ADUP	Sample Duplicate					Run: SUB-C95875		01/22/08 20:17	
Gross Alpha	36.7	pCi/L	1.0				5.1	18.9	
Gross Beta	5.26	pCi/L	2.0				42	114.1	
Sample ID: C07121289-006EDUP	Sample Duplicate					Run: SUB-C95875		01/23/08 09:33	
Gross Alpha	92	pCi/L	1.0				3.4	15.6	
Gross Beta	42	pCi/L	2.0				6.5	19.7	
Method: E901.1							Batch: C_R96034		
Sample ID: LCS-R96034	Laboratory Control Sample					Run: SUB-C96034		01/17/08 16:36	
Cesium 137	1170	pCi/L	20	83	70	130			
Potassium 40	7470	pCi/L	20	112	70	130			
Sample ID: MB-R96034	Method Blank					Run: SUB-C96034		01/17/08 16:36	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08010124-003I	Sample Duplicate					Run: SUB-C96034		01/17/08 16:36	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_17550		
Sample ID: LCS-17550	Laboratory Control Sample					Run: SUB-C96206			01/28/08 12:51
Radium 226	13	pCi/L	0.20	102	70	130			
Sample ID: MB-17550	Method Blank					Run: SUB-C96206			01/28/08 12:51
Radium 226	ND	pCi/L	0.004						
Sample ID: C08010814-002EMS	Sample Matrix Spike					Run: SUB-C96206			01/28/08 12:51
Radium 226	19	pCi/L	0.20	100	70	130			
Sample ID: C08010814-002EMSD	Sample Matrix Spike Duplicate					Run: SUB-C96206			01/28/08 12:51
Radium 226	19	pCi/L	0.20	100	70	130	0.0	26.8	
Method: E903.0							Batch: C_RA226-2570		
Sample ID: C08010841-001AMS	Sample Matrix Spike					Run: SUB-C96318			01/29/08 20:01
Radium 226	87	pCi/L	0.20	75	70	130			
Sample ID: C08010841-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C96318			01/29/08 20:01
Radium 226	89	pCi/L	0.20	90	70	130	2.1	16.8	
Sample ID: MB-RA226-2570	Method Blank					Run: SUB-C96318			01/29/08 20:01
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2570	Laboratory Control Sample					Run: SUB-C96318			01/29/08 20:01
Radium 226	13	pCi/L	0.20	100	70	130			
Method: E907.0							Batch: C_17550		
Sample ID: C08010565-001AMS	Sample Matrix Spike					Run: SUB-C96303			01/21/08 14:15
Thorium 230	48.8	pCi/Filter	0.20	105	70	130			
Sample ID: C08010565-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C96303			01/21/08 14:15
Thorium 230	38.8	pCi/Filter	0.20	83	70	130	23	30	
Sample ID: LCS-17550	Laboratory Control Sample					Run: SUB-C96303			01/21/08 14:15
Thorium 230	4.50	pCi/Filter	0.20	92	70	130			
Sample ID: MB-17550	Method Blank					Run: SUB-C96303			01/21/08 14:15
Thorium 230	ND	pCi/Filter	0.004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/29/08
 Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R96218		
Sample ID: LCS-R96218	Laboratory Control Sample					Run: SUB-C96218			01/17/08 16:00
Thorium 230	4.70	pCi/L	0.20	96	70	130			
Sample ID: C08010620-001AMS	Sample Matrix Spike					Run: SUB-C96218			01/17/08 16:00
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C08010620-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C96218			01/17/08 16:00
Thorium 230	16.2	pCi/L	0.20	99	70	130	6.4	30	
Sample ID: MB-R96218	Method Blank					Run: SUB-C96218			01/17/08 16:00
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M							Batch: C_17550		
Sample ID: R08010124-003K	Sample Matrix Spike					Run: SUB-C96134			01/21/08 11:30
Lead 210	1300	pCi/L	1.0	112	70	130			
Sample ID: R08010124-003K	Sample Matrix Spike Duplicate					Run: SUB-C96134			01/21/08 11:30
Lead 210	990	pCi/L	1.0	83	70	130	30	30	
Sample ID: MB-R96134	Method Blank					Run: SUB-C96134			01/21/08 11:30
Lead 210	ND	pCi/Filter	1						
Sample ID: LCS-R96134	Laboratory Control Sample					Run: SUB-C96134			01/21/08 11:30
Lead 210	136	pCi/Filter	1.0	114	70	130			
Method: E909.0M							Batch: C_R95837		
Sample ID: C08010421-004AMS	Sample Matrix Spike					Run: SUB-C95837			01/17/08 11:45
Lead 210	530	pCi/L	1.0	132	70	130			S
- Spike response is outside of the acceptance range for this analysis but within control limits. Since the LCS and the RPD for the MS MSD pair are acceptable, the high response is considered to be matrix related. The batch is approved.									
Sample ID: C08010421-004AMSD	Sample Matrix Spike Duplicate					Run: SUB-C95837			01/17/08 11:45
Lead 210	440	pCi/L	1.0	111	70	130	17	30	
Sample ID: MB-R95837	Method Blank					Run: SUB-C95837			01/17/08 11:45
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R95837	Laboratory Control Sample					Run: SUB-C95837			01/17/08 11:45
Lead 210	51	pCi/L	1.0	72	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_17550		
Sample ID: C08010814-002EMS Polonium 210	Sample Matrix Spike 97	pCi/L	1.0	75	70	130			01/21/08 14:00
Sample ID: C08010814-002EMSD Polonium 210	Sample Matrix Spike Duplicate 100	pCi/L	1.0	80	70	130	7.2	30	01/21/08 14:00
Sample ID: LCS-17550 Polonium 210	Laboratory Control Sample 19	pCi/L	1.0	84	70	130			01/21/08 14:00
Sample ID: MB-17550 Polonium 210	Method Blank ND	pCi/L	1						01/21/08 14:00
Method: RMO-3008							Batch: C_R96219		
Sample ID: LCS-R96219 Polonium 210	Laboratory Control Sample 18	pCi/L	1.0	81	70	130			01/21/08 14:00
Sample ID: MB-R96219 Polonium 210	Method Blank ND	pCi/L	1						01/21/08 14:00
Sample ID: C08010814-001DMS Polonium 210	Sample Matrix Spike 170	pCi/L	1.0	76	70	130			01/21/08 14:00
Sample ID: C08010814-001DMSD Polonium 210	Sample Matrix Spike Duplicate 190	pCi/L	1.0	85	70	130	11	30	01/21/08 14:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

April 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08020083 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 2/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020083-001	DewBurd Sub08	02/10/08 15:10	02/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08020083-002	DewBurd Sub06	02/10/08 16:10	02/11/08	Aqueous	Same As Above
R08020083-003	DewBurd Sub02	02/10/08 17:00	02/11/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-001
 Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
 Collection Date: 02/10/08 15:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	246	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Bicarbonate as HCO3	300	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Calcium	186	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Chloride	42	mg/L		1		5	E300.0	02/14/08 16:59/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/12/08 19:52/sn
Magnesium	78.8	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:53/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/12/08 19:52/sn
Potassium	17	mg/L		1		1	E200.7	02/27/08 21:15/eli-c
Silica	9.9	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Sodium	759	mg/L	D	8		10	E200.7	02/27/08 18:57/eli-c
Sulfate	1790	mg/L	D	7		100	E300.0	02/14/08 16:43/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4180	umhos/cm		5.0		1	A2510 B	02/16/08 15:25/jmh
pH	7.54	s.u.		0.01		1	A4500-H B	02/16/08 14:59/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	04/15/08 00:00/kl
Solids, Suspended Sediment SSC @ 105 C	66	mg/L		5		1	D3977	02/20/08 16:28/jmh
Solids, Total Dissolved TDS @ 180 C	3400	mg/L		5		1	A2540 C	02/11/08 14:57/jmh
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	02/15/08 10:59/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 21:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 21:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 21:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 21:25/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	02/27/08 21:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8	02/21/08 21:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-001
 Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
 Collection Date: 02/10/08 15:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.05		1	E200.8 02/21/08 21:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/22/08 17:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 02/21/08 21:25/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8 02/21/08 21:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 02/21/08 21:25/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8 02/21/08 21:25/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 02/21/08 23:23/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 02/21/08 23:23/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1		1	E200.8 02/21/08 21:17/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 02/21/08 05:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8 02/21/08 05:45/eli-c
Boron	0.7	mg/L		0.1		1	E200.7 02/27/08 21:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 02/21/08 05:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 02/21/08 05:45/eli-c
Chromium, Hexavalent	0.008	mg/L		0.005		1	A3500-Cr B 02/11/08 16:18/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 04/15/08 00:00/kl
Copper	ND	mg/L		0.01		1	E200.8 02/21/08 05:45/eli-c
Iron	0.34	mg/L		0.03		1	E200.7 02/27/08 21:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8 02/21/08 05:45/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8 02/21/08 05:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/21/08 05:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 02/21/08 05:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 02/21/08 05:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/21/08 05:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 02/21/08 05:45/eli-c
Uranium	0.0023	mg/L	D	0.0005		1	E200.8 02/21/08 05:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 02/21/08 05:45/eli-c
Zinc	ND	mg/L		0.04		1	E200.8 02/21/08 21:17/eli-c
Calcium	181	mg/L		0.5		1	E200.7 02/27/08 21:24/eli-c
Magnesium	78.3	mg/L		0.5		1	E200.7 02/27/08 21:24/eli-c
Potassium	16.1	mg/L		0.5		1	E200.7 02/27/08 21:24/eli-c
Silica	11.0	mg/L		0.1		1	E200.7 02/27/08 21:24/eli-c
Sodium	789	mg/L	D	5		10	E200.7 02/27/08 19:26/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 2 of 11

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-001
 Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
 Collection Date: 02/10/08 15:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	02/19/08 12:03/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/19/08 10:14/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	02/19/08 17:19/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/19/08 15:30/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	ND	pCi/L		0.2			1	E903.0	03/03/08 11:48/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	1.2	pCi/L		0.2			1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	12.2	pCi/L		1.0			1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	3.3	pCi/L					1	E900.0	02/29/08 03:49/eli-c
Gross Beta	13.9	pCi/L		2.0			1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	7.2	pCi/L					1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	0.4	pCi/L		0.2			1	E903.0	03/04/08 16:55/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/04/08 16:55/eli-c
Thorium 230	0.6	pCi/L		0.2			1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.04	pCi/L					1	E907.0	02/22/08 14:15/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.26						1	A1030 E	04/15/08 00:00/kl
Anions	43.5	meq/L					1	A1030 E	04/15/08 00:00/kl
Cations	49.3	meq/L					1	A1030 E	04/15/08 00:00/kl
Solids, Total Dissolved Calculated	3020	mg/L					1	A1030 E	04/15/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.12						1	A1030 E	04/15/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-002
 Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
 Collection Date: 02/10/08 16:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Calcium	534	mg/L	D	1		10	E200.7	02/27/08 19:00/eli-c
Chloride	10	mg/L		1		1	E300.0	02/12/08 20:23/sn
Fluoride	7.4	mg/L		0.1		1	E300.0	02/12/08 20:23/sn
Magnesium	878	mg/L		0.5		10	E200.7	02/27/08 19:00/eli-c
Nitrogen, Ammonia as N	4.5	mg/L	D	0.1		10	A4500-NH3 G	02/11/08 18:16/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	02/12/08 20:23/sn
Potassium	35	mg/L		1		1	E200.7	02/27/08 21:18/eli-c
Silica	37.2	mg/L		0.5		1	E200.7	02/27/08 21:18/eli-c
Sodium	113	mg/L	D	0.8		1	E200.7	02/27/08 21:18/eli-c
Sulfate	7330	mg/L	D	7		100	E300.0	02/14/08 17:14/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7640	umhos/cm		5.0		1	A2510 B	02/16/08 15:27/jmh
pH	3.19	s.u.		0.01		1	A4500-H B	02/16/08 15:00/jmh
Sodium Adsorption Ratio (SAR)	0.70	unitless		0.10		1	Calculation	04/15/08 00:00/kl
Solids, Suspended Sediment SSC @ 105 C	14	mg/L		5		1	D3977	02/20/08 16:28/jmh
Solids, Total Dissolved TDS @ 180 C	6800	mg/L		5		1	A2540 C	02/11/08 14:58/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	02/15/08 11:01/jmh
METALS - DISSOLVED								
Aluminum	162	mg/L		0.1		10	E200.7	02/27/08 19:00/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:18/eli-c
Cadmium	0.036	mg/L		0.005		1	E200.8	02/21/08 21:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 21:32/eli-c
Copper	0.13	mg/L		0.01		1	E200.8	02/21/08 21:32/eli-c
Iron	7.35	mg/L		0.03		1	E200.7	02/27/08 21:18/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Manganese	299	mg/L		0.01		10	E200.7	02/27/08 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-002
 Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
 Collection Date: 02/10/08 16:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	6.45	mg/L		0.05		1	E200.8	02/21/08 21:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 17:51/eli-c
Thorium 232	0.013	mg/L		0.005		1	E200.8	02/21/08 21:32/eli-c
Uranium	7.84	mg/L		0.0003		1	E200.8	02/21/08 21:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Zinc	6.58	mg/L		0.01		1	E200.7	02/27/08 21:18/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 23:31/eli-c
Uranium	0.0019	mg/L		0.0003		1	E200.8	02/21/08 23:31/eli-c
METALS - TOTAL								
Aluminum	166	mg/L		0.1		10	E200.8	02/21/08 21:24/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:28/eli-c
Cadmium	0.031	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:53/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	02/11/08 16:18/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/kl
Copper	0.13	mg/L		0.01		1	E200.8	02/21/08 05:53/eli-c
Iron	8.22	mg/L		0.03		1	E200.7	02/27/08 21:28/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Manganese	317	mg/L		0.01		10	E200.7	02/27/08 19:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Nickel	6.14	mg/L		0.05		1	E200.8	02/21/08 05:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Thorium 232	0.013	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Uranium	6.73	mg/L	D	0.0005		1	E200.8	02/21/08 05:53/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Zinc	7.22	mg/L	D	0.02		10	E200.8	02/21/08 21:24/eli-c
Calcium	571	mg/L	D	0.8		10	E200.7	02/27/08 19:29/eli-c
Magnesium	930	mg/L	D	0.8		10	E200.7	02/27/08 19:29/eli-c
Potassium	37.1	mg/L		0.5		1	E200.7	02/27/08 21:28/eli-c
Silica	41.5	mg/L		0.1		1	E200.7	02/27/08 21:28/eli-c
Sodium	115	mg/L		0.5		1	E200.7	02/27/08 21:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-002
 Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
 Collection Date: 02/10/08 16:10
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.017	mg/L		0.001		1	A3114 B	02/19/08 12:05/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 10:16/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.016	mg/L		0.001		1	A3114 B	02/19/08 17:21/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:33/eli-c
Selenium-VI	0.016	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	2.2	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	25.2	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	02/22/08 14:15/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/03/08 11:48/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.0	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8750	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	43.6	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	3600	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	45.5	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	675	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	192	pCi/L				1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.8	pCi/L		0.2		1	E903.0	03/04/08 18:25/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/04/08 18:25/eli-c
Thorium 230	31.1	pCi/L		0.2		1	E907.0	02/29/08 11:45/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	02/29/08 11:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.74					1	A1030 E	04/15/08 00:00/kl
Anions	154	meq/L				1	A1030 E	04/15/08 00:00/kl
Cations	145	meq/L				1	A1030 E	04/15/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-002
Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
Collection Date: 02/10/08 16:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	8910	mg/L				1	A1030 E	04/15/08 00:00/IKI
TDS Balance (0.80 - 1.20)	0.770					1	A1030 E	04/15/08 00:00/IKI

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-003
 Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
 Collection Date: 02/10/08 17:00
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	90	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Bicarbonate as HCO3	110	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Calcium	538	mg/L	D	1		10	E200.7	02/27/08 19:23/eli-c
Chloride	24	mg/L		1		5	E300.0	02/14/08 18:00/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/12/08 20:54/sn
Magnesium	198	mg/L		0.5		1	E200.7	02/27/08 21:21/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 18:17/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	02/12/08 20:54/sn
Potassium	23	mg/L		1		1	E200.7	02/27/08 21:21/eli-c
Silica	2.8	mg/L		0.5		1	E200.7	02/27/08 21:21/eli-c
Sodium	169	mg/L	D	0.8		1	E200.7	02/27/08 21:21/eli-c
Sulfate	2500	mg/L	D	7		100	E300.0	02/14/08 17:45/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3800	umhos/cm		5.0		1	A2510 B	02/16/08 15:28/jmh
pH	7.81	s.u.		0.01		1	A4500-H B	02/16/08 15:02/jmh
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	04/15/08 00:00/kl
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	02/20/08 16:29/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	02/11/08 15:00/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	02/15/08 11:02/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/27/08 21:21/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 22:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 22:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
Iron	0.07	mg/L		0.03		1	E200.7	02/27/08 21:21/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-003
 Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
 Collection Date: 02/10/08 17:00
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 22:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 18:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 22:20/eli-c
Uranium	0.177	mg/L		0.0003		1	E200.8	02/22/08 18:11/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 23:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 23:38/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/27/08 21:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 06:00/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/11/08 16:09/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/kl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 06:00/eli-c
Iron	0.22	mg/L		0.03		1	E200.7	02/27/08 21:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	02/21/08 06:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 06:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Uranium	0.168	mg/L	D	0.0005		1	E200.8	02/21/08 06:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Zinc	ND	mg/L		0.02		1	E200.8	02/21/08 21:32/eli-c
Calcium	579	mg/L	D	0.8		10	E200.7	02/27/08 19:33/eli-c
Magnesium	201	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c
Potassium	23.6	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c
Silica	2.9	mg/L		0.1		1	E200.7	02/27/08 21:31/eli-c
Sodium	175	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 9 of 11

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020083-003
 Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
 Collection Date: 02/10/08 17:00
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	02/19/08 12:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 10:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	02/19/08 17:23/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:35/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.4	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0	02/22/08 14:15/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/03/08 11:48/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 14:45/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	131	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	81.5	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	8.4	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.6	pCi/L		0.2		1	E903.0	03/04/08 19:56/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/04/08 19:56/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/22/08 14:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.33					1	A1030 E	04/15/08 00:00/lkl
Anions	54.6	meq/L				1	A1030 E	04/15/08 00:00/lkl
Cations	51.1	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	3510	mg/L				1	A1030 E	04/15/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-003
Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
Collection Date: 02/10/08 17:00
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.830					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080221A-ALK-SEL-W		
Sample ID: MBLK1_080221A Alkalinity, Total as CaCO3	Method Blank ND mg/L		3			Run: PH_COND1-R_080221A		02/21/08 16:26	
Sample ID: LCS1_080221A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010 mg/L		5.0	101	90	110	Run: PH_COND1-R_080221A	02/21/08 16:28	
Sample ID: R08020143-002BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 380 mg/L		5.0	96	80	120	Run: PH_COND1-R_080221A	02/21/08 16:57	
Sample ID: R08020143-002BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 380 mg/L		5.0	96	80	120	0.0	20	02/21/08 17:00
Method: A2510 B							Batch: 080216_1_COND-PROBE-W		
Sample ID: LCS1-1_080216 Conductivity @ 25 C	Laboratory Control Sample 154 umhos/cm		5.0	103	90	110	Run: PH_COND2-R_080216A	02/16/08 15:21	
Sample ID: LCS2-1_080216 Conductivity @ 25 C	Laboratory Control Sample 5060 umhos/cm		5.0	101	90	110	Run: PH_COND2-R_080216A	02/16/08 15:21	
Sample ID: LCS_COND-1_080216 Conductivity @ 25 C	Laboratory Control Sample 1400 umhos/cm		5.0	99	90	110	Run: PH_COND2-R_080216A	02/16/08 15:22	
Sample ID: MBLK-1_080216 Conductivity @ 25 C	Method Blank ND umhos/cm		5			Run: PH_COND2-R_080216A		02/16/08 15:22	
Method: A2540 C							Batch: 080211A-SLDS-TDS-W		
Sample ID: MBLK1_080211A Solids, Total Dissolved TDS @ 180 C	Method Blank ND mg/L		3			Run: BAL-4-R_080211A		02/11/08 14:08	
Sample ID: LCS1_080211A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210 mg/L		5.0	104	90	110	Run: BAL-4-R_080211A	02/11/08 14:09	
Sample ID: R08020065-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1000 mg/L		5.0	101	80	120	Run: BAL-4-R_080211A	02/11/08 14:47	
Sample ID: R08020065-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1000 mg/L		5.0	112	80	120	2.1	10	02/11/08 14:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 04/30/08

Project: Edgemont

Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080215A-SLDS-TSS-W		
Sample ID: MBLK1_080215A	Method Blank								Run: BAL-4-R_080215A 02/15/08 10:56
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080215A	Laboratory Control Sample								Run: BAL-4-R_080215A 02/15/08 10:57
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	108	85	115			
Sample ID: R08020083-001CDUP	Sample Duplicate								Run: BAL-4-R_080215A 02/15/08 11:00
Solids, Total Suspended TSS @ 105 C	15	mg/L	5.0				6.9	20	
Method: A3114 B							Batch: C_R97081		
Sample ID: C08020402-001EMS	Sample Matrix Spike								Run: SUB-C97081 02/19/08 12:26
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate								Run: SUB-C97081 02/19/08 12:26
Selenium-VI	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B							Batch: C_R97115		
Sample ID: C08020551-001HMS	Sample Matrix Spike								Run: SUB-C97115 02/19/08 17:37
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate								Run: SUB-C97115 02/19/08 17:37
Selenium-VI	0.048	mg/L	0.0010	96	85	115	0.7	10	
Method: A3114 B							Batch: C_SE3114-021908D		
Sample ID: MBLK	Method Blank								Run: SUB-C97114 02/19/08 16:21
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample								Run: SUB-C97114 02/19/08 16:37
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020551-001HMS	Sample Matrix Spike								Run: SUB-C97114 02/19/08 17:26
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate								Run: SUB-C97114 02/19/08 17:28
Selenium	0.049	mg/L	0.0010	98	85	115	2.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080219		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C97079			02/19/08 11:44
Sample ID: 288-30-5 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			02/19/08 11:47
Sample ID: C08020402-001EMS Selenium	Sample Matrix Spike 0.048 mg/L		0.0010	96	85	115			02/19/08 12:10
Sample ID: C08020402-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	99	85	115	3.9	10	02/19/08 12:12
Method: A3114 B							Batch: C_SEIV3114-021908C		
Sample ID: MBLK Selenium-IV	Method Blank 0.0003 mg/L		6E-05			Run: SUB-C97108			02/19/08 15:22
Sample ID: 288-30-5 Selenium-IV	Laboratory Control Sample 0.052 mg/L		0.0010	104	90	110			02/19/08 15:24
Sample ID: C08020551-001HMSD Selenium-IV	Sample Matrix Spike Duplicate 0.047 mg/L		0.0010	94	85	115	1.4	10	02/19/08 15:39
Sample ID: R08020083-001H Selenium-IV	Sample Matrix Spike 0.048 mg/L		0.0010	96	85	115			02/19/08 15:41
Method: A3114 B							Batch: C_SEIV3114-080219		
Sample ID: MBLK Selenium-IV	Method Blank 0.003 mg/L		6E-05			Run: SUB-C97072			02/19/08 09:27
Sample ID: 288-30-5 Selenium-IV	Laboratory Control Sample 0.051 mg/L		0.0010	102	90	110			02/19/08 09:43
Sample ID: C08020402-001EMS Selenium-IV	Sample Matrix Spike 0.089 mg/L		0.0010	177	85	115			02/19/08 10:20 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.085 mg/L		0.0010	169	85	115	5.0	10	02/19/08 10:22 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080211A-CR-HEX-W		
Sample ID: MBLK1_080211A Chromium, Hexavalent	Method Blank ND	mg/L	0.005				Run: SPEC1_080211A		02/11/08 16:07
Sample ID: LCS1_080211A Chromium, Hexavalent	Laboratory Control Sample 0.20	mg/L	0.0050	99	80	120	Run: SPEC1_080211A		02/11/08 16:08
Sample ID: R08020083-001EMS Chromium, Hexavalent	Sample Matrix Spike 0.22	mg/L	0.0050	103	80	120	Run: SPEC1_080211A		02/11/08 16:08
Sample ID: R08020083-002EMS Chromium, Hexavalent	Sample Matrix Spike 0.36	mg/L	0.010	90	80	120	Run: SPEC1_080211A		02/11/08 16:18
Sample ID: R08020083-003EMS Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	102	80	120	Run: SPEC1_080211A		02/11/08 16:09
Method: A4500-H B							Batch: 080216_1_PH-W		
Sample ID: LCS_pH-1_080216 pH	Laboratory Control Sample 6.93	s.u.	0.010	101	98.55	101.45	Run: PH_COND2-R_080216A		02/16/08 14:56
Method: A4500-NH3 G							Batch: A2008-02-11_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	102	90	110	Run: TECHAA2-R_080211A		02/11/08 15:32
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	99	90	110	Run: TECHAA2-R_080211A		02/11/08 15:33
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080211A		02/11/08 15:34
Sample ID: R08020074-002CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.69	mg/L	0.10	94	80	120	Run: TECHAA2-R_080211A		02/11/08 17:47
Method: A9222 D							Batch: 080211-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml	1				Run: MEMFILT_080211A		02/11/08 13:40

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17796		
Sample ID: MB-17796	Method Blank			Run: SUB-C97399			02/26/08 12:13		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97440			02/27/08 15:39		
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Manganese	0.576	mg/L	0.010	115	85	115			
Calcium	52.3	mg/L	0.50	105	85	115			
Magnesium	50.1	mg/L	0.50	100	85	115			
Potassium	51.4	mg/L	0.50	103	85	115			
Silica	0.591	mg/L	0.10	118	85	115			S
Sodium	52.2	mg/L	0.53	104	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike			Run: SUB-C97440			02/27/08 18:27		
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Manganese	10.0	mg/L	0.010	99	70	130			
Calcium	929	mg/L	0.79	81	70	130			
Magnesium	555	mg/L	0.80	87	70	130			
Potassium	1160	mg/L	0.50	96	70	130			
Silica	26.4	mg/L	0.11	98	70	130			
Sodium	654	mg/L	5.3	89	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C97440			02/27/08 18:30		
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Manganese	10.1	mg/L	0.010	100	70	130	1.5	20	
Calcium	954	mg/L	0.79	86	70	130	2.7	20	
Magnesium	572	mg/L	0.80	90	70	130	3.0	20	
Potassium	1160	mg/L	0.50	97	70	130	0.1	20	
Silica	26.3	mg/L	0.11	97	70	130	0.3	20	
Sodium	654	mg/L	5.3	89	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97440		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:40		
Silica	2.0	mg/L	0.10	100	85	125			
Aluminum	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Manganese	2.0	mg/L	0.010	102	85	125			
Zinc	2.0	mg/L	0.010	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:43		
Calcium	24	mg/L	0.50	96	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97440			02/27/08 13:50		
Silica	ND	mg/L	0.10						
Aluminum	ND	mg/L	0.10						
Boron	0.015	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Manganese	ND	mg/L	0.010						
Potassium	0.045	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Zinc	ND	mg/L	0.010						
Sample ID: C08020547-001AMS	Sample Matrix Spike			Run: SUB-C97440			02/27/08 17:35		
Aluminum	9.63	mg/L	0.10	96	70	130			
Boron	10.2	mg/L	0.10	100	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Manganese	10.4	mg/L	0.010	103	70	130			
Zinc	9.93	mg/L	0.022	99	70	130			
Calcium	914	mg/L	1.0	84	70	130			
Magnesium	558	mg/L	0.50	89	70	130			
Potassium	1140	mg/L	0.50	94	70	130			
Silica	23.1	mg/L	0.20	93	70	130			
Sodium	638	mg/L	7.6	89	70	130			
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97440			02/27/08 17:38		
Aluminum	9.66	mg/L	0.10	97	70	130	0.3	20	
Boron	10.3	mg/L	0.10	101	70	130	1.3	20	
Iron	9.72	mg/L	0.046	97	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97440		
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97440			02/27/08 17:38		
Manganese	10.2	mg/L	0.010	101	70	130	2.4	20	
Zinc	9.88	mg/L	0.022	99	70	130	0.5	20	
Calcium	902	mg/L	1.0	81	70	130	1.3	20	
Magnesium	552	mg/L	0.50	88	70	130	1.1	20	
Potassium	1130	mg/L	0.50	94	70	130	0.4	20	
Silica	22.9	mg/L	0.20	92	70	130	0.6	20	
Sodium	627	mg/L	7.6	87	70	130	1.7	20	
Method: E200.8							Batch: C_17792		
Sample ID: MB-17792	Method Blank			Run: SUB-C97226			02/21/08 21:54		
Thorium 232	8E-05	mg/L	1E-06						
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample			Run: SUB-C97226			02/21/08 22:01		
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike			Run: SUB-C97226			02/21/08 23:45		
Thorium 232	0.0251	mg/L	0.0010	100	70	130			
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate			Run: SUB-C97226			02/21/08 23:53		
Thorium 232	0.0247	mg/L	0.0010	99	70	130	1.5	20	
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: R08020083-003B	Post Digestion Spike			Run: SUB-C97150			02/21/08 06:08		
Aluminum	0.276	mg/L	0.10	110	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Thorium 232	0.249	mg/L	0.0010	100	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Vanadium	0.271	mg/L	0.10	108	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate			Run: SUB-C97150			02/21/08 06:16		
Aluminum	0.361	mg/L	0.10	144	70	130	26	20	SR
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Thorium 232	0.252	mg/L	0.0010	101	70	130	1.2	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Vanadium	0.271	mg/L	0.10	108	70	130	0.1	20	
Sample ID: MB-17796	Method Blank			Run: SUB-C97150			02/21/08 02:45		
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	0.001	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank			Run: SUB-C97150			02/21/08 02:45		
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0001						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	0.0004	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-17796	Laboratory Control Sample			Run: SUB-C97150			02/21/08 02:52		
Aluminum	0.0183	mg/L	0.10	91	80	120			
Arsenic	0.0201	mg/L	0.0010	100	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Cadmium	0.0196	mg/L	0.010	98	80	120			
Chromium	0.0193	mg/L	0.050	97	80	120			
Copper	0.0199	mg/L	0.010	100	80	120			
Lead	0.0196	mg/L	0.050	98	80	120			
Manganese	0.0195	mg/L	0.010	97	80	120			
Molybdenum	0.0202	mg/L	0.10	95	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Silver	0.0214	mg/L	0.010	107	80	120			
Thorium 232	0.0184	mg/L	0.0010	91	80	120			
Uranium	0.0186	mg/L	0.00030	91	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97150			02/21/08 03:00		
Aluminum	0.0459	mg/L	0.10	92	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			
Nickel	0.0501	mg/L	0.050	100	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Vanadium	0.0497	mg/L	0.10	99	85	115			
Sample ID: MB-17796	Method Blank			Run: SUB-C97226			02/21/08 20:25		
Aluminum	0.2	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97226			02/21/08 20:25			
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	0.1	mg/L	0.002						
Sample ID: LCS1-17796	Laboratory Control Sample		Run: SUB-C97226			02/21/08 20:32			
Aluminum	0.0217	mg/L	0.10	108	80	120			
Arsenic	0.0197	mg/L	0.0010	99	80	120			
Barium	0.0206	mg/L	0.10	103	80	120			
Cadmium	0.0209	mg/L	0.010	104	80	120			
Chromium	0.0187	mg/L	0.050	93	80	120			
Copper	0.0197	mg/L	0.010	98	80	120			
Lead	0.0204	mg/L	0.050	102	80	120			
Manganese	0.0192	mg/L	0.010	96	80	120			
Molybdenum	0.0216	mg/L	0.10	108	80	120			
Nickel	0.0194	mg/L	0.050	97	80	120			
Thorium 232	0.0198	mg/L	0.0010	99	80	120			
Uranium	0.0197	mg/L	0.00030	98	80	120			
Vanadium	0.0191	mg/L	0.10	95	80	120			
Zinc	0.0219	mg/L	0.010	100	80	120			
Sample ID: LCS-17796	Laboratory Control Sample		Run: SUB-C97226			02/21/08 20:39			
Aluminum	0.0536	mg/L	0.10	107	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Thorium 232	0.0509	mg/L	0.0010	102	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97226			02/21/08 20:39		
Vanadium	0.0510	mg/L	0.10	102	85	115			
Zinc	0.0530	mg/L	0.010	102	85	115			
Sample ID: R08020083-003B	Post Digestion Spike			Run: SUB-C97226			02/21/08 21:39		
Aluminum	0.299	mg/L	0.10	115	70	130			
Arsenic	0.265	mg/L	0.0010	106	70	130			
Barium	0.273	mg/L	0.10	103	70	130			
Cadmium	0.256	mg/L	0.010	102	70	130			
Copper	0.254	mg/L	0.010	99	70	130			
Lead	0.264	mg/L	0.050	106	70	130			
Nickel	0.270	mg/L	0.050	100	70	130			
Silver	0.0875	mg/L	0.010	88	70	130			
Thorium 232	0.267	mg/L	0.0010	107	70	130			
Uranium	0.439	mg/L	0.00030	106	70	130			
Zinc	0.264	mg/L	0.020	100	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08020083-003B	Post Digestion Spike Duplicate			Run: SUB-C97226			02/21/08 21:46		
Aluminum	0.395	mg/L	0.10	153	70	130	28	20	SR
Arsenic	0.268	mg/L	0.0010	107	70	130	1.1	20	
Barium	0.273	mg/L	0.10	103	70	130	0.1	20	
Cadmium	0.263	mg/L	0.010	105	70	130	2.7	20	
Copper	0.254	mg/L	0.010	100	70	130	0.1	20	
Lead	0.265	mg/L	0.050	106	70	130	0.2	20	
Nickel	0.265	mg/L	0.050	98	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	20	20	R
Thorium 232	0.266	mg/L	0.0010	106	70	130	0.6	20	
Uranium	0.431	mg/L	0.00030	103	70	130	2.0	20	
Zinc	0.261	mg/L	0.020	99	70	130	1.3	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R97199			
Sample ID: CCB	Method Blank		Run: SUB-C97199			02/21/08 13:16				
Aluminum	0.0003	mg/L	0.0001							
Arsenic	ND	mg/L	0.0002							
Barium	ND	mg/L	8E-05							
Cadmium	ND	mg/L	8E-05							
Chromium	ND	mg/L	0.0002							
Copper	ND	mg/L	6E-05							
Lead	ND	mg/L	3E-05							
Manganese	ND	mg/L	4E-05							
Mercury	ND	mg/L	4E-05							
Molybdenum	ND	mg/L								
Nickel	ND	mg/L	5E-05							
Thorium 232	ND	mg/L	6E-05							
Uranium	ND	mg/L	4E-05							
Vanadium	ND	mg/L	6E-05							
Zinc	ND	mg/L	0.0001							
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97199			02/21/08 13:36				
Aluminum	0.0520	mg/L	0.0010	103	85	115				
Arsenic	0.0520	mg/L	0.0010	104	85	115				
Barium	0.0546	mg/L	0.0010	109	85	115				
Cadmium	0.0540	mg/L	0.0010	108	85	115				
Chromium	0.0523	mg/L	0.0010	105	85	115				
Copper	0.0526	mg/L	0.0010	105	85	115				
Lead	0.0519	mg/L	0.0010	104	85	115				
Manganese	0.0511	mg/L	0.0010	102	85	115				
Mercury	0.00510	mg/L	0.0010	102	85	115				
Molybdenum	0.0551	mg/L	0.0010	110	85	115				
Nickel	0.0517	mg/L	0.0010	103	85	115				
Thorium 232	0.0519	mg/L	0.0010	104	85	115				
Uranium	0.0513	mg/L	0.00030	103	85	115				
Vanadium	0.0526	mg/L	0.0010	105	85	115				
Zinc	0.0565	mg/L	0.0010	113	85	115				
Sample ID: R08020083-002A	Sample Matrix Spike		Run: SUB-C97199			02/21/08 21:39				
Aluminum	102	mg/L	0.10		70	130			A	
Arsenic	0.0550	mg/L	0.0010	101	70	130				
Barium	0.0567	mg/L	0.10	106	70	130				
Cadmium	0.0822	mg/L	0.010	91	70	130				
Chromium	0.0406	mg/L	0.050	55	70	130			S	
Copper	0.178	mg/L	0.010	90	70	130				
Lead	0.0528	mg/L	0.050	103	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97199		
Sample ID: R08020083-002A	Sample Matrix Spike			Run: SUB-C97199			02/21/08 21:39		
Manganese	162	mg/L	0.010		70	130			A
Mercury	0.00485	mg/L	0.0010	97	70	130			
Molybdenum	0.0530	mg/L	0.10	106	70	130			
Nickel	6.31	mg/L	0.050		70	130			A
Thorium 232	0.0665	mg/L	0.0010	107	70	130			
Uranium	7.81	mg/L	0.00030		70	130			A
Vanadium	0.0289	mg/L	0.10	57	70	130			S
Zinc	6.36	mg/L	0.010		70	130			A
Method: E200.8							Batch: C_R97313		
Sample ID: LRB	Method Blank			Run: SUB-C97313			02/22/08 14:40		
Silver	0.0005	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 16:36		
Silver	0.0196	mg/L	0.0010	95	85	115			
Sample ID: R08020083-002A	Post Digestion Spike			Run: SUB-C97313			02/22/08 17:57		
Silver	0.0166	mg/L	0.010	83	70	130			
Sample ID: R08020083-002A	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 18:04		
Silver	0.0149	mg/L	0.010	74	70	130	11	20	
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 14:46		
Silver	0.0153	mg/L	0.0010	74	85	115			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33470		
Sample ID: LFB0802125708-1	Laboratory Fortified Blank			Run: DIONEX_080212A			02/12/08 18:04		
Chloride	4.21	mg/L	0.50	94	90	110			
Fluoride	1.76	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.22	mg/L	0.10	99	90	110			
Sample ID: LFB0802125708-1	Laboratory Fortified Blank			Run: DIONEX_080212A			02/12/08 18:20		
Chloride	4.25	mg/L	0.50	94	90	110			
Fluoride	1.70	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.24	mg/L	0.10	100	90	110			
Sample ID: R08020082-001AMS	Sample Matrix Spike			Run: DIONEX_080212A			02/12/08 18:50		
Chloride	284	mg/L	5.4	71	80	120			S
Fluoride	89.3	mg/L	0.56	89	80	120			
Nitrogen, Nitrate as N	104	mg/L	1.3	83	80	120			
Sample ID: R08020082-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080212A			02/12/08 19:06		
Chloride	292	mg/L	5.4	74	80	120	3.0	10	S
Fluoride	88.8	mg/L	0.56	89	80	120	0.6	10	
Nitrogen, Nitrate as N	101	mg/L	1.3	81	80	120	2.6	10	
Sample ID: R08020094-001AMS	Sample Matrix Spike			Run: DIONEX_080212A			02/12/08 21:55		
Fluoride	2.6	mg/L	0.10	93	80	120			
Sample ID: R08020094-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080212A			02/12/08 22:11		
Fluoride	2.5	mg/L	0.10	92	80	120	0.4	10	
Method: E300.0							Batch: R33510		
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:42		
Chloride	5.60	mg/L	0.50	112	90	110			S
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:57		
Chloride	5.29	mg/L	0.50	106	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0398		
Sample ID: MB-GrAB-0398	Method Blank				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Beta	89	pCi/L	2.0	94	70	130			
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	340	pCi/L	1.0	117	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	370	pCi/L	1.0	127	70	130	8.0	11.9	
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	100	pCi/L	2.0	87	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	110	pCi/L	2.0	92	70	130	5.4	15.5	
Method: E901.1							Batch: C_R97137		
Sample ID: LCS-R97137	Laboratory Control Sample				Run: SUB-C97137			02/19/08 08:48	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2633		
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike 120	pCi/L	0.20	95	70	130			02/25/08 14:45
									Run: SUB-C97303
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike Duplicate 120	pCi/L	0.20	92	70	130	2.6	24.9	02/25/08 14:45
									Run: SUB-C97303
Sample ID: LCS-17792 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	95	70	130			02/25/08 14:45
									Run: SUB-C97303
Sample ID: MB-17792 Radium 226	Method Blank ND	pCi/L	0.2						02/25/08 14:45
									Run: SUB-C97303
Method: E903.0							Batch: C_RA226-2640		
Sample ID: C08020610-001AMS Radium 226	Sample Matrix Spike 15	pCi/L	0.30	92	70	130			03/05/08 06:29
									Run: SUB-C97739
Sample ID: C08020610-001AMSD Radium 226	Sample Matrix Spike Duplicate 15	pCi/L	0.30	92	70	130	0.5	23	03/05/08 07:59
									Run: SUB-C97739
Sample ID: MB-RA226-2640 Radium 226	Method Blank ND	pCi/L							03/05/08 15:31
									Run: SUB-C97739
Sample ID: LCS-RA226-2640 Radium 226	Laboratory Control Sample 5.2	pCi/L	0.10	83	70	130			03/05/08 17:01
									Run: SUB-C97739
Method: E903.0							Batch: C_RA226-2642		
Sample ID: C08020706-001AMS Radium 226	Sample Matrix Spike 7.2	pCi/L	0.20	89	70	130			03/03/08 11:48
									Run: SUB-C97642
Sample ID: C08020706-001AMSD Radium 226	Sample Matrix Spike Duplicate 7.4	pCi/L	0.20	92	70	130	3.2	23.5	03/03/08 11:48
									Run: SUB-C97642
Sample ID: MB-RA226-2642 Radium 226	Method Blank 0.01	pCi/L							03/03/08 13:34
									Run: SUB-C97642
Sample ID: LCS-RA226-2642 Radium 226	Laboratory Control Sample 5.6	pCi/L	0.20	88	70	130			03/03/08 16:21
									Run: SUB-C97642

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/30/08
 Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_17792
Sample ID: LCS-17792	Laboratory Control Sample								Run: SUB-C97814 02/21/08 16:15
Thorium 230	32.7	pCi/g-dry	0.10	67	70	130			S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792	Method Blank								Run: SUB-C97814 02/21/08 16:15
Thorium 230	ND	pCi/g-dry							
Sample ID: C08020475-002BDUP	Sample Duplicate								Run: SUB-C97814 02/21/08 16:15
Thorium 230	8.36	pCi/g-dry	0.10		70	130	9.9	30	
Sample ID: C08020475-002BDUP	Sample Duplicate								Run: SUB-C97814 02/21/08 16:15
Thorium 230	9.67	pCi/g-dry	0.10		70	130	4.6	30	
Method: E907.0									Batch: C_R98194
Sample ID: LCS-R98194	Laboratory Control Sample								Run: SUB-C98194 02/22/08 14:15
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08020548-004HMS	Sample Matrix Spike								Run: SUB-C98194 02/22/08 14:15
Thorium 230	44.3	pCi/L	0.20	93	70	130			
Sample ID: C08020548-004HMSD	Sample Matrix Spike Duplicate								Run: SUB-C98194 02/22/08 14:15
Thorium 230	42.4	pCi/L	0.20	89	70	130	4.4	30	
Sample ID: MB-R98194	Method Blank								Run: SUB-C98194 02/22/08 14:15
Thorium 230		pCi/L							
Method: E907.0									Batch: C_R98195
Sample ID: LCS-R98195	Laboratory Control Sample								Run: SUB-C98195 02/29/08 11:45
Thorium 230	6.70	pCi/L	0.20	96	70	130			
Sample ID: C08020519-002CMS	Sample Matrix Spike								Run: SUB-C98195 02/29/08 11:45
Thorium 230	14.9	pCi/L	0.20	93	70	130			
Sample ID: C08020519-002CMSD	Sample Matrix Spike Duplicate								Run: SUB-C98195 02/29/08 11:45
Thorium 230	15.5	pCi/L	0.20	97	70	130	3.9	30	
Sample ID: MB-R98195	Method Blank								Run: SUB-C98195 02/29/08 11:45
Thorium 230	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Dewey Burdock		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Cory Foreman		Email:	Sampler: (Please Print) Cory Foreman
Invoice Address: RESPEC		Phone/Fax:		Purchase Order:	Quoter/Bottle Order: Matt Stoltenberg
Special Report/Formats - ELL must be notified prior to sample submittal for the following:				Shipped by:	
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:				<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
1 Dew Burd Sub 08		2/10/08	15:10	ANALYSIS REQUESTED As per Quote No lead 210 No Polonium 210	
2 Dew Burd Sub 06		2/10/08	16:10	SEE ATTACHED	
3 Dew Burd Sub 02		2/10/08	17:00	Normal Turnaround (TAT)	
4				RUSH	
5				Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
6				SW Sample Bottle Set 13 Bottle Set 7 Bottle Set 1	
7				Receipt Temp On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.8 °C	
8				Cooled (Y/N): Custody Seal Y/N Intact Y/N Signature Y/N Match Y/N	
9				Received by (print): Steve Foreman Date/Time: 2-11-08 9:00 Signature: <i>[Signature]</i>	
10				Received by Laboratory: Date/Time: Signature:	
Custody Record MUST be Signed Relinquished by (print): Matt Stoltenberg Date/Time: 2-11-08 Signature: <i>[Signature]</i>		Return to Client: Lab Disposal:		Date/Time: Signature:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be sub-contracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

May 08, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08020131 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 2/12/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020131-001	DewBurd CHR05	02/12/08 9:20	02/12/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08020131-002	DewBurd Sub24	02/12/08 9:45	02/12/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-001
 Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
 Collection Date: 02/12/08 09:20
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/13/08 09:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	246	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Bicarbonate as HCO3	300	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Calcium	496	mg/L	D	1		10	E200.7	02/27/08 17:31/eli-c
Chloride	250	mg/L	D	10		100	E300.0	02/15/08 00:26/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/15/08 00:57/sn
Magnesium	113	mg/L		0.5		10	E200.7	02/27/08 17:31/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	02/19/08 12:31/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	02/15/08 00:57/sn
Potassium	5	mg/L		1		1	E200.7	02/27/08 20:15/eli-c
Silica	14.0	mg/L		0.5		1	E200.7	02/27/08 20:15/eli-c
Sodium	200	mg/L	D	0.8		1	E200.7	02/27/08 20:15/eli-c
Sulfate	1730	mg/L	D	7		100	E300.0	02/15/08 00:26/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3320	umhos/cm		5.0		1	A2510 B	02/16/08 15:42/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	02/16/08 15:06/jmh
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	04/15/08 00:00/kl
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	02/20/08 16:29/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	02/19/08 14:28/jmh
Solids, Total Suspended TSS @ 105 C	9	mg/L		5		1	A2540 D	02/15/08 11:07/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	02/27/08 20:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/22/08 19:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/27/08 20:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-001
 Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
 Collection Date: 02/12/08 09:20
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/22/08 19:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Uranium	0.0143	mg/L		0.0003		1	E200.8	02/22/08 19:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 22:16/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:16/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 04:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	02/27/08 20:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 04:37/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/12/08 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 04:37/eli-c
Iron	0.10	mg/L		0.03		1	E200.7	02/27/08 20:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 04:37/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	02/21/08 04:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 04:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Uranium	0.0136	mg/L		0.0003		1	E200.8	02/21/08 04:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/27/08 20:22/eli-c
Calcium	526	mg/L	D	0.8		10	E200.7	02/27/08 18:24/eli-c
Magnesium	115	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c
Potassium	5.1	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c
Silica	16.6	mg/L		0.1		10	E200.7	02/27/08 18:24/eli-c
Sodium	196	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c

METALS - DISSOLVED - SPECIATED

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-001
 Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
 Collection Date: 02/12/08 09:20
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	0.002	mg/L		0.001		1 A3114 B	02/19/08 11:51/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/19/08 09:47/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED							
Selenium	0.003	mg/L		0.001		1 A3114 B	02/19/08 17:15/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/19/08 15:26/eli-c
Selenium-VI	0.002	mg/L		0.001		1 A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	ND	pCi/L		0.2		1 E903.0	03/03/08 11:48/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1 E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	ND	pCi/L		0.2		1 E903.0	02/25/08 13:00/eli-c
Thorium 230	0.3	pCi/L		0.2		1 E907.0	02/21/08 16:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	15.7	pCi/L		1.0		1 E900.0	02/28/08 02:16/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1 E900.0	02/28/08 02:16/eli-c
Gross Beta	7.6	pCi/L		2.0		1 E900.0	02/28/08 02:16/eli-c
Gross Beta precision (±)	7.1	pCi/L				1 E900.0	02/28/08 02:16/eli-c
Gross Gamma	ND	pCi/L		20.0		1 E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	ND	pCi/L				1 E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	ND	pCi/L		0.2		1 E903.0	03/03/08 16:45/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1 E907.0	02/22/08 14:15/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.001		1 E245.1	03/25/08 08:49/eli-b
DATA QUALITY							
A/C Balance (± 5)	-5.77					1 A1030 E	04/15/08 00:00/kl
Anions	48.1	meq/L				1 A1030 E	04/15/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-001
Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
Collection Date: 02/12/08 09:20
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	42.9	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	2950	mg/L				1	A1030 E	04/15/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	04/15/08 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-002
 Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
 Collection Date: 02/12/08 09:45
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/13/08 09:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	88	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Bicarbonate as HCO3	107	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Calcium	249	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Chloride	26	mg/L		1		5	E300.0	02/15/08 01:28/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/15/08 01:43/sn
Magnesium	89.9	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	02/19/08 12:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/15/08 01:43/sn
Potassium	9	mg/L		1		1	E200.7	02/27/08 20:19/eli-c
Silica	9.6	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Sodium	791	mg/L	D	8		10	E200.7	02/27/08 17:48/eli-c
Sulfate	2480	mg/L	D	7		100	E300.0	02/15/08 01:12/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4480	umhos/cm		5.0		1	A2510 B	02/16/08 15:42/jmh
pH	7.54	s.u.		0.01		1	A4500-H B	02/16/08 15:08/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	75	mg/L		5		1	D3977	02/20/08 16:30/jmh
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	02/19/08 14:29/jmh
Solids, Total Suspended TSS @ 105 C	17	mg/L		5		1	A2540 D	02/15/08 11:09/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 20:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/22/08 19:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
Iron	0.07	mg/L		0.03		1	E200.7	02/27/08 20:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-002
 Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
 Collection Date: 02/12/08 09:45
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/22/08 19:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	02/22/08 19:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 22:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:46/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 04:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	02/27/08 20:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 04:45/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/12/08 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 04:45/eli-c
Iron	1.44	mg/L		0.03		1	E200.7	02/27/08 20:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 04:45/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	02/21/08 04:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 04:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Uranium	ND	mg/L		0.0004		1	E200.8	02/21/08 04:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	02/27/08 20:25/eli-c
Calcium	249	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Magnesium	88.1	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Potassium	8.8	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Silica	10.6	mg/L		0.1		10	E200.7	02/27/08 18:40/eli-c
Sodium	767	mg/L	D	5		10	E200.7	02/27/08 18:40/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 8
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020131-002
 Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
 Collection Date: 02/12/08 09:45
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1 A3114 B	02/19/08 11:53/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/19/08 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1 A3114 B	02/19/08 17:17/eli-c
Selenium-IV	0.001	mg/L		0.001		1 A3114 B	02/19/08 15:28/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.8	pCi/L		0.2		1 E903.0	03/03/08 11:48/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/03/08 11:48/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	ND	pCi/L		0.2		1 E903.0	02/25/08 13:00/eli-c
Thorium 230	1.4	pCi/L		0.2		1 E907.0	03/06/08 16:15/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	03/06/08 16:15/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	10.2	pCi/L		1.0		1 E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Gross Beta	9.3	pCi/L		2.0		1 E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	9.5	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0		1 E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	ND	pCi/L				1 E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	0.9	pCi/L		0.2		1 E903.0	03/03/08 18:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/03/08 18:16/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.001		1 E245.1	03/25/08 08:52/eli-b
DATA QUALITY							
A/C Balance (± 5)	0.400					1 A1030 E	04/15/08 00:00/lkl
Anions	54.1	meq/L				1 A1030 E	04/15/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-002
Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
Collection Date: 02/12/08 09:45
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	54.5	meq/L				1	A1030 E	04/15/08 00:00/kl
Solids, Total Dissolved Calculated	3690	mg/L				1	A1030 E	04/15/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	04/15/08 00:00/kl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080221A-ALK-SEL-W	
Sample ID: MBLK1_080221A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3				Run: PH_COND1-R_080221A		02/21/08 16:26
Sample ID: LCS1_080221A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110	Run: PH_COND1-R_080221A		02/21/08 16:28
Sample ID: R08020143-002BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 380	mg/L	5.0	96	80	120	Run: PH_COND1-R_080221A		02/21/08 16:57
Sample ID: R08020143-002BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 380	mg/L	5.0	96	80	120	Run: PH_COND1-R_080221A	0.0	02/21/08 17:00 20
Method: A2510 B								Batch: 080216_1_COND-PROBE-W	
Sample ID: LCS1-1_080216 Conductivity @ 25 C	Laboratory Control Sample 154	umhos/cm	5.0	103	90	110	Run: PH_COND2-R_080216A		02/16/08 15:21
Sample ID: LCS2-1_080216 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110	Run: PH_COND2-R_080216A		02/16/08 15:21
Sample ID: LCS_COND-1_080216 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110	Run: PH_COND2-R_080216A		02/16/08 15:22
Sample ID: MBLK-1_080216 Conductivity @ 25 C	Method Blank ND	umhos/cm	5				Run: PH_COND2-R_080216A		02/16/08 15:22
Sample ID: R08020131-002CDUP Conductivity @ 25 C	Sample Duplicate 4510	umhos/cm	5.0				Run: PH_COND2-R_080216A	0.7	02/16/08 15:44 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080219A-SLDS-TDS-W		
Sample ID: MBLK1_080219A	Method Blank								Run: BAL-4-R_080219A 02/19/08 14:17
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080219A	Laboratory Control Sample								Run: BAL-4-R_080219A 02/19/08 14:18
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R08020130-001AMS	Sample Matrix Spike								Run: BAL-4-R_080219A 02/19/08 14:21
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	95	80	120			
Sample ID: R08020130-001AMSD	Sample Matrix Spike Duplicate								Run: BAL-4-R_080219A 02/19/08 14:23
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	89	80	120	0.9	10	
Sample ID: R08020180-001BMS	Sample Matrix Spike								Run: BAL-4-R_080219A 02/19/08 14:36
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	97	80	120			
Sample ID: R08020180-001BMSD	Sample Matrix Spike Duplicate								Run: BAL-4-R_080219A 02/19/08 14:37
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	106	80	120	4.2	10	
Method: A2540 D							Batch: 080215A-SLDS-TSS-W		
Sample ID: MBLK1_080215A	Method Blank								Run: BAL-4-R_080215A 02/15/08 10:56
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080215A	Laboratory Control Sample								Run: BAL-4-R_080215A 02/15/08 10:57
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	108	85	115			
Sample ID: R08020131-001CDUP	Sample Duplicate								Run: BAL-4-R_080215A 02/15/08 11:08
Solids, Total Suspended TSS @ 105 C	8.0	mg/L	5.0				12	20	
Method: A3114 B							Batch: C_R97081		
Sample ID: C08020402-001EMS	Sample Matrix Spike								Run: SUB-C97081 02/19/08 12:26
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate								Run: SUB-C97081 02/19/08 12:26
Selenium-VI	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B							Batch: C_R97115		
Sample ID: C08020551-001HMS	Sample Matrix Spike								Run: SUB-C97115 02/19/08 17:37
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate								Run: SUB-C97115 02/19/08 17:37
Selenium-VI	0.048	mg/L	0.0010	96	85	115	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-021908D		
Sample ID: MBLK	Method Blank					Run: SUB-C97114			02/19/08 16:21
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample					Run: SUB-C97114			02/19/08 16:37
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020551-001HMS	Sample Matrix Spike					Run: SUB-C97114			02/19/08 17:26
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-C97114			02/19/08 17:28
Selenium	0.049	mg/L	0.0010	98	85	115	2.9	10	
Method: A3114 B							Batch: C_SE3114-080219		
Sample ID: MBLK	Method Blank					Run: SUB-C97079			02/19/08 11:44
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample					Run: SUB-C97079			02/19/08 11:47
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike					Run: SUB-C97079			02/19/08 12:10
Selenium	0.048	mg/L	0.0010	96	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate					Run: SUB-C97079			02/19/08 12:12
Selenium	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B							Batch: C_SEIV3114-021908C		
Sample ID: MBLK	Method Blank					Run: SUB-C97108			02/19/08 15:22
Selenium-IV	0.0003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample					Run: SUB-C97108			02/19/08 15:24
Selenium-IV	0.052	mg/L	0.0010	104	90	110			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-C97108			02/19/08 15:39
Selenium-IV	0.047	mg/L	0.0010	94	85	115	1.4	10	
Sample ID: R08020083-001H	Sample Matrix Spike					Run: SUB-C97108			02/19/08 15:41
Selenium-IV	0.048	mg/L	0.0010	96	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-080219		
Sample ID: MBLK Selenium-IV	Method Blank 0.003	mg/L	6E-05				Run: SUB-C97072		02/19/08 09:27
Sample ID: 288-30-5 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	102	90	110	Run: SUB-C97072		02/19/08 09:43
Sample ID: C08020402-001EMS Selenium-IV	Sample Matrix Spike 0.089	mg/L	0.0010	177	85	115	Run: SUB-C97072		02/19/08 10:20 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.085	mg/L	0.0010	169	85	115	Run: SUB-C97072	5.0	10 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: A3500-Cr B							Batch: R33559		
Sample ID: MLBK_021208 Chromium, Hexavalent	Method Blank ND	mg/L	0.005				Run: SPEC1_080212A		02/12/08 00:00
Sample ID: LCS_021208 Chromium, Hexavalent	Laboratory Control Sample 0.20	mg/L	0.0050	100	80	120	Run: SPEC1_080212A		02/12/08 00:00
Sample ID: R08020131-001E MS Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	95	80	120	Run: SPEC1_080212A		02/12/08 00:00
Sample ID: R08020131-002E MS Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	95	80	120	Run: SPEC1_080212A		02/12/08 00:00
Method: A4500-H B							Batch: 080216_1_PH-W		
Sample ID: LCS_pH-1_080216 pH	Laboratory Control Sample 6.93	s.u.	0.010	101	98.55	101.45	Run: PH_COND2-R_080216A		02/16/08 14:56
Sample ID: R08020131-002CDUP pH	Sample Duplicate 7.54	s.u.	0.010				Run: PH_COND2-R_080216A	0.0	1.25

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-02-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080219A		02/19/08 11:22
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110	Run: TECHAA2-R_080219A		02/19/08 11:24
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	94	90	110	Run: TECHAA2-R_080219A		02/19/08 11:25
Sample ID: R08020157-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.34	mg/L	0.10	88	80	120	Run: TECHAA2-R_080219A		02/19/08 12:45
Sample ID: R08020157-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.31	mg/L	0.10	73	80	120	Run: TECHAA2-R_080219A	11	02/19/08 12:47 SR
Method: A9222 D							Batch: 080213-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml	1				Run: MEMFILT_080212A		02/13/08 09:20

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97399			02/26/08 12:13			
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17796	Laboratory Control Sample		Run: SUB-C97440			02/27/08 15:39			
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Zinc	0.561	mg/L	0.010	112	85	115			
Calcium	52.3	mg/L	0.50	105	85	115			
Magnesium	50.1	mg/L	0.50	100	85	115			
Potassium	51.4	mg/L	0.50	103	85	115			
Sodium	52.2	mg/L	0.53	104	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike		Run: SUB-C97440			02/27/08 18:27			
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Zinc	9.71	mg/L	0.014	97	70	130			
Calcium	929	mg/L	0.79	81	70	130			
Magnesium	555	mg/L	0.80	87	70	130			
Potassium	1160	mg/L	0.50	96	70	130			
Sodium	654	mg/L	5.3	89	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate		Run: SUB-C97440			02/27/08 18:30			
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Zinc	9.90	mg/L	0.014	99	70	130	1.9	20	
Calcium	954	mg/L	0.79	86	70	130	2.7	20	
Magnesium	572	mg/L	0.80	90	70	130	3.0	20	
Potassium	1160	mg/L	0.50	97	70	130	0.1	20	
Sodium	654	mg/L	5.3	89	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97440		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:40		
Silica	2.0	mg/L	0.10	100	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:43		
Calcium	24	mg/L	0.50	96	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97440			02/27/08 13:50		
Silica	ND	mg/L	0.10						
Boron	0.015	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Potassium	0.045	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Sample ID: C08020547-001AMS	Sample Matrix Spike			Run: SUB-C97440			02/27/08 17:35		
Boron	10.2	mg/L	0.10	100	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Calcium	914	mg/L	1.0	84	70	130			
Magnesium	558	mg/L	0.50	89	70	130			
Potassium	1140	mg/L	0.50	94	70	130			
Silica	23.1	mg/L	0.20	93	70	130			
Sodium	638	mg/L	7.6	89	70	130			
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97440			02/27/08 17:38		
Boron	10.3	mg/L	0.10	101	70	130	1.3	20	
Iron	9.72	mg/L	0.046	97	70	130	0.1	20	
Calcium	902	mg/L	1.0	81	70	130	1.3	20	
Magnesium	552	mg/L	0.50	88	70	130	1.1	20	
Potassium	1130	mg/L	0.50	94	70	130	0.4	20	
Silica	22.9	mg/L	0.20	92	70	130	0.6	20	
Sodium	627	mg/L	7.6	87	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17792		
Sample ID: MB-17792	Method Blank					Run: SUB-C97226			02/21/08 21:54
Thorium 232	8E-05	mg/L	1E-06						
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample					Run: SUB-C97226			02/21/08 22:01
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike					Run: SUB-C97226			02/21/08 23:45
Thorium 232	0.0251	mg/L	0.0010	100	70	130			
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate					Run: SUB-C97226			02/21/08 23:53
Thorium 232	0.0247	mg/L	0.0010	99	70	130	1.5	20	
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: R08020083-003B	Post Digestion Spike		Run: SUB-C97150				02/21/08 06:08		
Aluminum	0.276	mg/L	0.10	110	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Thorium 232	0.249	mg/L	0.0010	100	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Vanadium	0.271	mg/L	0.10	108	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate		Run: SUB-C97150				02/21/08 06:16		
Aluminum	0.361	mg/L	0.10	144	70	130	26	20	SR
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Thorium 232	0.252	mg/L	0.0010	101	70	130	1.2	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Vanadium	0.271	mg/L	0.10	108	70	130	0.1	20	
Sample ID: MB-17796	Method Blank		Run: SUB-C97150				02/21/08 02:45		
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	0.001	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97150			02/21/08 02:45			
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0001						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	0.0004	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-17796	Laboratory Control Sample		Run: SUB-C97150			02/21/08 02:52			
Aluminum	0.0183	mg/L	0.10	91	80	120			
Arsenic	0.0201	mg/L	0.0010	100	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Cadmium	0.0196	mg/L	0.010	98	80	120			
Chromium	0.0193	mg/L	0.050	97	80	120			
Copper	0.0199	mg/L	0.010	100	80	120			
Lead	0.0196	mg/L	0.050	98	80	120			
Manganese	0.0195	mg/L	0.010	97	80	120			
Molybdenum	0.0202	mg/L	0.10	95	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Silver	0.0214	mg/L	0.010	107	80	120			
Thorium 232	0.0184	mg/L	0.0010	91	80	120			
Uranium	0.0186	mg/L	0.00030	91	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Sample ID: LCS-17796	Laboratory Control Sample		Run: SUB-C97150			02/21/08 03:00			
Aluminum	0.0459	mg/L	0.10	92	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			
Nickel	0.0501	mg/L	0.050	100	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Vanadium	0.0497	mg/L	0.10	99	85	115			
Sample ID: MB-17796	Method Blank		Run: SUB-C97226			02/21/08 20:25			
Aluminum	0.2	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97226			02/21/08 20:25			
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS-17796	Laboratory Control Sample		Run: SUB-C97226			02/21/08 20:39			
Aluminum	0.0536	mg/L	0.10	107	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Thorium 232	0.0509	mg/L	0.0010	102	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Vanadium	0.0510	mg/L	0.10	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: LRB	Method Blank		Run: SUB-C97313			02/22/08 14:40			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	0.0002	mg/L	3E-05						
Cadmium	2E-05	mg/L	1E-05						
Chromium	7E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0005	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.01	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97313			02/22/08 16:36			
Aluminum	0.0540	mg/L	0.0010	108	85	115			
Arsenic	0.0506	mg/L	0.0010	101	85	115			
Barium	0.0509	mg/L	0.0010	101	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Chromium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00494	mg/L	0.0010	99	85	115			
Molybdenum	0.0563	mg/L	0.0010	113	85	115			
Nickel	0.0503	mg/L	0.0010	101	85	115			
Silver	0.0196	mg/L	0.0010	95	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0510	mg/L	0.00030	102	85	115			
Vanadium	0.0504	mg/L	0.0010	101	85	115			
Zinc	0.0523	mg/L	0.0010	84	85	115			S
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97313			02/22/08 14:46			
Aluminum	0.0534	mg/L	0.0010	107	85	115			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Barium	0.0498	mg/L	0.0010	99	85	115			
Cadmium	0.0516	mg/L	0.0010	103	85	115			
Chromium	0.0507	mg/L	0.0010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 14:46		
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0507	mg/L	0.0010	101	85	115			
Manganese	0.0502	mg/L	0.0010	100	85	115			
Mercury	0.00502	mg/L	0.0010	100	85	115			
Molybdenum	0.0540	mg/L	0.0010	108	85	115			
Nickel	0.0502	mg/L	0.0010	100	85	115			
Silver	0.0153	mg/L	0.0010	74	85	115			S
Thorium 232	0.0503	mg/L	0.0010	101	85	115			
Uranium	0.0505	mg/L	0.00030	101	85	115			
Vanadium	0.0508	mg/L	0.0010	102	85	115			
Zinc	0.0708	mg/L	0.0010	121	85	115			S
Sample ID: C08020548-001CMS4	Post Digestion Spike			Run: SUB-C97313			02/22/08 19:46		
Aluminum	0.0521	mg/L	0.10	104	70	130			
Arsenic	0.0512	mg/L	0.0010	101	70	130			
Barium	0.0608	mg/L	0.10	103	70	130			
Cadmium	0.0481	mg/L	0.010	96	70	130			
Chromium	0.0491	mg/L	0.050	94	70	130			
Copper	0.0460	mg/L	0.010	91	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.136	mg/L	0.010	85	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0556	mg/L	0.10	109	70	130			
Nickel	0.0468	mg/L	0.050	94	70	130			
Silver	0.0169	mg/L	0.010	84	70	130			
Thorium 232	0.0542	mg/L	0.0010	108	70	130			
Uranium	0.0548	mg/L	0.00030	109	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0482	mg/L	0.010	98	70	130			
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 19:53		
Aluminum	0.0499	mg/L	0.10	100	70	130	0.0	20	
Arsenic	0.0497	mg/L	0.0010	98	70	130	2.9	20	
Barium	0.0595	mg/L	0.10	100	70	130	0.0	20	
Cadmium	0.0482	mg/L	0.010	96	70	130	0.2	20	
Chromium	0.0493	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0456	mg/L	0.010	91	70	130	0.9	20	
Lead	0.0510	mg/L	0.050	102	70	130	1.9	20	
Manganese	0.138	mg/L	0.010	88	70	130	1.4	20	
Mercury	0.00513	mg/L	0.0010	102	70	130	1.9	20	
Molybdenum	0.0548	mg/L	0.10	108	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 19:53		
Nickel	0.0469	mg/L	0.050	94	70	130	0.0	20	
Silver	0.0170	mg/L	0.010	85	70	130	0.4	20	
Thorium 232	0.0540	mg/L	0.0010	108	70	130	0.2	20	
Uranium	0.0542	mg/L	0.00030	108	70	130	1.1	20	
Vanadium	0.0501	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0452	mg/L	0.010	92	70	130	6.4	20	
Sample ID: C08020583-002AMS	Sample Matrix Spike			Run: SUB-C97313			02/23/08 03:28		
Copper	0.0729	mg/L	0.010	99	70	130			
Lead	0.0510	mg/L	0.0010	102	70	130			
Sample ID: C08020583-002AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97313			02/23/08 03:35		
Copper	0.0713	mg/L	0.010	96	70	130	2.2	20	
Lead	0.0495	mg/L	0.0010	99	70	130	3.1	20	
Method: E245.1							Batch: C_B_31545		
Sample ID: MB-31545	Method Blank			Run: SUB-C98680			03/25/08 08:12		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31545	Laboratory Fortified Blank			Run: SUB-C98680			03/25/08 08:33		
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08031522-006DMS	Sample Matrix Spike			Run: SUB-C98680			03/25/08 08:38		
Mercury	0.0016	mg/L	0.0010	82	70	130			
Sample ID: B08031522-006DMSD	Sample Matrix Spike Duplicate			Run: SUB-C98680			03/25/08 08:40		
Mercury	0.0017	mg/L	0.0010	84	70	130	1.8	30	
Sample ID: B08031535-002BMS	Sample Matrix Spike			Run: SUB-C98680			03/25/08 09:11		
Mercury	0.0017	mg/L	0.0010	82	70	130			
Sample ID: B08031535-002BMSD	Sample Matrix Spike Duplicate			Run: SUB-C98680			03/25/08 09:16		
Mercury	0.0020	mg/L	0.0010	95	70	130	14	30	
Method: E245.1							Analytical Run: SUB-C98680		
Sample ID: QCS	Initial Calibration Verification Standard						03/25/08 07:54		
Mercury	0.0019	mg/L	0.0010	93	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33510		
Sample ID: LFB0802130124-1	Laboratory Fortified Blank					Run: DIONEX_080214A	02/14/08 15:42		
Chloride	5.60	mg/L	0.50	112	90	110			S
Fluoride	2.13	mg/L	0.10	106	90	110			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank					Run: DIONEX_080214A	02/14/08 15:57		
Chloride	5.29	mg/L	0.50	106	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08020138-002AMS	Sample Matrix Spike					Run: DIONEX_080214A	02/15/08 02:14		
Chloride	294	mg/L	0.54		80	120			A
Fluoride	10.3	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	34.8	mg/L	0.13	90	80	120			
Sulfate	1330	mg/L	1.0		80	120			A
Sample ID: R08020138-002AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080214A	02/15/08 09:43		
Chloride	294	mg/L	0.54		80	120	0.0	10	A
Fluoride	11.1	mg/L	0.10	101	80	120	7.0	10	
Nitrogen, Nitrate as N	34.6	mg/L	0.13	89	80	120	0.6	10	
Sulfate	1320	mg/L	1.0		80	120	0.4	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0398		
Sample ID: MB-GrAB-0398	Method Blank					Run: SUB-C97539			02/28/08 02:15
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0398	Laboratory Control Sample					Run: SUB-C97539			02/28/08 02:16
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0398	Laboratory Control Sample					Run: SUB-C97539			02/28/08 02:16
Gross Beta	89	pCi/L	2.0	94	70	130			
Sample ID: C08020423-001AMS	Sample Matrix Spike					Run: SUB-C97539			02/28/08 02:16
Gross Alpha	340	pCi/L	1.0	117	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97539			02/28/08 02:15
Gross Alpha	370	pCi/L	1.0	127	70	130	8.0	11.9	
Sample ID: C08020423-001AMS	Sample Matrix Spike					Run: SUB-C97539			02/28/08 02:15
Gross Beta	100	pCi/L	2.0	87	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97539			02/28/08 02:15
Gross Beta	110	pCi/L	2.0	92	70	130	5.4	15.5	
Method: E901.1							Batch: C_R97137		
Sample ID: LCS-R97137	Laboratory Control Sample					Run: SUB-C97137			02/19/08 08:48
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank					Run: SUB-C97137			02/19/08 08:48
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate					Run: SUB-C97137			02/19/08 08:48
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2633		
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike 120	pCi/L	0.20	95	70	130			02/25/08 14:45
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike Duplicate 120	pCi/L	0.20	92	70	130	2.6	24.9	02/25/08 14:45
Sample ID: LCS-17792 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	95	70	130			02/25/08 14:45
Sample ID: MB-17792 Radium 226	Method Blank ND	pCi/L	0.2						02/25/08 14:45
Method: E903.0							Batch: C_RA226-2639		
Sample ID: C08020692-001AMS Radium 226	Sample Matrix Spike 9.7	pCi/L	0.20	81	70	130			03/04/08 04:52
Sample ID: C08020692-001AMSD Radium 226	Sample Matrix Spike Duplicate 10	pCi/L	0.20	92	70	130	6.8	22.2	03/04/08 06:22
Sample ID: MB-RA226-2639 Radium 226	Method Blank ND	pCi/L							03/04/08 07:52
Sample ID: LCS-RA226-2639 Radium 226	Laboratory Control Sample 12	pCi/L	0.40	93	70	130			03/04/08 09:23
Method: E903.0							Batch: C_RA226-2642		
Sample ID: C08020706-001AMS Radium 226	Sample Matrix Spike 7.2	pCi/L	0.20	89	70	130			03/03/08 11:48
Sample ID: C08020706-001AMSD Radium 226	Sample Matrix Spike Duplicate 7.4	pCi/L	0.20	92	70	130	3.2	23.5	03/03/08 11:48
Sample ID: MB-RA226-2642 Radium 226	Method Blank 0.01	pCi/L							03/03/08 13:34
Sample ID: LCS-RA226-2642 Radium 226	Laboratory Control Sample 5.6	pCi/L	0.20	88	70	130			03/03/08 16:21

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_17792		
Sample ID: R08020131-001K	Sample Duplicate				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	0.332	pCi/L	0.20		70	130	15	30	
Sample ID: LCS-17792	Laboratory Control Sample				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	32.7	pCi/g-dry	0.10	67	70	130			S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792	Method Blank				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	ND	pCi/g-dry							
Method: E907.0							Batch: C_R98194		
Sample ID: LCS-R98194	Laboratory Control Sample				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08020548-004HMS	Sample Matrix Spike				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	44.3	pCi/L	0.20	93	70	130			
Sample ID: C08020548-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	42.4	pCi/L	0.20	89	70	130	4.4	30	
Sample ID: MB-R98194	Method Blank				Run: SUB-C98194			02/22/08 14:15	
Thorium 230		pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible.
Refer to corresponding notes on reverse side.



Company Name: RESPEC Report Address: PO Box 725 Rapid City, SD 57709 Invoice Address:		Project Name, PWS #, Permit #, Etc.: Dewey - Burdock Contact Name, Phone, Fax, E-mail: Cory Foreman 394-6400 Sampler Name if other than Contact: Crystal Hocking Matt Stoltenberg Purchase Order #: ELI Quote #:	
Report Required For: POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/> Other _____ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ EDO/EDT <input type="checkbox"/> Format _____		ANALYSIS REQUESTED AS per the Quote	
Sample Identification (Name, Location, Interval, etc.) 1 SW CHROS 2/12/08 9:20 W 2 SW Sub 24 2/12/08 9:45 W 3 4 5 6 7 8 9 10		Number of Containers Sample Type: A W S V U Air Water Soil/Solids Vegetation Line Other MATRIX W W SEE ATTACHED Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: RUSH Turnaround (TAT) Normal Turnaround (TAT) Lab ID 29020131-01 002	
Receipt Temp 3.9 °C Cooler ID(s) ic-4 Custody Seal Y N Intact Y N Signature Y N Match Y N		Received by: Shipped by: Crystal M Hocking Date/Time: 12/2/08 3:50 Shipped by: [Signature] Date/Time: 12/2/08 15:38 Sample Type: _____ # of fractions: _____ LABORATORY USE ONLY	



ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08030091 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 3/10/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030091-001	DewBurd CHR05	03/09/08 9:00	03/10/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08030091-002	DewBurd BVC04	03/09/08 11:05	03/10/08	Aqueous	Same As Above
R08030091-003	DewBurd BVC04	03/09/08 11:15	03/10/08	Aqueous	Same As Above
R08030091-004	DewBurd CHR01	03/09/08 14:15	03/10/08	Aqueous	Same As Above
R08030091-005	DewBurd BVC01	03/09/08 15:15	03/10/08	Aqueous	Same As Above
R08030091-006	DewBurd BLK01	03/09/08 17:35	03/10/08	Aqueous	Same As Above



As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

A handwritten signature in black ink, appearing to read "Linda Lan", written over a horizontal line.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
 Collection Date: 03/09/08 09:00
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	32	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Bicarbonate as HCO3	112	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Calcium	152	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Chloride	232	mg/L	D	5		50	E300.0	03/12/08 09:21/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 10:09/jmh
Magnesium	34.2	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:22/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 10:09/jmh
Potassium	6	mg/L		1		5	E200.7	04/10/08 20:16/eli-b
Sodium	197	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Sulfate	463	mg/L	D	3		50	E300.0	03/12/08 09:21/jmh
Silica	5.6	mg/L		0.2		5	E200.7	04/10/08 20:16/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1810	umhos/cm		5.0		1	A2510 B	03/12/08 15:25/jmh
pH	7.67	s.u.		0.01		1	A4500-H B	03/12/08 12:47/jmh
Sodium Adsorption Ratio (SAR)	3.8	Unitless		0.10		1	Calculation	04/10/08 20:16/krs
Solids, Suspended Sediment SSC @ 105 C	197	mg/L		5		1	D3977	03/10/08 12:21/jmh
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	03/10/08 12:47/jmh
Solids, Total Suspended TSS @ 105 C	220	mg/L		5		1	A2540 D	03/11/08 14:11/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:16/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:16/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:16/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
 Collection Date: 03/09/08 09:00
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Uranium	0.0039	mg/L		0.0003		1	E200.8	04/04/08 01:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
METALS - SUSPENDED								
Thorium 232	0.003	mg/L		0.001		1	E200.8	03/28/08 18:18/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	03/28/08 18:18/eli-c
METALS - TOTAL								
Aluminum	8.8	mg/L		0.1		2	E200.7	04/12/08 01:49/eli-b
Arsenic	0.003	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Boron	0.1	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 19:28/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Iron	6.92	mg/L		0.03		2	E200.7	04/12/08 01:49/eli-b
Lead	0.006	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Manganese	0.21	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 19:28/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Uranium	0.0043	mg/L		0.0003		1	E200.8	04/11/08 19:28/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Zinc	0.03	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Calcium	148	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Magnesium	35.3	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Potassium	6.9	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Sodium	196	mg/L	D	2		2	E200.7	04/12/08 01:49/eli-b
Silica	48.3	mg/L		0.2		2	E200.7	04/12/08 01:49/eli-b

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
 Collection Date: 03/09/08 09:00
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	0.002	mg/L		0.001			1	A3114 B	03/19/08 11:07/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:10/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED									
Selenium	0.002	mg/L		0.001			1	A3114 B	03/19/08 11:29/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:33/eli-c
Selenium-VI	0.002	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	0.07	pCi/L	U				1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	1.8	pCi/L					1	E903.0	04/01/08 11:46/eli-c
Radium 226 precision (±)	1	pCi/L					1	E903.0	04/01/08 11:46/eli-c
Radium 226 MDC	1.3	pCi/L					1	E903.0	04/01/08 11:46/eli-c
Thorium 230	1.4	pCi/L		0.2			1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	4.0	pCi/L	U				1	E900.0	04/02/08 04:03/eli-c
Gross Alpha precision (±)	3.7	pCi/L					1	E900.0	04/02/08 04:03/eli-c
Gross Alpha MDC	5.7	pCi/L					1	E900.0	04/02/08 04:03/eli-c
Gross Beta	4.8	pCi/L	U				1	E900.0	04/02/08 04:03/eli-c
Gross Beta precision (±)	3.4	pCi/L					1	E900.0	04/02/08 04:03/eli-c
Gross Beta MDC	5.6	pCi/L					1	E900.0	04/02/08 04:03/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	1.8	pCi/L					1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	1	pCi/L					1	E903.0	04/21/08 13:54/eli-c
Thorium 230	1.5	pCi/L		0.2			1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
 Collection Date: 03/09/08 09:00
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.0001		1 E245.1	03/24/08 12:27/eli-b
DATA QUALITY							
A/C Balance (± 5)	2.67	%				1 A1030 E	05/08/08 09:29/krs
Anions	18.1	meq/L				1 A1030 E	05/08/08 09:29/krs
Cations	19.1	meq/L				1 A1030 E	05/08/08 09:29/krs
Solids, Total Dissolved Calculated	1160	mg/L				1 A1030 E	05/08/08 09:29/krs
TDS Balance (0.80 - 1.20)	1.04	dec. %				1 A1030 E	05/08/08 09:29/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-002
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:05
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	32	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Calcium	225	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Chloride	339	mg/L	D	5		50	E300.0	03/12/08 10:25/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 10:41/jmh
Magnesium	53.3	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:23/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 10:41/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:36/eli-b
Sodium	280	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Sulfate	681	mg/L	D	3		50	E300.0	03/12/08 10:25/jmh
Silica	7.4	mg/L		0.2		5	E200.7	04/10/08 20:36/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2640	umhos/cm		5.0		1	A2510 B	03/12/08 15:30/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	03/12/08 13:23/jmh
Sodium Adsorption Ratio (SAR)	4.3	Unitless		0.10		1	Calculation	04/10/08 20:36/krs
Solids, Suspended Sediment SSC @ 105 C	323	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	03/10/08 12:48/jmh
Solids, Total Suspended TSS @ 105 C	270	mg/L		5		1	A2540 D	03/11/08 14:11/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:36/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/10/08 20:36/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:36/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-002
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:05
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	04/04/08 01:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
METALS - SUSPENDED								
Thorium 232	0.004	mg/L		0.001		1	E200.8	03/28/08 18:25/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	03/28/08 18:25/eli-c
METALS - TOTAL								
Aluminum	9.9	mg/L		0.1		2	E200.7	04/12/08 01:53/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Boron	0.1	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:08/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Iron	8.65	mg/L		0.03		2	E200.7	04/12/08 01:53/eli-b
Lead	0.007	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Manganese	0.28	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:08/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Thorium 232	0.005	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Uranium	0.0061	mg/L		0.0003		1	E200.8	04/11/08 20:08/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Zinc	0.06	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Calcium	217	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Magnesium	53.5	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Potassium	6.6	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Sodium	273	mg/L	D	2		2	E200.7	04/12/08 01:53/eli-b
Silica	54.5	mg/L		0.2		2	E200.7	04/12/08 01:53/eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-002
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:05
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:13/eli-c
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	03/19/08 09:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:35/eli-c
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	03/19/08 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.08	pCi/L	U			1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	2.5	pCi/L	U			1	E903.0	05/16/08 09:52/eli-c
Radium 226 precision (±)	2.0	pCi/L				1	E903.0	05/16/08 09:52/eli-c
Radium 226 MDC	2.8	pCi/L				1	E903.0	05/16/08 09:52/eli-c
Thorium 230	0.3	pCi/L	U	0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.7	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	8.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	-2	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	4.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	7.1	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.1	pCi/L	U			1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-002
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:05
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:29/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.30	%				1	A1030 E	05/08/08 09:39/krs
Anions	26.1	meq/L				1	A1030 E	05/08/08 09:39/krs
Cations	27.9	meq/L				1	A1030 E	05/08/08 09:39/krs
Solids, Total Dissolved Calculated	1680	mg/L				1	A1030 E	05/08/08 09:39/krs
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	05/08/08 09:39/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-003
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	36	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	116	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Bicarbonate as HCO3	141	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Calcium	220	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Chloride	364	mg/L	D	5		50	E300.0	03/12/08 10:57/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/12/08 11:13/jmh
Magnesium	51.9	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:24/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 11:13/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:45/eli-b
Sodium	266	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Sulfate	736	mg/L	D	3		50	E300.0	03/12/08 10:57/jmh
Silica	7.2	mg/L		0.2		5	E200.7	04/10/08 20:45/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	03/12/08 15:29/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	03/12/08 13:23/jmh
Sodium Adsorption Ratio (SAR)	4.2	Unitless		0.10		1	Calculation	04/10/08 20:45/kr
Solids, Suspended Sediment SSC @ 105 C	326	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	03/10/08 12:48/jmh
Solids, Total Suspended TSS @ 105 C	290	mg/L		5		1	A2540 D	03/11/08 14:12/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:45/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:15/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:45/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:15/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:45/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-003
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 04/04/08 01:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/04/08 01:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/04/08 01:15/eli-c
Uranium	0.0055	mg/L		0.0003		1	E200.8 04/04/08 01:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 04/04/08 01:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 04/04/08 01:15/eli-c
METALS - SUSPENDED							
Thorium 232	0.004	mg/L		0.001		1	E200.8 03/28/08 18:31/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8 03/28/08 18:31/eli-c
METALS - TOTAL							
Aluminum	8.3	mg/L		0.1		2	E200.7 04/12/08 01:57/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8 04/11/08 20:22/eli-b
Barium	ND	mg/L		0.1		1	E200.8 04/11/08 20:22/eli-b
Boron	0.1	mg/L		0.1		1	E200.8 04/11/08 20:22/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8 04/11/08 20:22/eli-b
Chromium	ND	mg/L		0.05		1	E200.8 04/11/08 20:22/eli-b
Chromium, Hexavalent	0.008	mg/L		0.005		1	A3500-Cr B 03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8 04/11/08 20:22/eli-b
Iron	8.28	mg/L		0.03		2	E200.7 04/12/08 01:57/eli-b
Lead	0.008	mg/L		0.001		1	E200.8 04/11/08 20:22/eli-b
Manganese	0.29	mg/L		0.01		1	E200.8 04/11/08 20:22/eli-b
Mercury	ND	mg/L		0.001		1	E200.8 04/11/08 20:22/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8 04/11/08 20:22/eli-b
Nickel	ND	mg/L		0.05		1	E200.8 04/11/08 20:22/eli-b
Silver	ND	mg/L		0.005		1	E200.8 04/11/08 20:22/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8 04/11/08 20:22/eli-b
Uranium	0.0062	mg/L		0.0003		1	E200.8 04/11/08 20:22/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8 04/11/08 20:22/eli-b
Zinc	0.04	mg/L		0.01		1	E200.8 04/11/08 20:22/eli-b
Calcium	223	mg/L		0.5		2	E200.7 04/12/08 01:57/eli-b
Magnesium	54.8	mg/L		0.5		2	E200.7 04/12/08 01:57/eli-b
Potassium	6.4	mg/L		0.5		2	E200.7 04/12/08 01:57/eli-b
Sodium	277	mg/L	D	2		2	E200.7 04/12/08 01:57/eli-b
Silica	46.3	mg/L		0.2		2	E200.7 04/12/08 01:57/eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-003
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	0.001	mg/L		0.001			1	A3114 B	03/19/08 11:16/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:18/eli-c
Selenium-VI	0.001	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED									
Selenium	0.002	mg/L		0.001			1	A3114 B	03/19/08 11:38/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:42/eli-c
Selenium-VI	0.001	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	0.06	pCi/L	U				1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.3	pCi/L	U				1	E903.0	05/16/08 11:48/eli-c
Radium 226 precision (±)	1.4	pCi/L					1	E903.0	05/16/08 11:48/eli-c
Radium 226 MDC	2.6	pCi/L					1	E903.0	05/16/08 11:48/eli-c
Thorium 230	1	pCi/L		0.2			1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	8.8	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	5.7	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	8.5	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta	2.9	pCi/L	U				1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	4.3	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	7.1	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	-0.2	pCi/L	U				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	1.4	pCi/L					1	E903.0	04/20/08 17:48/eli-c
Thorium 230	1.0	pCi/L		0.2			1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-003
 Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
 Collection Date: 03/09/08 11:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:32/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.79	%				1	A1030 E	05/08/08 09:40/krs
Anions	27.9	meq/L				1	A1030 E	05/08/08 09:40/krs
Cations	27.0	meq/L				1	A1030 E	05/08/08 09:40/krs
Solids, Total Dissolved Calculated	1730	mg/L				1	A1030 E	05/08/08 09:40/krs
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	05/08/08 09:40/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-004
 Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
 Collection Date: 03/09/08 14:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Bicarbonate as HCO3	112	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Calcium	155	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Chloride	249	mg/L	D	5		50	E300.0	03/12/08 11:29/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 11:45/jmh
Magnesium	36.0	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:25/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	03/12/08 11:45/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:49/eli-b
Sodium	189	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Sulfate	572	mg/L	D	3		50	E300.0	03/12/08 11:29/jmh
Silica	5.6	mg/L		0.2		5	E200.7	04/10/08 20:49/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1860	umhos/cm		5.0		1	A2510 B	03/12/08 00:00/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	03/12/08 13:24/jmh
Sodium Adsorption Ratio (SAR)	3.5	Unitless		0.10		1	Calculation	04/10/08 20:49/krs
Solids, Suspended Sediment SSC @ 105 C	424	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	03/10/08 11:49/jmh
Solids, Total Suspended TSS @ 105 C	400	mg/L		5		1	A2540 D	03/11/08 14:12/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:49/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:21/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:49/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:21/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:49/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-004
 Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
 Collection Date: 03/09/08 14:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 04/04/08 01:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/04/08 01:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/04/08 01:21/eli-c
Uranium	0.0034	mg/L		0.0003		1	E200.8 04/04/08 01:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 04/04/08 01:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 04/04/08 01:21/eli-c
METALS - SUSPENDED							
Thorium 232	0.005	mg/L		0.001		1	E200.8 03/28/08 18:38/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8 03/28/08 18:38/eli-c
METALS - TOTAL							
Aluminum	8.4	mg/L		0.1		2	E200.7 04/12/08 02:01/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8 04/11/08 20:35/eli-b
Barium	ND	mg/L		0.1		1	E200.8 04/11/08 20:35/eli-b
Boron	ND	mg/L		0.1		1	E200.8 04/11/08 20:35/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8 04/11/08 20:35/eli-b
Chromium	ND	mg/L		0.05		1	E200.8 04/11/08 20:35/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B 03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 05/08/08 10:46/krs
Copper	0.01	mg/L		0.01		1	E200.8 04/11/08 20:35/eli-b
Iron	9.12	mg/L		0.03		2	E200.7 04/12/08 02:01/eli-b
Lead	0.008	mg/L		0.001		1	E200.8 04/11/08 20:35/eli-b
Manganese	0.33	mg/L		0.01		1	E200.8 04/11/08 20:35/eli-b
Mercury	ND	mg/L		0.001		1	E200.8 04/11/08 20:35/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8 04/11/08 20:35/eli-b
Nickel	ND	mg/L		0.05		1	E200.8 04/11/08 20:35/eli-b
Silver	ND	mg/L		0.005		1	E200.8 04/11/08 20:35/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8 04/11/08 20:35/eli-b
Uranium	0.0043	mg/L		0.0003		1	E200.8 04/11/08 20:35/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8 04/11/08 20:35/eli-b
Zinc	0.05	mg/L		0.01		1	E200.8 04/11/08 20:35/eli-b
Calcium	160	mg/L		0.5		2	E200.7 04/12/08 02:01/eli-b
Magnesium	38.4	mg/L		0.5		2	E200.7 04/12/08 02:01/eli-b
Potassium	6.7	mg/L		0.5		2	E200.7 04/12/08 02:01/eli-b
Sodium	191	mg/L	D	2		2	E200.7 04/12/08 02:01/eli-b
Silica	45.4	mg/L		0.2		2	E200.7 04/12/08 02:01/eli-b

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. Page 14 of 24



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-004
 Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
 Collection Date: 03/09/08 14:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	03/19/08 11:18/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:21/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED									
Selenium	0.001	mg/L		0.001			1	A3114 B	03/19/08 11:40/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	0.2	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	1.2	pCi/L	U				1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.3	pCi/L					1	E903.0	04/01/08 13:23/eli-c
Thorium 230	0.8	pCi/L		0.2			1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.5	pCi/L					1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	5.1	pCi/L	U				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	4.0	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	6.0	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta	4.8	pCi/L	U				1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	3.4	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	5.6	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	1.5	pCi/L					1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.8	pCi/L		0.2			1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.5	pCi/L					1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-004
 Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
 Collection Date: 03/09/08 14:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:34/eli-b
DATA QUALITY								
A/C Balance (± 5)	-4.49	%				1	A1030 E	05/09/08 07:35/krs
Anions	20.8	meq/L				1	A1030 E	05/09/08 07:35/krs
Cations	19.0	meq/L				1	A1030 E	05/09/08 07:35/krs
Solids, Total Dissolved Calculated	1280	mg/L				1	A1030 E	05/09/08 07:35/krs
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	05/09/08 07:35/krs

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-005
 Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
 Collection Date: 03/09/08 15:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Calcium	308	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Chloride	113	mg/L	D	5		50	E300.0	03/12/08 12:01/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/12/08 12:17/jmh
Magnesium	129	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/12/08 12:17/jmh
Potassium	12	mg/L		1		5	E200.7	04/10/08 20:53/eli-b
Sodium	864	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Sulfate	2490	mg/L	D	3		50	E300.0	03/12/08 12:01/jmh
Silica	6.9	mg/L		0.2		5	E200.7	04/10/08 20:53/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5000	umhos/cm		5.0		1	A2510 B	03/12/08 15:31/jmh
pH	8.10	s.u.		0.01		1	A4500-H B	03/12/08 13:25/jmh
Sodium Adsorption Ratio (SAR)	10	Unitless		0.10		1	Calculation	04/10/08 20:53/krk
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	03/10/08 12:23/jmh
Solids, Total Dissolved TDS @ 180 C	4300	mg/L		5		1	A2540 C	03/10/08 11:50/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	03/11/08 14:13/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:53/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/10/08 20:53/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:53/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Manganese	0.32	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-005
 Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
 Collection Date: 03/09/08 15:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	0.01	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Uranium	0.0269	mg/L		0.0003		1	E200.8	04/04/08 01:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	03/28/08 18:45/eli-c
Uranium	0.0009	mg/L		0.0003		1	E200.8	03/28/08 18:45/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		2	E200.7	04/12/08 02:13/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Boron	0.2	mg/L		0.1		2	E200.7	04/12/08 02:13/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:49/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Iron	0.44	mg/L		0.03		2	E200.7	04/12/08 02:13/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Manganese	0.36	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:49/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Uranium	0.0262	mg/L		0.0003		1	E200.8	04/11/08 20:49/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Zinc	ND	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Calcium	295	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Magnesium	127	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Potassium	11.3	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Sodium	876	mg/L	D	2		2	E200.7	04/12/08 02:13/eli-b
Silica	8.2	mg/L		0.2		2	E200.7	04/12/08 02:13/eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-005
 Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
 Collection Date: 03/09/08 15:15
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	03/19/08 11:20/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:23/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	03/19/08 11:42/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/19/08 09:47/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	-0.02	pCi/L	U				1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.0	pCi/L		0.2			1	E907.0	04/04/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/04/08 15:30/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.7	pCi/L	U				1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.2	pCi/L					1	E903.0	04/01/08 13:23/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	17.4	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	11.6	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	17.2	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta	12.5	pCi/L	U				1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	11.2	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	18.4	pCi/L					1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	-0.7	pCi/L	U				1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level. Page 19 of 24
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-005
Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
Collection Date: 03/09/08 15:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.0001		1 E245.1	03/24/08 12:37/eli-b
DATA QUALITY							
A/C Balance (± 5)	3.65	%				1 A1030 E	05/09/08 07:49/krs
Anions	59.4	meq/L				1 A1030 E	05/09/08 07:49/krs
Cations	63.9	meq/L				1 A1030 E	05/09/08 07:49/krs
Solids, Total Dissolved Calculated	4070	mg/L				1 A1030 E	05/09/08 07:49/krs
TDS Balance (0.80 - 1.20)	1.04	dec. %				1 A1030 E	05/09/08 07:49/krs

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-006
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/09/08 17:35
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Calcium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Chloride	ND	mg/L		1		1	E300.0	03/12/08 13:04/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	03/12/08 13:04/jmh
Magnesium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/12/08 13:04/jmh
Potassium	ND	mg/L		1		5	E200.7	04/10/08 20:57/eli-b
Sodium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Sulfate	ND	mg/L		1		1	E300.0	03/12/08 13:04/jmh
Silica	ND	mg/L		0.2		5	E200.7	04/10/08 20:57/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	12.4	umhos/cm		5.0		1	A2510 B	03/12/08 15:33/jmh
pH	6.41	s.u.		0.01		1	A4500-H B	03/12/08 13:28/jmh
Sodium Adsorption Ratio (SAR)	ND	Unitless		0.10		1	Calculation	04/10/08 20:57/krs
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	03/10/08 12:23/jmh
Solids, Total Dissolved TDS @ 180 C	6	mg/L		5		1	A2540 C	03/10/08 11:50/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	03/11/08 14:14/jmh
TDS results confirmed								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:57/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c
Boron	ND	mg/L		0.1		5	E200.7	04/10/08 20:57/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:57/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-006
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/09/08 17:35
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/04/08 01:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	03/28/08 18:51/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	03/28/08 18:51/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Barium	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Boron	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Cadmium	ND	mg/L		0.005		5	E200.7	04/11/08 02:44/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	04/11/08 02:44/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Iron	ND	mg/L		0.03		5	E200.7	04/11/08 02:44/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Manganese	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Nickel	ND	mg/L		0.05		5	E200.7	04/11/08 02:44/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 21:02/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 21:02/eli-b
Uranium	ND	mg/L		0.0003		1	E200.8	04/11/08 21:02/eli-b
Vanadium	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Zinc	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Calcium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Magnesium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Potassium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Sodium	ND	mg/L		0.5		1	E200.8	04/11/08 21:02/eli-b
Silica	ND	mg/L		0.2		5	E200.7	04/11/08 02:44/eli-b

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-006
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/09/08 17:35
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:44/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	-0.09	pCi/L	U			1	E903.0	03/26/08 15:32/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	03/26/08 15:32/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 15:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.7	pCi/L	U			1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.2	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Thorium 230	1.8	pCi/L		0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	-0.2	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	-1	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.6	pCi/L	U			1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	1.8	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030091-006
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/09/08 17:35
 Date Received: 03/10/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:39/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.49	%				1	A1030 E	05/09/08 08:00/krs
Anions	0.00705	meq/L				1	A1030 E	05/09/08 08:00/krs
Cations	0.00727	meq/L				1	A1030 E	05/09/08 08:00/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080317A-ALK-SEL-W							
Sample ID: MBLK1_080317A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_080317A 03/17/08 14:21
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_080317A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	1000	mg/L	5.0	102	90	110			Run: PH_COND1-R_080317A 03/17/08 14:23
Sample ID: R08030091-001CMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	202	mg/L	5.0	104	80	120			Run: PH_COND1-R_080317A 03/17/08 14:53
Sample ID: R08030091-001CMSD	Sample Matrix Spike Duplicate								
Alkalinity, Total as CaCO3	202	mg/L	5.0	104	80	120	0.0	10	Run: PH_COND1-R_080317A 03/17/08 14:55
Method: A2510 B		Batch: 080312_1_COND-PROBE-W							
Sample ID: LCS1-1_080312	Laboratory Control Sample								
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080312A 03/12/08 15:17
Sample ID: LCS2-1_080312	Laboratory Control Sample								
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080312A 03/12/08 15:25
Sample ID: LCS_COND-1_080312	Laboratory Control Sample								
Conductivity @ 25 C	1500	umhos/cm	5.0	106	90	110			Run: PH_COND2-R_080312A 03/12/08 15:38
Sample ID: MBLK-1_080312	Method Blank								
Conductivity @ 25 C	ND	umhos/cm	5						Run: PH_COND2-R_080312A 03/12/08 15:21
Sample ID: R08030091-001CDUP	Sample Duplicate								
Conductivity @ 25 C	1860	umhos/cm	5.0				2.7	10	Run: PH_COND2-R_080312A 03/12/08 15:30
Method: A2540 C		Batch: 080310A-SLDS-TDS-W							
Sample ID: MBLK1_080310A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						Run: BAL-4-R_080310B 03/10/08 12:26
Sample ID: LCS1_080310A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			Run: BAL-4-R_080310B 03/10/08 12:26
Sample ID: R08030071-001BMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	110	80	120			Run: BAL-4-R_080310B 03/10/08 12:43
Sample ID: R08030071-001BMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	114	80	120	0.3	10	Run: BAL-4-R_080310B 03/10/08 12:44

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080311A-SLDS-TSS-W		
Sample ID: MBLK1_080311A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						03/11/08 14:06
Sample ID: LCS1_080311A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	101	85	115			03/11/08 14:06
Sample ID: R08030091-004CDUP	Sample Duplicate								
Solids, Total Suspended TSS @ 105 C	410	mg/L	5.0				3.0	20	03/11/08 14:13
Method: A3114 B							Batch: C_SE-3114-080319A		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	6E-05						03/19/08 11:03
Sample ID: 288-48-5	Laboratory Control Sample								
Selenium	0.051	mg/L	0.0010	101	90	110			03/19/08 11:05
Sample ID: R08030091-001A	Sample Matrix Spike								
Selenium	0.051	mg/L	0.0010	99	85	115			03/19/08 11:09
Sample ID: R08030091-001A	Sample Matrix Spike Duplicate								
Selenium	0.052	mg/L	0.0010	101	85	115	1.7	10	03/19/08 11:11
Sample ID: R08030091-001H	Sample Matrix Spike								
Selenium	0.055	mg/L	0.0010	105	85	115			03/19/08 11:31
Sample ID: R08030091-001H	Sample Matrix Spike Duplicate								
Selenium	0.055	mg/L	0.0010	105	85	115	0.1	10	03/19/08 11:33

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV-3114-031908A		
Sample ID: MBLK Selenium-IV	Method Blank 0.0003 mg/L		6E-05						
						Run: SUB-C98302			03/19/08 09:05
Sample ID: 288-40-5 Selenium-IV	Laboratory Control Sample 0.047 mg/L		0.0010	94	90	110			
						Run: SUB-C98302			03/19/08 09:08
Sample ID: R08030091-001A Selenium-IV	Sample Matrix Spike 0.045 mg/L		0.0010	89	85	115			
						Run: SUB-C98302			03/19/08 09:12
Sample ID: R08030091-001A Selenium-IV	Sample Matrix Spike Duplicate 0.049 mg/L		0.0010	96	85	115	7.6	10	
						Run: SUB-C98302			03/19/08 09:14
Sample ID: R08030091-001H Selenium-IV	Sample Matrix Spike 0.041 mg/L		0.0010	81	85	115			
						Run: SUB-C98302			03/19/08 09:35
	- Matrix spike recoveries outside the acceptance range are considered matrix-related.								
Sample ID: R08030091-001H Selenium-IV	Sample Matrix Spike Duplicate 0.042 mg/L		0.0010	84	85	115	3.8	10	
						Run: SUB-C98302			03/19/08 09:38
	- Matrix spike recoveries outside the acceptance range are considered matrix-related.								

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080310-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND	mg/L	0.005						
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.21	mg/L	0.0050	104	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-001E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	93	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-002E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	95	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-003E Chromium, Hexavalent	Sample Duplicate 0.012	mg/L	0.0050				40	10	R
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-003E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	91	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-004E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	95	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-005E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	93	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Sample ID: R08030091-006E Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	100	80	120			03/10/08 00:00
						Run: SPEC1_080310A			03/10/08 00:00
Method: A4500-H B							Batch: 080312_1-PH-W		
Sample ID: LCS_pH-1_080312 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			03/12/08 12:46
						Run: PH_COND2-R_080312A			03/12/08 12:46
Sample ID: R08030091-001CDUP pH	Sample Duplicate 7.69	s.u.	0.010				0.3	1.25	03/12/08 12:48
						Run: PH_COND2-R_080312A			03/12/08 12:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-03-14_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						
						Run: TECHAA2-R_080314A			03/14/08 14:45
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			03/14/08 14:46
						Run: TECHAA2-R_080314A			03/14/08 14:47
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			03/14/08 14:47
						Run: TECHAA2-R_080314A			03/14/08 16:17
Sample ID: R08030073-004BDUP	Sample Duplicate								
Nitrogen, Ammonia as N	23000	mg/L	530				1.5		10
						Run: TECHAA2-R_080314A			03/14/08 16:32
Sample ID: R08030152-001CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	80	120			03/14/08 16:32
						Run: TECHAA2-R_080314A			03/14/08 16:33
Sample ID: R08030152-001CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120	4.5		10
Method: A9222 D							Batch: 080310-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank								
Bacteria, Fecal Coliform	ND	CFU/100ml	1						03/10/08 11:00
						Run: MEMFILT_080310A			03/10/08 11:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_B_R109010		
Sample ID: MB-SPDIS080410A	Method Blank		Run: SUB-C99497				04/10/08 16:42		
Aluminum	ND	mg/L	0.007						
Barium	0.0003	mg/L	0.0001						
Boron	0.02	mg/L	0.005						
Cadmium	0.0009	mg/L	0.0003						
Calcium	0.04	mg/L	0.009						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.001						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.01						
Manganese	ND	mg/L	0.0002						
Molybdenum	0.008	mg/L	0.008						
Nickel	ND	mg/L	0.001						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.2						
Vanadium	ND	mg/L	0.001						
Zinc	0.001	mg/L	0.0004						
Sample ID: LFB-SPDIS080410A	Laboratory Fortified Blank		Run: SUB-C99497				04/10/08 16:46		
Aluminum	5.1	mg/L	0.10	102	85	115			
Barium	1.0	mg/L	0.10	104	85	115			
Boron	1.0	mg/L	0.10	99	85	115			
Cadmium	0.51	mg/L	0.010	101	85	115			
Calcium	51	mg/L	1.0	103	85	115			
Chromium	1.0	mg/L	0.050	102	85	115			
Copper	0.99	mg/L	0.010	99	85	115			
Iron	5.3	mg/L	0.030	105	85	115			
Magnesium	51	mg/L	1.0	102	85	115			
Manganese	5.0	mg/L	0.010	99	85	115			
Molybdenum	0.99	mg/L	0.10	99	85	115			
Nickel	1.0	mg/L	0.050	104	85	115			
Potassium	52	mg/L	1.5	104	85	115			
Sodium	52	mg/L	1.0	103	85	115			
Vanadium	1.0	mg/L	0.10	102	85	115			
Zinc	1.0	mg/L	0.010	104	85	115			
Sample ID: C08030932-005AMS2	Sample Matrix Spike		Run: SUB-C99497				04/10/08 17:47		
Aluminum	10.2	mg/L	0.10	96	70	130			
Barium	31.2	mg/L	0.10	94	70	130			
Boron	9.27	mg/L	0.10	93	70	130			
Cadmium	9.58	mg/L	0.010	96	70	130			
Chromium	9.52	mg/L	0.010	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_B_R109010		
Sample ID: C08030932-005AMS2	Sample Matrix Spike		Run: SUB-C99497				04/10/08 17:47		
Copper	9.57	mg/L	0.010	96	70	130			
Iron	9.71	mg/L	0.051	97	70	130			
Manganese	9.64	mg/L	0.010	96	70	130			
Molybdenum	9.14	mg/L	0.051	91	70	130			
Nickel	9.73	mg/L	0.010	97	70	130			
Vanadium	9.51	mg/L	0.10	95	70	130			
Zinc	9.86	mg/L	0.010	98	70	130			
Calcium	1130	mg/L	1.0	96	70	130			
Magnesium	501	mg/L	1.0	100	70	130			
Potassium	521	mg/L	31	103	70	130			
Sodium	532	mg/L	10	101	70	130			
Silica	8.50	mg/L	0.22	4	70	130			S
Sample ID: C08030932-005AMS2	Sample Matrix Spike Duplicate		Run: SUB-C99497				04/10/08 17:51		
Aluminum	10.3	mg/L	0.10	98	70	130	1.4	20	
Barium	31.9	mg/L	0.10	100	70	130	2.1	20	
Boron	9.32	mg/L	0.10	93	70	130	0.5	20	
Cadmium	9.58	mg/L	0.010	96	70	130	0.0	20	
Chromium	9.52	mg/L	0.010	95	70	130	0.0	20	
Copper	9.73	mg/L	0.010	97	70	130	1.7	20	
Iron	9.75	mg/L	0.051	98	70	130	0.4	20	
Manganese	9.68	mg/L	0.010	97	70	130	0.4	20	
Molybdenum	9.32	mg/L	0.051	93	70	130	2.0	20	
Nickel	9.72	mg/L	0.010	97	70	130	0.1	20	
Vanadium	9.60	mg/L	0.10	96	70	130	1.0	20	
Zinc	9.84	mg/L	0.010	98	70	130	0.2	20	
Calcium	1130	mg/L	1.0	96	70	130	0.1	20	
Magnesium	493	mg/L	1.0	99	70	130	1.7	20	
Potassium	508	mg/L	31	100	70	130	2.7	20	
Sodium	522	mg/L	10	99	70	130	1.9	20	
Silica	8.51	mg/L	0.22	4	70	130	0.2	20	S
Sample ID: B08040942-006AMS2	Sample Matrix Spike		Run: SUB-C99497				04/11/08 00:51		
Aluminum	17.9	mg/L	0.10	62	70	130			S
Barium	0.982	mg/L	0.10	96	70	130			
Boron	0.949	mg/L	0.10	95	70	130			
Cadmium	0.523	mg/L	0.0010	94	70	130			
Chromium	0.969	mg/L	0.010	97	70	130			
Copper	1.02	mg/L	0.010	93	70	130			
Iron	5.34	mg/L	0.030	96	70	130			
Manganese	5.97	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_B_R109010		
Sample ID: B08040942-006AMS2	Sample Matrix Spike		Run: SUB-C99497				04/11/08 00:51		
Molybdenum	0.830	mg/L	0.0082	83	70	130			
Nickel	1.09	mg/L	0.010	98	70	130			
Vanadium	0.957	mg/L	0.10	96	70	130			
Zinc	1.42	mg/L	0.010	94	70	130			
Calcium	81.6	mg/L	1.0	84	70	130			
Magnesium	55.1	mg/L	1.0	94	70	130			
Potassium	56.3	mg/L	2.0	100	70	130			
Sodium	53.1	mg/L	1.0	99	70	130			
Silica	53.8	mg/L	0.21	77	70	130			
Sample ID: B08040942-006AMS2	Sample Matrix Spike Duplicate		Run: SUB-C99497				04/11/08 00:55		
Aluminum	18.0	mg/L	0.10	63	70	130	0.4	20	S
Barium	1.000	mg/L	0.10	98	70	130	1.7	20	
Boron	0.950	mg/L	0.10	95	70	130	0.1	20	
Cadmium	0.525	mg/L	0.0010	95	70	130	0.4	20	
Chromium	0.974	mg/L	0.010	97	70	130	0.5	20	
Copper	1.03	mg/L	0.010	94	70	130	1.0	20	
Iron	5.39	mg/L	0.030	97	70	130	0.8	20	
Manganese	6.01	mg/L	0.010	91	70	130	0.7	20	
Molybdenum	0.839	mg/L	0.0082	84	70	130	1.1	20	
Nickel	1.09	mg/L	0.010	98	70	130	0.3	20	
Vanadium	0.966	mg/L	0.10	97	70	130	1.0	20	
Zinc	1.42	mg/L	0.010	93	70	130	0.2	20	
Calcium	82.5	mg/L	1.0	86	70	130	1.1	20	
Magnesium	55.9	mg/L	1.0	96	70	130	1.5	20	
Potassium	57.0	mg/L	2.0	101	70	130	1.3	20	
Sodium	52.9	mg/L	1.0	99	70	130	0.4	20	
Silica	53.5	mg/L	0.21	76	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18083		
Sample ID: MB-18083	Method Blank					Run: SUB-C98784			03/28/08 18:05
Uranium	0.0001	mg/L	2E-05						
Sample ID: LCS1-18083	Laboratory Control Sample					Run: SUB-C98784			03/28/08 18:12
Uranium	0.0519	mg/L	0.00030	98	80	120			
Sample ID: C08030621-004AMS	Sample Matrix Spike					Run: SUB-C98784			03/28/08 19:32
Uranium	0.0427	mg/L	0.00030	-53	70	130			S
Sample ID: C08030621-004AMSD	Sample Matrix Spike Duplicate					Run: SUB-C98784			03/28/08 19:39
Uranium	0.0748	mg/L	0.00030	-46	70	130	55	20	SR
Sample ID: C08030621-004AMS	Sample Matrix Spike					Run: SUB-C99175			04/03/08 20:44
Uranium	24.4	mg/kg-dry	0.028	102	70	130			
Sample ID: C08030621-004AMSD	Sample Matrix Spike Duplicate					Run: SUB-C99175			04/03/08 20:50
Uranium	24.1	mg/kg-dry	0.029	100	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_B_R109072		
Sample ID: LRB	Method Blank					Run: SUB-C99508	04/11/08 15:43		
Arsenic	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Silver	ND	mg/L	7E-06						
Sodium	ND	mg/L	0.01						
Thorium 232	ND	mg/L	0.001						
Uranium	ND	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C99508	04/11/08 17:18		
Silver	0.0195	mg/L	0.0050	98	85	115			
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C99508	04/11/08 15:50		
Arsenic	0.0514	mg/L	0.0050	103	85	115			
Lead	0.0520	mg/L	0.010	104	85	115			
Silver	0.0146	mg/L	0.0050	73	85	115			S
Sodium	48.8	mg/L	0.50	98	85	115			
Thorium 232	0.0516	mg/L	0.010	103	85	115			
Uranium	0.0513	mg/L	0.0010	103	85	115			
Sample ID: B08041011-001AMS	Sample Matrix Spike					Run: SUB-C99508	04/12/08 02:21		
Arsenic	0.0520	mg/L	0.0050	104	70	130			
Lead	0.0521	mg/L	0.010	104	70	130			
Silver	0.0129	mg/L	0.0050	65	70	130			S
Uranium	0.0511	mg/L	0.0010	102	70	130			
Sodium	57.1	mg/L	1.0	99	70	130			
Sample ID: B08041011-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C99508	04/12/08 02:28		
Arsenic	0.0507	mg/L	0.0050	101	70	130	2.5	20	
Lead	0.0506	mg/L	0.010	101	70	130	2.9	20	
Silver	0.0147	mg/L	0.0050	74	70	130	13	20	
Uranium	0.0497	mg/L	0.0010	99	70	130	2.9	20	
Sodium	56.6	mg/L	1.0	98	70	130	0.9	20	
Sample ID: B08041306-003BDUP	Sample Duplicate					Run: SUB-C99508	04/12/08 10:42		
Arsenic	0.00122	mg/L	0.0050				0.0	20	
Lead	5.52E-05	mg/L	0.010				0.0	20	
Silver	ND	mg/L	0.0050				0.0	20	
Uranium	0.000717	mg/L	0.0010				0.0	20	
Sodium	3.94	mg/L	1.0				0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99175		
Sample ID: LRB	Method Blank		Run: SUB-C99175			04/03/08 13:10			
Arsenic	8E-05	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	8E-05	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	0.00010	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.002	mg/L	3E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C99175			04/03/08 13:17			
Arsenic	0.0510	mg/L	0.0010	102	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0525	mg/L	0.0010	105	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0524	mg/L	0.0010	105	85	115			
Manganese	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00547	mg/L	0.0010	109	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0523	mg/L	0.0010	105	85	115			
Silver	0.0192	mg/L	0.0010	85	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Vanadium	0.0528	mg/L	0.0010	106	85	115			
Zinc	0.0522	mg/L	0.0010	104	85	115			
Sample ID: C08030859-001BMS4	Post Digestion Spike		Run: SUB-C99175			04/04/08 01:49			
Arsenic	0.0994	mg/L	0.0010	99	70	130			
Barium	0.105	mg/L	0.10	103	70	130			
Cadmium	0.0974	mg/L	0.010	97	70	130			
Chromium	0.0980	mg/L	0.050	98	70	130			
Copper	0.102	mg/L	0.010	96	70	130			
Lead	0.0980	mg/L	0.050	98	70	130			
Manganese	0.0995	mg/L	0.010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99175		
Sample ID: C08030859-001BMS4	Post Digestion Spike		Run: SUB-C99175			04/04/08 01:49			
Mercury	0.00982	mg/L	0.0010	98	70	130			
Molybdenum	0.105	mg/L	0.10	104	70	130			
Nickel	0.104	mg/L	0.050	99	70	130			
Silver	0.0255	mg/L	0.010	64	70	130			S
Thorium 232	0.0972	mg/L	0.0010	97	70	130			
Uranium	0.104	mg/L	0.00030	97	70	130			
Vanadium	0.102	mg/L	0.10	102	70	130			
Zinc	0.110	mg/L	0.010	102	70	130			
Sample ID: C08030859-001BMSD4	Post Digestion Spike Duplicate		Run: SUB-C99175			04/04/08 01:55			
Arsenic	0.0997	mg/L	0.0010	99	70	130	0.3	20	
Barium	0.110	mg/L	0.10	107	70	130	4.5	20	
Cadmium	0.102	mg/L	0.010	102	70	130	5.0	20	
Chromium	0.0988	mg/L	0.050	98	70	130	0.8	20	
Copper	0.100	mg/L	0.010	94	70	130	2.0	20	
Lead	0.100	mg/L	0.050	100	70	130	2.2	20	
Manganese	0.100	mg/L	0.010	96	70	130	0.6	20	
Mercury	0.0102	mg/L	0.0010	102	70	130	3.4	20	
Molybdenum	0.110	mg/L	0.10	110	70	130	5.0	20	
Nickel	0.103	mg/L	0.050	98	70	130	0.8	20	
Silver	0.0276	mg/L	0.010	69	70	130	7.7	20	S
Thorium 232	0.102	mg/L	0.0010	102	70	130	5.2	20	
Uranium	0.108	mg/L	0.00030	101	70	130	3.9	20	
Vanadium	0.102	mg/L	0.10	102	70	130	0.0	20	
Zinc	0.110	mg/L	0.010	102	70	130	0.1	20	
Method: E245.1							Batch: C_B_31544		
Sample ID: MB-31544	Method Blank		Run: SUB-C98552			03/24/08 12:04			
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31544	Laboratory Fortified Blank		Run: SUB-C98552			03/24/08 12:10			
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: B08031430-001AMS	Sample Matrix Spike		Run: SUB-C98552			03/24/08 12:22			
Mercury	0.0099	mg/L	0.0010	98	70	130			
Sample ID: B08031430-001AMSD	Sample Matrix Spike Duplicate		Run: SUB-C98552			03/24/08 12:25			
Mercury	0.0098	mg/L	0.0010	98	70	130	1.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: SUB-C98552		
Sample ID: QCS	Initial Calibration Verification Standard						03/24/08 10:39		
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E300.0							Batch: R33791		
Sample ID: LFB0803115548-3	Laboratory Fortified Blank				Run: DIONEX_080312A		03/12/08 08:50		
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0803115548-4	Laboratory Fortified Blank				Run: DIONEX_080312A		03/12/08 09:06		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08030091-001CMS	Sample Matrix Spike				Run: DIONEX_080312A		03/12/08 09:37		
Chloride	446	mg/L	5.4	86	80	120			
Fluoride	103	mg/L	0.56	103	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Sulfate	1120	mg/L	3.4	88	80	120			
Sample ID: R08030091-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080312A		03/12/08 09:53		
Chloride	433	mg/L	5.4	80	80	120	3.1	10	
Fluoride	97.8	mg/L	0.56	98	80	120	5.5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	5.5	10	
Sulfate	1080	mg/L	3.4	83	80	120	3.5	10	
Sample ID: R08030091-006CMS	Sample Matrix Spike				Run: DIONEX_080312A		03/12/08 13:20		
Chloride	4.87	mg/L	0.50	92	80	120			
Fluoride	2.03	mg/L	0.10	101	80	120			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120			
Sulfate	13.8	mg/L	1.0	92	80	120			
Sample ID: R08030091-006CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080312A		03/12/08 13:36		
Chloride	4.96	mg/L	0.50	94	80	120	1.8	10	
Fluoride	2.08	mg/L	0.10	104	80	120	2.4	10	
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	80	120	1.7	10	
Sulfate	14.1	mg/L	1.0	94	80	120	2.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0417		
Sample ID: MB-GrAB-0417	Method Blank				Run: SUB-C99140				04/02/08 04:03
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0417	Laboratory Control Sample				Run: SUB-C99140				04/02/08 04:03
Gross Alpha	230	pCi/L		95	70	130			
Gross Beta	220	pCi/L		101	70	130			
Sample ID: C08030704-001CMS	Sample Matrix Spike				Run: SUB-C99140				04/02/08 04:03
Gross Beta	93.7	pCi/L		99	70	130			
Sample ID: C08030704-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C99140				04/02/08 04:03
Gross Beta	0.178	pCi/L			70	130	200	16.9	SR
- Beta MSD failed at bench level. MS and LCS are acceptable so the batch is approved.									
Sample ID: R08030091-004I	Sample Duplicate				Run: SUB-C99140				04/02/08 20:04
Gross Alpha	5.73	pCi/L					12	157.2	U
Gross Beta	3.72	pCi/L					25	168.8	U
Gross Beta MDC	5.60	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R98315		
Sample ID: LCS-R98315	Laboratory Control Sample				Run: SUB-C98315		03/14/08 16:57		
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1500	pCi/L	20	105	70	130			
Potassium 40	6900	pCi/L	20	103	70	130			
Sample ID: MB-R98315							Run: SUB-C98315		
Method Blank							03/14/08 16:57		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							
Method: E903.0							Batch: C_18083		
Sample ID: LCS-18083	Laboratory Control Sample				Run: SUB-C98992		04/01/08 15:03		
Radium 226	11	pCi/L	82		70	130			
Sample ID: MB-18083							Run: SUB-C98992		
Method Blank							04/01/08 15:03		
Radium 226	-1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18485		
Sample ID: LCS-18485 Radium 226	Laboratory Control Sample 14 pCi/L			105	70	130			05/16/08 09:52
Sample ID: MB-18485 Radium 226	Method Blank -2 pCi/L								05/16/08 09:52 U
Sample ID: C08041197-014AMS Radium 226	Sample Matrix Spike 100 pCi/L			123	70	130			05/16/08 09:52
Sample ID: C08041197-014AMSD Radium 226	Sample Matrix Spike Duplicate 110 pCi/L			129	70	130	3.0	24.8	05/16/08 09:52
Method: E903.0							Batch: C_RA226-2680		
Sample ID: C08030639-001AMS Radium 226	Sample Matrix Spike 9.6 pCi/L			87	70	130			03/26/08 11:40
Sample ID: C08030639-001AMSD Radium 226	Sample Matrix Spike Duplicate 9.5 pCi/L			84	70	130	1.8	22.7	03/26/08 11:40
Sample ID: MB-RA226-2680 Radium 226	Method Blank -0.1 pCi/L								03/26/08 17:11
Sample ID: LCS-RA226-2680 Radium 226	Laboratory Control Sample 6.3 pCi/L			101	70	130			03/26/08 17:11
Method: E907.0							Batch: C_18083		
Sample ID: R08030091-001K Thorium 230	Sample Matrix Spike 23.1 pCi/L		0.20	94	70	130			03/26/08 15:15
Sample ID: R08030091-001K Thorium 230	Sample Matrix Spike Duplicate 23.8 pCi/L		0.20	97	70	130	2.8	30	03/26/08 15:15
Sample ID: LCS-18083 Thorium 230	Laboratory Control Sample 46.1 pCi/g-dry		0.10	98	70	130			03/26/08 15:15
Sample ID: MB-18083 Thorium 230	Method Blank ND pCi/g-dry								03/26/08 15:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R99362		
Sample ID: LCS-R99362	Laboratory Control Sample								
Thorium 230	8.20	pCi/L	0.20	116	70	130			03/31/08 14:00
Sample ID: C08030555-001HMS	Sample Matrix Spike								
Thorium 230	13.7	pCi/L	0.20	121	70	130			03/31/08 14:00
Sample ID: C08030555-001HMSD	Sample Matrix Spike Duplicate								
Thorium 230	13.2	pCi/L	0.20	116	70	130	3.7	30	03/31/08 14:00
Sample ID: MB-R99362	Method Blank								
Thorium 230	0.1	pCi/L							03/31/08 14:00
Method: E907.0							Batch: C_R99579		
Sample ID: LCS-R99579	Laboratory Control Sample								
Thorium 230	6.74	pCi/L	0.20	95	70	130			04/04/08 15:30
Sample ID: C08031118-033AMS	Sample Matrix Spike								
Thorium 230	9.50	pCi/L	0.20	96	70	130			04/04/08 15:30
Sample ID: C08031118-033AMSD	Sample Matrix Spike Duplicate								
Thorium 230	10.3	pCi/L	0.20	104	70	130	7.9	30	04/04/08 15:30
Sample ID: MB-R99579	Method Blank								
Thorium 230	0.2	pCi/L							04/04/08 15:30 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Page ___ of ___

Company Name: Respec		Project Name, PWS, Permit, Etc. Tower Tech Dewey Burdock		Sample Origin State: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: Respec		Contact Name: Eric Krantz	Phone/Fax: 605.463.2000	Email: Eric.Krantz@respec.com	Sampler: (Please Print) Eric Krantz
Invoice Address: Respec		Invoice Contact & Phone: 605.463.2000		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
ANALYSIS REQUESTED AS Per Duke		SEE ATTACHED		RUSH Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
Shipped by: Cooler Date:		Reagent Temp 4.6 °C On Ice: <input checked="" type="checkbox"/> No		Custody Seal Y N Intact Y N Signature Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)					
1	Dew Burd QHR 05	3/9/07	0900	W	Set 14
2	Dew Burd BVC 04	3/9/07	11:05	W	Set 10
3	Dew Burd BVC 04	3/9/07	11:15	W	Set 15
4	Dew Burd QHR 01	3/9/07	14:15	W	Set 2
5	Dew Burd BVC 01	3/9/07	15:15	W	Set 5
6	Dew Burd BLK 01	3/9/07	17:35	W	Set 11
7					
8					
9					
10					

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman

RESPEC Inc

3824 Jet Dr

Rapid City, SD 57701-

Workorder No.: R08030252

Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 3/25/2008 for analysis.

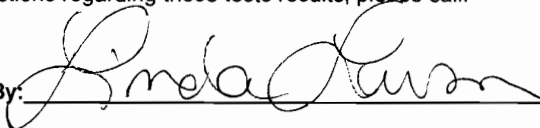
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030252-001	DewBurd SUB11	03/24/08 11:10	03/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended



R08030252-002 DewBurd SUB07	03/24/08 11:55 03/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08030252-003 DewBurd SUB01	03/24/08 12:45 03/25/08	Aqueous	Same As Above
R08030252-004 DewBurd SUB09	03/24/08 16:25 03/25/08	Aqueous	Same As Above
R08030252-005 DewBurd SUB10	03/24/08 17:10 03/25/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-001
 Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
 Collection Date: 03/24/08 11:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MICROBIOLOGICAL							
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2	2	A9222 D	03/25/08 11:10/jmh
MAJOR IONS							
Alkalinity, Total as CaCO3	18	mg/L		5	1	A2320 B	03/28/08 13:20/sn
Carbonate as CO3	ND	mg/L		5	1	A2320 B	03/28/08 13:20/sn
Bicarbonate as HCO3	22	mg/L		5	1	A2320 B	03/28/08 13:20/sn
Calcium	6.3	mg/L		0.5	2	E200.7	04/10/08 12:57/eli-c
Chloride	1	mg/L		1	1	E300.0	03/26/08 12:48/jmh
Fluoride	0.2	mg/L		0.1	1	E300.0	03/26/08 12:48/jmh
Magnesium	1.9	mg/L		0.5	2	E200.7	04/10/08 12:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	03/28/08 14:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	03/26/08 12:48/jmh
Potassium	4	mg/L		1	2	E200.7	04/10/08 12:57/eli-c
Silica	0.8	mg/L		0.5	2	E200.7	04/10/08 12:57/eli-c
Sodium	2.7	mg/L		0.5	2	E200.7	04/10/08 12:57/eli-c
Sulfate	12	mg/L		1	1	E300.0	03/26/08 12:48/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	68.7	umhos/cm		5.0	1	A2510 B	03/26/08 11:10/jmh
pH	6.68	s.u.		0.01	1	A4500-H B	03/26/08 15:35/jmh
Sodium Adsorption Ratio (SAR)	0.24	unitless		0.10	1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	77	mg/L		5	1	D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	90	mg/L		5	1	A2540 C	03/31/08 08:36/mb
Solids, Total Suspended TSS @ 105 C	61	mg/L		5	1	A2540 D	03/28/08 08:04/mb
METALS - DISSOLVED							
Aluminum	0.2	mg/L		0.1	2	E200.7	04/10/08 12:57/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	04/13/08 12:20/eli-c
Barium	ND	mg/L		0.1	1	E200.8	04/13/08 12:20/eli-c
Boron	ND	mg/L		0.1	2	E200.7	04/10/08 12:57/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	04/13/08 12:20/eli-c
Chromium	ND	mg/L		0.01	2	E200.7	04/10/08 12:57/eli-c
Copper	ND	mg/L		0.01	1	E200.8	04/13/08 12:20/eli-c
Iron	1.70	mg/L		0.03	2	E200.7	04/10/08 12:57/eli-c
Lead	ND	mg/L		0.001	1	E200.8	04/13/08 12:20/eli-c
Manganese	0.57	mg/L		0.01	2	E200.7	04/10/08 12:57/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	04/13/08 12:20/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	04/10/08 12:57/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-001
 Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
 Collection Date: 03/24/08 11:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/13/08 12:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:20/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 12:20/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 12:57/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/10/08 12:57/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	04/13/08 13:41/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	04/13/08 13:41/eli-c
METALS - TOTAL								
Aluminum	1.9	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	04/10/08 19:07/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:08/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/10/08 19:07/eli-c
Iron	15.7	mg/L		0.03		2	E200.7	04/09/08 16:08/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	04/10/08 19:07/eli-c
Manganese	0.66	mg/L		0.01		2	E200.7	04/09/08 16:08/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/10/08 19:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/10/08 19:07/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	04/10/08 19:07/eli-c
Calcium	6.7	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Magnesium	2.1	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Potassium	5.2	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Silica	6.1	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Sodium	1.9	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-001
Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
Collection Date: 03/24/08 11:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:27/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:43/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	04/19/08 17:42/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/19/08 17:42/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 17:42/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.8	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	0.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	5.8	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.9	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-001
 Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
 Collection Date: 03/24/08 11:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:00/eli-b
DATA QUALITY								
A/C Balance (± 5)	10.9					1	A1030 E	06/18/08 00:00/ADM
Anions	0.660	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	0.830	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	42.0	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	2.14					1	A1030 E	06/18/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-002
 Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
 Collection Date: 03/24/08 11:55
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2			A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5			A2320 B	03/28/08 13:21/sn
Carbonate as CO3	ND	mg/L		5			A2320 B	03/28/08 13:21/sn
Bicarbonate as HCO3	ND	mg/L		5			A2320 B	03/28/08 13:21/sn
Calcium	27.6	mg/L		0.5			E200.7	04/10/08 13:00/eli-c
Chloride	4	mg/L		1			E300.0	03/26/08 13:19/jmh
Fluoride	0.2	mg/L		0.1			E300.0	03/26/08 13:19/jmh
Magnesium	16.4	mg/L		0.5			E200.7	04/10/08 13:00/eli-c
Nitrogen, Ammonia as N	2.4	mg/L		0.1			A4500-NH3 G	03/28/08 14:32/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1			E300.0	03/26/08 13:19/jmh
Potassium	14	mg/L		1			E200.7	04/10/08 13:00/eli-c
Silica	1.4	mg/L		0.5			E200.7	04/10/08 13:00/eli-c
Sodium	3.4	mg/L		0.5			E200.7	04/10/08 13:00/eli-c
Sulfate	183	mg/L		1			E300.0	03/26/08 13:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	402	umhos/cm		5.0			A2510 B	03/26/08 11:11/jmh
pH	4.16	s.u.		0.01			A4500-H B	03/26/08 15:36/jmh
Sodium Adsorption Ratio (SAR)	0.13	unitless		0.10			Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5			D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	220	mg/L		5			A2540 C	03/31/08 08:37/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			A2540 D	03/28/08 08:05/mb
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1			E200.7	04/10/08 13:00/eli-c
Arsenic	ND	mg/L		0.001			E200.8	04/13/08 12:27/eli-c
Barium	ND	mg/L		0.1			E200.8	04/13/08 12:27/eli-c
Boron	ND	mg/L		0.1			E200.7	04/10/08 13:00/eli-c
Cadmium	ND	mg/L		0.005			E200.8	04/13/08 12:27/eli-c
Chromium	ND	mg/L		0.01			E200.7	04/10/08 13:00/eli-c
Copper	ND	mg/L		0.01			E200.8	04/13/08 12:27/eli-c
Iron	1.58	mg/L		0.03			E200.7	04/10/08 13:00/eli-c
Lead	ND	mg/L		0.001			E200.8	04/13/08 12:27/eli-c
Manganese	2.85	mg/L		0.01			E200.7	04/10/08 13:00/eli-c
Mercury	ND	mg/L		0.001			E200.8	04/13/08 12:27/eli-c
Molybdenum	ND	mg/L		0.1			E200.7	04/10/08 13:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-002
 Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
 Collection Date: 03/24/08 11:55
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	0.06	mg/L		0.01		1	E200.8 04/13/08 12:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/13/08 12:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/13/08 12:27/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 04/13/08 12:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/10/08 13:00/eli-c
Zinc	0.06	mg/L		0.01		2	E200.7 04/10/08 13:00/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001		1	E200.8 04/13/08 13:47/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 04/13/08 13:47/eli-c
METALS - TOTAL							
Aluminum	0.4	mg/L	B	0.1		2	E200.7 04/09/08 16:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 04/10/08 19:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/09/08 16:15/eli-c
Boron	ND	mg/L		0.1		2	E200.7 04/09/08 16:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/10/08 19:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/09/08 16:15/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B 03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 06/16/08 00:00/ADM
Copper	ND	mg/L		0.01		2	E200.7 04/09/08 16:15/eli-c
Iron	1.67	mg/L		0.03		2	E200.7 04/09/08 16:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/10/08 19:13/eli-c
Manganese	2.76	mg/L		0.01		2	E200.7 04/09/08 16:15/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 04/09/08 16:15/eli-c
Nickel	0.07	mg/L		0.05		1	E200.8 04/10/08 19:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/10/08 19:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/10/08 19:13/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8 04/10/08 19:13/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/09/08 16:15/eli-c
Zinc	0.08	mg/L		0.01		1	E200.8 04/10/08 19:13/eli-c
Calcium	27.0	mg/L		0.5		2	E200.7 04/09/08 16:15/eli-c
Magnesium	16.0	mg/L		0.5		2	E200.7 04/09/08 16:15/eli-c
Potassium	13.7	mg/L		0.5		2	E200.7 04/09/08 16:15/eli-c
Silica	1.4	mg/L		0.5		2	E200.7 04/09/08 16:15/eli-c
Sodium	3.5	mg/L		0.5		2	E200.7 04/09/08 16:15/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-002
 Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
 Collection Date: 03/24/08 11:55
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/01/08 13:30/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/01/08 09:31/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/01/08 13:45/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/01/08 09:46/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	0.4	pCi/L					1	E903.0	04/19/08 19:12/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	04/19/08 19:12/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	04/19/08 19:12/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	0.5	pCi/L	U				1	E903.0	04/13/08 09:00/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	04/13/08 09:00/eli-c
Radium 226 MDC	0.7	pCi/L					1	E903.0	04/13/08 09:00/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	1.9	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.9	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	1.2	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Beta	13.4	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.7	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L					1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0			1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	0.8	pCi/L					1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-002
 Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
 Collection Date: 03/24/08 11:55
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	-3.45					1	A1030 E	06/18/08 00:00/ADM
Anions	3.95	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	3.69	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	254	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.860					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-003
 Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
 Collection Date: 03/24/08 12:45
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	38	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Bicarbonate as HCO3	46	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Calcium	21.0	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Chloride	3	mg/L		1		1	E300.0	03/26/08 13:50/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/26/08 13:50/jmh
Magnesium	4.4	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:11/jmh
Nitrogen, Nitrate as N	1.2	mg/L		0.1		1	E300.0	03/26/08 13:50/jmh
Potassium	4	mg/L		1		2	E200.7	04/10/08 13:04/eli-c
Silica	8.6	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Sodium	18.9	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Sulfate	59	mg/L		1		1	E300.0	03/26/08 13:50/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	230	umhos/cm		5.0		1	A2510 B	03/26/08 11:13/jmh
pH	7.73	s.u.		0.01		1	A4500-H B	03/26/08 15:38/jmh
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	198	mg/L		5		1	D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	300	mg/L		5		1	A2540 C	06/17/08 09:48/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	03/28/08 08:06/mb
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:33/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:33/eli-c
Iron	0.15	mg/L		0.03		2	E200.7	04/10/08 13:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7	04/10/08 13:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-003
 Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
 Collection Date: 03/24/08 12:45
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			1	E200.8	04/13/08 12:33/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/13/08 12:33/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	04/13/08 12:33/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/13/08 12:33/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	04/10/08 13:04/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	04/10/08 13:04/eli-c
METALS - SUSPENDED									
Thorium 232	0.002	mg/L		0.001			1	E200.8	04/13/08 13:54/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	04/13/08 13:54/eli-c
METALS - TOTAL									
Aluminum	22.4	mg/L		0.1			2	E200.7	04/09/08 16:20/eli-c
Arsenic	0.005	mg/L		0.001			1	E200.8	04/10/08 19:20/eli-c
Barium	0.1	mg/L		0.1			2	E200.7	04/09/08 16:20/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/09/08 16:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/10/08 19:20/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/09/08 16:20/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01			2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	06/16/08 00:00/ADM
Copper	0.02	mg/L		0.01			1	E200.8	04/10/08 19:20/eli-c
Iron	15.1	mg/L		0.03			2	E200.7	04/09/08 16:20/eli-c
Lead	0.009	mg/L		0.001			1	E200.8	04/10/08 19:20/eli-c
Manganese	0.18	mg/L		0.01			2	E200.7	04/09/08 16:20/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	04/09/08 16:20/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/10/08 19:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/10/08 19:20/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	04/10/08 19:20/eli-c
Uranium	0.0011	mg/L		0.0003			1	E200.8	04/10/08 19:20/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	04/09/08 16:20/eli-c
Zinc	0.06	mg/L		0.01			1	E200.8	04/10/08 19:20/eli-c
Calcium	25.1	mg/L		0.5			2	E200.7	04/09/08 16:20/eli-c
Magnesium	8.4	mg/L		0.5			2	E200.7	04/09/08 16:20/eli-c
Potassium	8.3	mg/L		0.5			2	E200.7	04/09/08 16:20/eli-c
Silica	104	mg/L		0.5			2	E200.7	04/09/08 16:20/eli-c
Sodium	17.8	mg/L		0.5			2	E200.7	04/09/08 16:20/eli-c

METALS - DISSOLVED - SPECIATED

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-003
 Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
 Collection Date: 03/24/08 12:45
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:32/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	04/01/08 13:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:48/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	5.1	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.2	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-003
 Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
 Collection Date: 03/24/08 12:45
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:04/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.36					1	A1030 E	06/18/08 00:00/ADM
Anions	2.17	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	2.37	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	162	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.86					1	A1030 E	06/18/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	28	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Bicarbonate as HCO3	34	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Calcium	18.2	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Chloride	8	mg/L		1		1	E300.0	03/26/08 14:21/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	03/26/08 14:21/jmh
Magnesium	11.1	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 14:21/jmh
Potassium	15	mg/L		1		2	E200.7	04/10/08 13:07/eli-c
Silica	1.6	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Sodium	13.7	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Sulfate	95	mg/L		1		1	E300.0	03/26/08 14:21/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	297	umhos/cm		5.0		1	A2510 B	03/26/08 11:14/jmh
pH	8.42	s.u.		0.01		1	A4500-H B	03/26/08 15:39/jmh
Sodium Adsorption Ratio (SAR)	0.62	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	119	mg/L		5		1	D3977	03/25/08 10:42/jmh
Solids, Total Dissolved TDS @ 180 C	250	mg/L		5		1	A2540 C	03/31/08 08:40/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	03/28/08 08:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:40/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:40/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:40/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	04/10/08 13:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	04/10/08 13:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 04/13/08 12:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/13/08 12:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/13/08 12:40/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8 04/13/08 12:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/10/08 13:07/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 04/10/08 13:07/eli-c
METALS - SUSPENDED							
Thorium 232	0.001	mg/L		0.001		1	E200.8 04/13/08 14:00/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8 04/13/08 14:00/eli-c
METALS - TOTAL							
Aluminum	4.8	mg/L		0.1		2	E200.7 04/09/08 16:23/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 04/10/08 19:27/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/09/08 16:23/eli-c
Boron	0.1	mg/L		0.1		2	E200.7 04/09/08 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/10/08 19:27/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/09/08 16:23/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B 03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 06/16/08 00:00/ADM
Copper	0.01	mg/L		0.01		1	E200.8 04/10/08 19:27/eli-c
Iron	3.60	mg/L		0.03		2	E200.7 04/09/08 16:23/eli-c
Lead	0.004	mg/L		0.001		1	E200.8 04/10/08 19:27/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7 04/09/08 16:23/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 04/09/08 16:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/10/08 19:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/10/08 19:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/10/08 19:27/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8 04/10/08 19:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/09/08 16:23/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8 04/10/08 19:27/eli-c
Calcium	19.1	mg/L		0.5		2	E200.7 04/09/08 16:23/eli-c
Magnesium	12.2	mg/L		0.5		2	E200.7 04/09/08 16:23/eli-c
Potassium	17.0	mg/L		0.5		2	E200.7 04/09/08 16:23/eli-c
Silica	19.5	mg/L		0.5		2	E200.7 04/09/08 16:23/eli-c
Sodium	13.4	mg/L		0.5		2	E200.7 04/09/08 16:23/eli-c
METALS - DISSOLVED - SPECIATED							

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-004
 Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
 Collection Date: 03/24/08 16:25
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 04/01/08 13:38/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/01/08 09:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED							
Selenium	0.001	mg/L		0.001		1	A3114 B 04/01/08 13:54/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/01/08 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.03	pCi/L	U			1	E903.0 04/19/08 22:13/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 04/19/08 22:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 04/19/08 22:13/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	0.5	pCi/L	U			1	E903.0 04/13/08 12:00/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 04/13/08 12:00/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0 04/13/08 12:00/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0 04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	1.2	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.8	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta	14.7	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1 04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	0.5	pCi/L				1	E903.0 04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 04/20/08 17:48/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0 04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 04/20/08 17:48/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-004
 Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
 Collection Date: 03/24/08 16:25
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/18/08 14:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	0.0400					1	A1030 E	06/18/08 00:00/ADM
Anions	2.82	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	2.82	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	184	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.37					1	A1030 E	06/18/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-005
 Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
 Collection Date: 03/24/08 17:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	54	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Bicarbonate as HCO3	66	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Calcium	248	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Chloride	32	mg/L	D	5		50	E300.0	03/26/08 15:07/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/26/08 15:53/jmh
Magnesium	103	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 15:53/jmh
Potassium	41	mg/L		1		2	E200.7	04/10/08 13:17/eli-c
Silica	ND	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Sodium	208	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Sulfate	1210	mg/L	D	3		50	E300.0	03/26/08 15:07/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	03/26/08 11:15/jmh
pH	8.19	s.u.		0.01		1	A4500-H B	03/26/08 15:40/jmh
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	195	mg/L		5		1	D3977	03/25/08 10:42/jmh
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	03/31/08 08:41/mb
Solids, Total Suspended TSS @ 105 C	250	mg/L		5		1	A2540 D	03/28/08 08:07/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:47/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:47/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:47/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/10/08 13:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7	04/10/08 13:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-005
 Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
 Collection Date: 03/24/08 17:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Nickel	ND	mg/L		0.01		1	E200.8 04/13/08 12:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/13/08 12:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/13/08 12:47/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8 04/13/08 12:47/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/10/08 13:17/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 04/10/08 13:17/eli-c
METALS - SUSPENDED							
Thorium 232	0.003	mg/L		0.001		1	E200.8 04/13/08 14:07/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8 04/13/08 14:07/eli-c
METALS - TOTAL							
Aluminum	3.0	mg/L		0.1		2	E200.7 04/09/08 16:26/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 04/10/08 19:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/09/08 16:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7 04/09/08 16:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/10/08 19:54/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/09/08 16:26/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B 03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation 06/16/08 00:00/ADM
Copper	0.01	mg/L		0.01		1	E200.8 04/10/08 19:54/eli-c
Iron	2.89	mg/L		0.03		2	E200.7 04/09/08 16:26/eli-c
Lead	0.003	mg/L		0.001		1	E200.8 04/10/08 19:54/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7 04/09/08 16:26/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 04/09/08 16:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/10/08 19:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/10/08 19:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/10/08 19:54/eli-c
Uranium	0.0033	mg/L		0.0003		1	E200.8 04/10/08 19:54/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/09/08 16:26/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8 04/10/08 19:54/eli-c
Calcium	255	mg/L		0.5		2	E200.7 04/09/08 16:26/eli-c
Magnesium	105	mg/L		0.5		2	E200.7 04/09/08 16:26/eli-c
Potassium	42.3	mg/L		0.5		2	E200.7 04/09/08 16:26/eli-c
Silica	10.4	mg/L		0.5		2	E200.7 04/09/08 16:26/eli-c
Sodium	209	mg/L		0.5		2	E200.7 04/09/08 16:26/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-005
 Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
 Collection Date: 03/24/08 17:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 04/01/08 13:41/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/01/08 09:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 04/01/08 13:56/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/01/08 09:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.1	pCi/L	U			1	E903.0 04/19/08 23:43/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 04/19/08 23:43/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 04/19/08 23:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	1.1	pCi/L				1	E903.0 04/13/08 13:30/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 04/13/08 13:30/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0 04/13/08 13:30/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0 04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	9.0	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Alpha MDC	6.7	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta	36.5	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta precision (±)	5.6	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Beta MDC	8.3	pCi/L				1	E900.0 04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1 04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1 04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	1.2	pCi/L				1	E903.0 04/20/08 17:48/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 04/20/08 17:48/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0 04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 04/20/08 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030252-005
 Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
 Collection Date: 03/24/08 17:10
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/11/08 08:19/eli-b
DATA QUALITY								
A/C Balance (± 5)	6.52					1	A1030 E	06/18/08 00:00/ADM
Anions	27.1	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	30.9	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	1870	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.10					1	A1030 E	06/18/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080328A-ALK-SEL-W		
Sample ID: MBLK1_080328A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
						Run: PH_COND1-R_080328A			03/28/08 11:41
Sample ID: LCS1_080328A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110			03/28/08 11:46
						Run: PH_COND1-R_080328A			03/28/08 13:15
Sample ID: R08030251-004BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 110	mg/L	5.0	104	80	120			03/28/08 13:16
						Run: PH_COND1-R_080328A			03/28/08 13:16
Sample ID: R08030251-004BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 110	mg/L	5.0	104	80	120	0.0	10	
Method: A2510 B							Batch: 080326_1_COND-PROBE-W		
Sample ID: LCS1-1_080326 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			03/26/08 11:04
						Run: PH_COND2-R_080326A			03/26/08 11:05
Sample ID: LCS2-1_080326 Conductivity @ 25 C	Laboratory Control Sample 4700	umhos/cm	5.0	94	90	110			03/26/08 11:05
						Run: PH_COND2-R_080326A			03/26/08 11:05
Sample ID: LCS_COND-1_080326 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			03/26/08 11:06
						Run: PH_COND2-R_080326A			03/26/08 11:08
Sample ID: MBLK-1_080326 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						03/26/08 11:08
						Run: PH_COND2-R_080326A			03/26/08 11:08
Sample ID: R08030228-001ADUP Conductivity @ 25 C	Sample Duplicate 3490	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080331A-SLDS-TDS-W		
Sample ID: LCS1_080331A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			03/31/08 08:28
Sample ID: MBLK1_080331A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						03/31/08 08:30
Sample ID: R08030251-001BMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1700	mg/L	5.0	110	80	120			03/31/08 08:33
Sample ID: R08030251-001BMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1700	mg/L	5.0	114	80	120	0.5	10	03/31/08 08:34
Sample ID: R08030253-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	2300	mg/L	5.0	106	80	120			03/31/08 08:44
Sample ID: R08030253-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	2300	mg/L	5.0	117	80	120	1.0	10	03/31/08 08:44
Method: A2540 D							Batch: 080328A-SLDS-TSS-W		
Sample ID: MBLK1_080328A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						03/28/08 07:57
Sample ID: LCS1_080328A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	91	85	115			03/28/08 07:57
Method: A3114 B							Batch: C_SE-3114-080401B		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	6E-05						04/01/08 13:12
Sample ID: 288-48-5	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	100	90	110			04/01/08 13:14
Sample ID: C08031120-001EMS	Sample Matrix Spike								
Selenium	0.054	mg/L	0.0010	108	85	115			04/01/08 13:21
Sample ID: C08031120-001EMSD	Sample Matrix Spike Duplicate								
Selenium	0.054	mg/L	0.0010	107	85	115	0.7	10	04/01/08 13:23
Sample ID: R08030252-003H	Sample Matrix Spike								
Selenium	0.054	mg/L	0.0010	106	85	115			04/01/08 13:49
Sample ID: R08030252-003H	Sample Matrix Spike Duplicate								
Selenium	0.053	mg/L	0.0010	105	85	115	0.7	10	04/01/08 13:51

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV-3114-080401		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05						
						Run: SUB-C98894			04/01/08 09:16
Sample ID: 288-48-5 Selenium-IV	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			04/01/08 09:18
						Run: SUB-C98894			04/01/08 09:24
Sample ID: C08031120-001EMS Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	92	85	115			04/01/08 09:27
						Run: SUB-C98894			04/01/08 09:27
Sample ID: C08031120-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.045 mg/L		0.0010	91	85	115	1.1	10	
						Run: SUB-C98894			04/01/08 09:27
Method: A3500-Cr B							Batch: 080211A-CR-HEX-W		
Sample ID: MBLK1_080211A Chromium, Hexavalent	Method Blank 0.007 mg/L		0.005						
						Run: SPEC1_080325A			03/19/08 12:07
Sample ID: LCS1_080211A Chromium, Hexavalent	Laboratory Control Sample 0.18 mg/L		0.0050	88	80	120			03/20/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Sample ID: R08030252-001EMS Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.010	97	80	120			03/22/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Sample ID: R08030252-002EMS Chromium, Hexavalent	Sample Matrix Spike 0.16 mg/L		0.050	82	80	120			03/22/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Sample ID: R08030252-003EMS Chromium, Hexavalent	Sample Matrix Spike 0.21 mg/L		0.010	107	80	120			03/22/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Sample ID: R08030252-004EMS Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.010	100	80	120			03/22/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Sample ID: R08030252-005EMS Chromium, Hexavalent	Sample Matrix Spike 0.21 mg/L		0.010	105	80	120			03/22/08 12:07
						Run: SPEC1_080325A			03/22/08 12:07
Method: A4500-H B							Batch: 080326_1_PH-W		
Sample ID: LCS_pH-1_080326 pH	Laboratory Control Sample 6.94 s.u.		0.010	101	98.55	101.45			
						Run: PH_COND2-R_080326B			03/26/08 15:31
Sample ID: R08030252-001CDUP pH	Sample Duplicate 6.69 s.u.		0.010				0.1	1.25	
						Run: PH_COND2-R_080326B			03/26/08 15:35

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-03-28_2_NH3_01		
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			03/28/08 12:26
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	90	110			03/28/08 12:27
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						03/28/08 12:37
Sample ID: R08030251-003CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	80	120			03/28/08 14:05
Sample ID: R08030253-002BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.46	mg/L	0.10	86	80	120			03/28/08 14:19
Sample ID: R08030253-002BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.47	mg/L	0.10	91	80	120	2.4	10	03/28/08 14:21
Method: A9222 D							Batch: 080325-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank								
Bacteria, Fecal Coliform	ND	CFU/100ml	1						03/25/08 08:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18166		
Sample ID: MB-18166	Method Blank		Run: SUB-C99401			04/09/08 15:00			
Aluminum	0.1	mg/L	0.0007						
Barium	ND	mg/L	0.004						
Boron	ND	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Molybdenum	ND	mg/L	0.01						
Vanadium	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	ND	mg/L	0.1						
Sample ID: LCS-18166	Laboratory Control Sample		Run: SUB-C99401			04/09/08 15:04			
Aluminum	0.580	mg/L	0.10	116	85	115			
Barium	0.498	mg/L	0.10	100	85	115			
Boron	0.496	mg/L	0.10	99	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Copper	0.484	mg/L	0.010	97	85	115			
Iron	0.508	mg/L	0.030	102	85	115			
Manganese	0.487	mg/L	0.010	97	85	115			
Molybdenum	0.493	mg/L	0.10	99	85	115			
Vanadium	0.517	mg/L	0.10	103	85	115			
Calcium	52.8	mg/L	1.0	106	85	115			
Magnesium	52.8	mg/L	1.0	106	85	115			
Potassium	49.8	mg/L	1.0	100	85	115			
Silica	0.553	mg/L	0.10	111	85	115			
Sodium	51.0	mg/L	1.0	102	85	115			
Sample ID: C08031189-006D MS	Sample Matrix Spike		Run: SUB-C99401			04/09/08 15:31			
Aluminum	0.508	mg/L	0.10	98	70	130			
Barium	0.556	mg/L	0.10	98	70	130			
Boron	0.504	mg/L	0.10	99	70	130			
Chromium	0.493	mg/L	0.050	99	70	130			
Copper	0.474	mg/L	0.010	95	70	130			
Iron	0.542	mg/L	0.030	97	70	130			
Manganese	0.478	mg/L	0.010	95	70	130			
Molybdenum	0.508	mg/L	0.10	98	70	130			
Vanadium	0.502	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18166		
Sample ID: C08031189-006D MS	Sample Matrix Spike			Run: SUB-C99401			04/09/08 15:31		
Calcium	108	mg/L	1.0	99	70	130			
Magnesium	73.2	mg/L	1.0	98	70	130			
Potassium	51.8	mg/L	1.0	98	70	130			
Silica	14.9	mg/L	0.10		70	130			A
Sodium	62.7	mg/L	1.0	100	70	130			
Sample ID: C08031189-006D MSD	Sample Matrix Spike Duplicate			Run: SUB-C99401			04/09/08 15:34		
Aluminum	0.512	mg/L	0.10	99	70	130	0.8	20	
Barium	0.557	mg/L	0.10	99	70	130	0.2	20	
Boron	0.505	mg/L	0.10	99	70	130	0.2	20	
Chromium	0.497	mg/L	0.050	99	70	130	0.7	20	
Copper	0.469	mg/L	0.010	94	70	130	1.1	20	
Iron	0.543	mg/L	0.030	97	70	130	0.2	20	
Manganese	0.480	mg/L	0.010	95	70	130	0.4	20	
Molybdenum	0.510	mg/L	0.10	98	70	130	0.4	20	
Vanadium	0.500	mg/L	0.10	100	70	130	0.4	20	
Calcium	108	mg/L	1.0	99	70	130	0.2	20	
Magnesium	73.1	mg/L	1.0	98	70	130	0.1	20	
Potassium	51.3	mg/L	1.0	97	70	130	1.0	20	
Silica	14.8	mg/L	0.10		70	130	0.7	20	A
Sodium	62.2	mg/L	1.0	99	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99463		
Sample ID: MB-080410A	Method Blank		Run: SUB-C99463			04/10/08 11:40			
Silica	0.2	mg/L		0.06					
Aluminum	ND	mg/L		0.008					
Boron	ND	mg/L		0.004					
Calcium	ND	mg/L		0.04					
Chromium	ND	mg/L		0.003					
Iron	0.02	mg/L		0.002					
Magnesium	ND	mg/L		0.04					
Manganese	ND	mg/L		0.0004					
Molybdenum	ND	mg/L		0.01					
Potassium	ND	mg/L		0.08					
Sodium	ND	mg/L		0.06					
Vanadium	ND	mg/L		0.006					
Zinc	ND	mg/L		0.004					
Sample ID: LFB-080410A	Laboratory Fortified Blank		Run: SUB-C99463			04/10/08 11:44			
Silica	1.3	mg/L	0.10	117	85	125			
Aluminum	0.94	mg/L	0.10	94	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Chromium	0.94	mg/L	0.050	94	85	125			
Iron	0.93	mg/L	0.030	91	85	125			
Magnesium	51	mg/L	0.50	102	85	125			
Manganese	0.92	mg/L	0.010	92	85	125			
Molybdenum	0.99	mg/L	0.10	99	85	125			
Potassium	48	mg/L	0.50	96	85	125			
Sodium	49	mg/L	0.50	98	85	125			
Vanadium	0.98	mg/L	0.10	98	85	125			
Zinc	0.95	mg/L	0.010	95	85	125			
Sample ID: R08030252-004A	Sample Matrix Spike		Run: SUB-C99463			04/10/08 13:10			
Aluminum	1.86	mg/L	0.10	90	70	130			
Boron	1.94	mg/L	0.10	90	70	130			
Chromium	1.84	mg/L	0.050	90	70	130			
Iron	1.86	mg/L	0.030	89	70	130			
Manganese	1.82	mg/L	0.010	89	70	130			
Molybdenum	1.96	mg/L	0.10	96	70	130			
Vanadium	1.91	mg/L	0.10	94	70	130			
Zinc	1.88	mg/L	0.010	92	70	130			
Calcium	118	mg/L	1.0	98	70	130			
Magnesium	110	mg/L	1.0	97	70	130			
Potassium	109	mg/L	1.0	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99463		
Sample ID: R08030252-004A	Sample Matrix Spike			Run: SUB-C99463			04/10/08 13:10		
Silica	3.56	mg/L	0.12	96	70	130			
Sodium	110	mg/L	1.0	94	70	130			
Sample ID: R08030252-004A	Sample Matrix Spike Duplicate			Run: SUB-C99463			04/10/08 13:14		
Aluminum	1.92	mg/L	0.10	93	70	130	3.0	20	
Boron	2.03	mg/L	0.10	94	70	130	4.1	20	
Chromium	1.90	mg/L	0.050	93	70	130	3.1	20	
Iron	1.93	mg/L	0.030	93	70	130	3.7	20	
Manganese	1.90	mg/L	0.010	93	70	130	3.8	20	
Molybdenum	1.97	mg/L	0.10	97	70	130	0.7	20	
Vanadium	1.99	mg/L	0.10	98	70	130	4.1	20	
Zinc	1.96	mg/L	0.010	96	70	130	3.9	20	
Calcium	118	mg/L	1.0	98	70	130	0.0	20	
Magnesium	111	mg/L	1.0	98	70	130	0.2	20	
Potassium	110	mg/L	1.0	92	70	130	0.2	20	
Silica	3.60	mg/L	0.12	98	70	130	1.2	20	
Sodium	110	mg/L	1.0	94	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18166		
Sample ID: MB-18166	Method Blank				Run: SUB-C99461		04/10/08 17:52		
Arsenic	0.0004	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Copper	ND	mg/L	0.0002						
Lead	1E-05	mg/L							
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	5E-05						
Thorium 232	0.0001	mg/L	7E-05						
Uranium	0.00010	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-18166	Laboratory Control Sample				Run: SUB-C99461		04/10/08 17:59		
Arsenic	0.0201	mg/L	0.0010	99	80	120			
Cadmium	0.0203	mg/L	0.010	101	80	120			
Copper	0.0199	mg/L	0.010	99	80	120			
Lead	0.0212	mg/L	0.050	106	80	120			
Nickel	0.0199	mg/L	0.050	99	80	120			
Silver	0.0207	mg/L	0.010	103	80	120			
Thorium 232	0.0188	mg/L	0.0010	93	80	120			
Uranium	0.0200	mg/L	0.00030	100	80	120			
Zinc	0.0229	mg/L	0.010	104	80	120			
Sample ID: C08031189-006DMS4	Post Digestion Spike				Run: SUB-C99461		04/10/08 20:42		
Arsenic	0.0215	mg/L	0.0010	104	70	130			
Cadmium	0.0209	mg/L	0.010	104	70	130			
Copper	0.0219	mg/L	0.010	99	70	130			
Lead	0.0206	mg/L	0.050	101	70	130			
Nickel	0.0212	mg/L	0.050	101	70	130			
Silver	0.0213	mg/L	0.010	106	70	130			
Thorium 232	0.0202	mg/L	0.0010	101	70	130			
Uranium	0.471	mg/L	0.00030		70	130			A
Zinc	0.0253	mg/L	0.010	100	70	130			
Sample ID: C08031189-006DMSD4	Post Digestion Spike Duplicate				Run: SUB-C99461		04/10/08 20:48		
Arsenic	0.0219	mg/L	0.0010	106	70	130	1.8	20	
Cadmium	0.0208	mg/L	0.010	104	70	130	0.7	20	
Copper	0.0221	mg/L	0.010	99	70	130	0.5	20	
Lead	0.0208	mg/L	0.050	102	70	130	0.0	20	
Nickel	0.0208	mg/L	0.050	99	70	130	0.0	20	
Silver	0.0210	mg/L	0.010	105	70	130	1.6	20	
Thorium 232	0.0205	mg/L	0.0010	103	70	130	1.7	20	
Uranium	0.474	mg/L	0.00030		70	130	0.5	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18166		
Sample ID: C08031189-006DMSD4	Post Digestion Spike Duplicate			Run: SUB-C99461		04/10/08 20:48			
Zinc	0.0281	mg/L	0.010	114	70	130	11	20	
Method: E200.8							Batch: C_18171		
Sample ID: MB-18171	Method Blank			Run: SUB-C99526		04/13/08 13:14			
Thorium 232	0.0003	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS1-18171	Laboratory Control Sample			Run: SUB-C99526		04/13/08 13:21			
Uranium	0.0509	mg/L	0.00030	97	80	120			
LCS1 was not spiked with thorium.									
Sample ID: R08030252-005K	Post Digestion Spike			Run: SUB-C99526		04/13/08 14:13			
Thorium 232	0.0270	mg/L	0.0010	96	70	130			
Uranium	0.0246	mg/L	0.00030	96	70	130			
Sample ID: R08030252-005K	Post Digestion Spike Duplicate			Run: SUB-C99526		04/13/08 14:40			
Thorium 232	0.0267	mg/L	0.0010	95	70	130	1.0	20	
Uranium	0.0243	mg/L	0.00030	95	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99526		
Sample ID: LRB	Method Blank		Run: SUB-C99526			04/13/08 11:49			
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	4E-05	mg/L	3E-05						
Thorium 232	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C99526			04/13/08 11:54			
Arsenic	0.0522	mg/L	0.0010	104	85	115			
Barium	0.0518	mg/L	0.0010	103	85	115			
Cadmium	0.0518	mg/L	0.0010	104	85	115			
Copper	0.0501	mg/L	0.0010	100	85	115			
Lead	0.0519	mg/L	0.0010	104	85	115			
Mercury	0.00510	mg/L	0.0010	102	85	115			
Nickel	0.0519	mg/L	0.0010	104	85	115			
Silver	0.0215	mg/L	0.0010	107	85	115			
Thorium 232	0.0496	mg/L	0.0010	99	85	115			
Uranium	0.0499	mg/L	0.00030	100	85	115			
Sample ID: C08040139-004AMS4	Post Digestion Spike		Run: SUB-C99526			04/13/08 15:14			
Arsenic	0.109	mg/L	0.0010	105	70	130			
Barium	0.155	mg/L	0.10	95	70	130			
Cadmium	0.0469	mg/L	0.010	93	70	130			
Copper	0.0455	mg/L	0.010	87	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Nickel	0.0507	mg/L	0.050	92	70	130			
Silver	0.0183	mg/L	0.010	91	70	130			
Thorium 232	0.0539	mg/L	0.0010	108	70	130			
Uranium	0.0915	mg/L	0.00030	113	70	130			
Sample ID: C08040139-004AMSD4	Post Digestion Spike Duplicate		Run: SUB-C99526			04/13/08 15:21			
Arsenic	0.108	mg/L	0.0010	103	70	130	0.9	20	
Barium	0.156	mg/L	0.10	97	70	130	0.8	20	
Cadmium	0.0468	mg/L	0.010	93	70	130	0.0	20	
Copper	0.0453	mg/L	0.010	86	70	130	0.4	20	
Lead	0.0509	mg/L	0.050	102	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99526		
Sample ID: C08040139-004AMSD4	Post Digestion Spike Duplicate			Run: SUB-C99526			04/13/08 15:21		
Mercury	0.00522	mg/L	0.0010	104	70	130	1.2	20	
Nickel	0.0507	mg/L	0.050	92	70	130	0.0	20	
Silver	0.0185	mg/L	0.010	92	70	130	1.2	20	
Thorium 232	0.0542	mg/L	0.0010	108	70	130	0.6	20	
Uranium	0.0899	mg/L	0.00030	110	70	130	1.7	20	
Method: E245.1							Batch: C_B_31842		
Sample ID: MB-31842	Method Blank			Run: SUB-C99444			04/10/08 12:28		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31842	Laboratory Fortified Blank			Run: SUB-C99444			04/10/08 12:31		
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08040061-002BMS	Sample Matrix Spike			Run: SUB-C99444			04/10/08 13:33		
Mercury	0.0020	mg/L	0.0010	98	70	130			
Sample ID: B08040061-002BMSD	Sample Matrix Spike Duplicate			Run: SUB-C99444			04/10/08 13:35		
Mercury	0.0021	mg/L	0.0010	103	70	130	4.5	30	
Sample ID: B08031945-002BMS	Sample Matrix Spike			Run: SUB-C99444			04/10/08 12:58		
Mercury	0.0018	mg/L	0.00020	90	70	130			
Sample ID: B08031945-002BMSD	Sample Matrix Spike Duplicate			Run: SUB-C99444			04/10/08 13:00		
Mercury	0.0019	mg/L	0.00020	93	70	130	2.2	10	
Method: E245.1							Batch: C_B_31854		
Sample ID: MB-31854	Method Blank			Run: SUB-C99521			04/11/08 08:14		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31854	Laboratory Fortified Blank			Run: SUB-C99521			04/11/08 08:16		
Mercury	0.0018	mg/L	0.0010	88	85	115			
Sample ID: R08030252-005B	Sample Matrix Spike			Run: SUB-C99521			04/11/08 08:21		
Mercury	0.0018	mg/L	0.0010	88	70	130			
Sample ID: R08030252-005B	Sample Matrix Spike Duplicate			Run: SUB-C99521			04/11/08 08:23		
Mercury	0.0019	mg/L	0.0010	94	70	130	6.6	30	
Method: E245.1							Analytical Run: SUB-C99444		
Sample ID: QCS	Initial Calibration Verification Standard						04/10/08 12:12		
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E245.1							Analytical Run: SUB-C99521			
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury	0.0018	mg/L	0.0010	91	90	110			04/11/08 08:03	
Method: E245.1							Analytical Run: SUB-C99880			
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury	0.0020	mg/L	0.0010	101	90	110			04/18/08 11:37	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33953		
Sample ID: LFB0803265758-3	Laboratory Fortified Blank			Run: DIONEX_080326A			03/26/08 11:31		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0803265758-4	Laboratory Fortified Blank			Run: DIONEX_080326A			03/26/08 11:46		
Chloride	4.92	mg/L	0.50	98	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08030252-001CMS	Sample Matrix Spike			Run: DIONEX_080326A			03/26/08 12:17		
Chloride	250	mg/L	5.4	94	80	120			
Fluoride	105	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	704	mg/L	3.4	83	80	120			
Sample ID: R08030252-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080326A			03/26/08 12:33		
Chloride	239	mg/L	5.4	90	80	120	4.3	10	
Fluoride	101	mg/L	0.56	96	80	120	3.5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	4.7	10	
Sulfate	701	mg/L	3.4	83	80	120	0.4	10	
Sample ID: R08030252-005CMS	Sample Matrix Spike			Run: DIONEX_080326A			03/26/08 15:22		
Chloride	262	mg/L	5.4	92	80	120			
Fluoride	106	mg/L	0.56	101	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Sulfate	1920	mg/L	3.4	95	80	120			
Sample ID: R08030252-005CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080326A			03/26/08 15:38		
Chloride	252	mg/L	5.4	88	80	120	4.0	10	
Fluoride	102	mg/L	0.56	97	80	120	4.0	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	4.6	10	
Sulfate	1830	mg/L	3.4	83	80	120	4.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0421		
Sample ID: MB-GrAB-0421	Method Blank								
Gross Alpha	-0.3	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0421	Laboratory Control Sample								
Gross Alpha	290	pCi/L	120		70	130			
Sample ID: C08031229-001AMS	Sample Matrix Spike								
Gross Beta	99	pCi/L	106		70	130			
Sample ID: C08031229-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	96	pCi/L	102		70	130	3.7	15.6	
Sample ID: C08031215-001AIDUP	Sample Duplicate								
Gross Alpha	180	pCi/L					4.7	22.9	
Gross Beta	92.9	pCi/L					4.8	21.2	

Qualifiers:

RL - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample			Run: SUB-C99476			04/04/08 16:45		
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank			Run: SUB-C99476			04/04/08 16:45		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Method: E903.0							Batch: C_R99766		
Sample ID: C08031096-006AMS	Sample Matrix Spike			Run: SUB-C99766			04/12/08 23:58		
Radium 226	73.3	pCi/Filter	106		70	130			
Sample ID: C08031096-006AMSD	Sample Matrix Spike Duplicate			Run: SUB-C99766			04/13/08 01:28		
Radium 226	71.9	pCi/Filter	104		70	130	1.8	25.2	
Sample ID: LCS-18171	Laboratory Control Sample			Run: SUB-C99766			04/13/08 22:32		
Radium 226	12	pCi/L	89		70	130			
Sample ID: MB-18171	Method Blank			Run: SUB-C99766			04/14/08 00:02		
Radium 226	0.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2718		
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C99973			04/20/08 12:08	
Radium 226	6.0	pCi/L		92	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C99973			04/20/08 13:38	
Radium 226	6.5	pCi/L		99	70	130	7.5	25.7	
Sample ID: MB-RA226-2718	Method Blank				Run: SUB-C99973			04/20/08 15:08	
Radium 226	-0.02	pCi/L							U
Sample ID: LCS-RA226-2718	Laboratory Control Sample				Run: SUB-C99973			04/20/08 16:39	
Radium 226	6.5	pCi/L		102	70	130			
Method: E907.0							Batch: C_18171		
Sample ID: C08031096-005AMS	Sample Matrix Spike				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	47.2	pCi/Filter	0.20	93	70	130			
Sample ID: C08031096-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	47.3	pCi/Filter	0.20	94	70	130	0.2	30	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	43.2	pCi/Filter	0.20	89	70	130			
Sample ID: MB-18171	Method Blank				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	0.2	pCi/Filter							
Method: E907.0							Batch: C_R99362		
Sample ID: LCS-R99362	Laboratory Control Sample				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	8.20	pCi/L	0.20	116	70	130			
Sample ID: C08030555-001HMS	Sample Matrix Spike				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	13.7	pCi/L	0.20	121	70	130			
Sample ID: C08030555-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	13.2	pCi/L	0.20	116	70	130	3.7	30	
Sample ID: MB-R99362	Method Blank				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. River Trail Dairy Burdock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Cory Foreman	Phone/Fax: 650.925.2222	Email:	Sampler: (Please Print) Eric Kantz
Invoice Address: RESPEC		Invoice Contact & Phone:		Purchase Order:	Quota/Bottle Order:
Special Report/Formats - EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1 Dew Burd GW 65D		03/24/08	0900	SEE ATTACHED	
2 Dew Burd GW 65D		03/24/08	1030	Normal Turnaround (TAT)	
3 Dew Burd SUB 11		03/24/08	11:10	R U S H	
4 Dew Burd SUB 7		03/24/08	11:55	Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
5 Dew Burd SUB 1		03/24/08	12:45	Comments:	
6 Dew Burd GW 619		03/24/08	15:40	Set 5 GW	
7 Dew Burd SUB 9		03/24/08	16:25	Set 12 SW	
8 Dew Burd SUB 10		03/24/08	17:10	Set 4 SW	
9 Dew Burd SUB 10		03/24/08	17:10	Set 5W	
10				Set 19 GW	
11				Set 10 SW	
12				Set 13 SW	
13				Set 19 GW	
14				Set 10 SW	
15				Set 13 SW	
16				Set 19 GW	
17				Set 10 SW	
18				Set 13 SW	
19				Set 19 GW	
20				Set 10 SW	
21				Set 13 SW	
22				Set 19 GW	
23				Set 10 SW	
24				Set 13 SW	
25				Set 19 GW	
26				Set 10 SW	
27				Set 13 SW	
28				Set 19 GW	
29				Set 10 SW	
30				Set 13 SW	
31				Set 19 GW	
32				Set 10 SW	
33				Set 13 SW	
34				Set 19 GW	
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90				Set 13 SW	
91				Set 19 GW	
92				Set 10 SW	
93				Set 13 SW	
94				Set 19 GW	
95				Set 10 SW	
96				Set 13 SW	
97				Set 19 GW	
98				Set 10 SW	
99				Set 13 SW	
100				Set 19 GW	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040178 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 4/15/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040178-001	DewBurd CHR05	04/14/08 11:00	04/15/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08040178-002	DewBurd CHR05	04/14/08 11:05	04/15/08	Aqueous	Same As Above
R08040178-003	DewBurd BVC04	04/14/08 14:55	04/15/08	Aqueous	Same As Above
R08040178-004	DewBurd BVC01	04/14/08 18:43	04/15/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.



If you have any questions regarding these tests results, please call.

Report Approved By:

A handwritten signature in black ink, appearing to read "Linda Larson", written over a horizontal line.

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-001
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:00
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2			2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS									
Alkalinity, Total as CaCO3	164	mg/L		5			1	A2320 B	04/16/08 12:06/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/16/08 12:06/mb
Bicarbonate as HCO3	200	mg/L		5			1	A2320 B	04/16/08 12:06/mb
Calcium	407	mg/L		0.5			2	E200.7	05/05/08 11:20/eli-c
Chloride	780	mg/L	D	5			50	E300.0	04/16/08 18:41/jmh
Fluoride	ND	mg/L		0.1			1	E300.0	04/16/08 19:27/jmh
Magnesium	127	mg/L		0.5			2	E200.7	05/05/08 11:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	04/17/08 14:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	04/16/08 19:27/jmh
Potassium	8	mg/L		1			2	E200.7	05/05/08 11:20/eli-c
Silica	3.4	mg/L		0.5			2	E200.7	05/05/08 11:20/eli-c
Sodium	572	mg/L		0.5			2	E200.7	05/05/08 11:20/eli-c
Sulfate	1540	mg/L	D	3			50	E300.0	04/16/08 18:41/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	5150	umhos/cm		5.0			1	A2510 B	04/21/08 16:53/jmh
pH	8.10	s.u.		0.01			1	A4500-H B	04/21/08 16:28/jmh
Sodium Adsorption Ratio (SAR)	6.3	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	15	mg/L		5			1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		5			1	A2540 C	04/16/08 16:22/mb
Solids, Total Suspended TSS @ 105 C	19	mg/L		5			1	A2540 D	04/16/08 08:25/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/05/08 11:20/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	05/07/08 00:30/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/07/08 00:30/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	05/05/08 11:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/07/08 00:30/eli-c
Chromium	ND	mg/L		0.01			2	E200.7	05/05/08 11:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/07/08 00:30/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/05/08 11:20/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/07/08 00:30/eli-c
Manganese	0.59	mg/L		0.01			2	E200.7	05/05/08 11:20/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/07/08 00:30/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/05/08 11:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-001
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:00
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/07/08 00:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:30/eli-c
Uranium	0.0134	mg/L		0.0003		1	E200.8	05/07/08 00:30/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 11:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:18/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	05/01/08 20:18/eli-c
METALS - TOTAL								
Aluminum	0.4	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:05/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Iron	0.36	mg/L		0.03		2	E200.7	04/29/08 00:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:05/eli-c
Manganese	0.73	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Mercury	ND	mg/L		0.0006		1	E200.8	04/26/08 01:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Uranium	0.0141	mg/L		0.0003		1	E200.8	04/26/08 01:05/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Calcium	430	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Magnesium	138	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Potassium	8.4	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Silica	5.4	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Sodium	634	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-001
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:00
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 04/18/08 14:24/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/18/08 10:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 04/18/08 14:41/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/18/08 10:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.1	pCi/L	U			1	E903.0 05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 05/06/08 09:47/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 04/22/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 04/22/08 15:00/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	0.3	pCi/L	U			1	E903.0 05/05/08 06:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 05/05/08 06:45/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0 05/05/08 06:45/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0 04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	19.8	pCi/L				1	E900.0 05/09/08 01:51/eli-c
Gross Alpha precision (±)	10.0	pCi/L				1	E900.0 05/09/08 01:51/eli-c
Gross Alpha MDC	13.8	pCi/L				1	E900.0 05/09/08 01:51/eli-c
Gross Beta	10.2	pCi/L	U			1	E900.0 05/09/08 01:51/eli-c
Gross Beta precision (±)	8.5	pCi/L				1	E900.0 05/09/08 01:51/eli-c
Gross Beta MDC	13.9	pCi/L				1	E900.0 05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1 04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	0.4	pCi/L	U			1	E903.0 05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 05/28/08 18:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0 05/28/08 18:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-001
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:00
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:44/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.29					1	A1030 E	06/17/08 00:00/ADM
Anions	57.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	55.9	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3540	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-002
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:05
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Calcium	457	mg/L		0.5		2	E200.7	05/06/08 16:19/eli-c
Chloride	861	mg/L	D	5		50	E300.0	04/16/08 19:43/jmh
Fluoride	1.0	mg/L		0.1		1	E300.0	04/16/08 19:58/jmh
Magnesium	127	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 13:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 19:58/jmh
Potassium	8	mg/L		1		2	E200.7	05/05/08 11:33/eli-c
Silica	3.4	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Sodium	580	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Sulfate	1710	mg/L	D	3		50	E300.0	04/16/08 19:43/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5150	umhos/cm		5.0		1	A2510 B	04/21/08 16:55/jmh
pH	8.04	s.u.		0.01		1	A4500-H B	04/21/08 16:30/jmh
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	18	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	04/16/08 16:23/mb
Solids, Total Suspended TSS @ 105 C	20	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 16:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 00:37/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 11:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Manganese	0.59	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	05/06/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Uranium	0.0135	mg/L		0.0003		1	E200.8	05/07/08 00:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 20:25/eli-c
METALS - TOTAL								
Aluminum	0.4	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:12/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Iron	0.43	mg/L		0.03		2	E200.7	04/29/08 00:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:12/eli-c
Manganese	0.73	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/26/08 01:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Uranium	0.0140	mg/L		0.0003		1	E200.8	04/26/08 01:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Calcium	418	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Magnesium	134	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Potassium	9.6	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Silica	5.6	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Sodium	630	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001			1	A3114 B 04/18/08 14:30/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B 04/18/08 10:49/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B 04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001			1	A3114 B 04/18/08 14:47/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B 04/18/08 11:05/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B 04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U				1	E903.0 05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0 05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0 05/06/08 09:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0 04/22/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0 04/22/08 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L	U				1	E903.0 05/05/08 08:16/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0 05/05/08 08:16/eli-c
Radium 226 MDC	0.8	pCi/L					1	E903.0 05/05/08 08:16/eli-c
Thorium 230	0.3	pCi/L					1	E907.0 04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0 04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.9	pCi/L					1	E900.0 05/09/08 01:51/eli-c
Gross Alpha precision (±)	10.0	pCi/L					1	E900.0 05/09/08 01:51/eli-c
Gross Alpha MDC	13.9	pCi/L					1	E900.0 05/09/08 01:51/eli-c
Gross Beta	-0.1	pCi/L	U				1	E900.0 05/09/08 01:51/eli-c
Gross Beta precision (±)	8.3	pCi/L					1	E900.0 05/09/08 01:51/eli-c
Gross Beta MDC	14.0	pCi/L					1	E900.0 05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1 04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1 04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.5	pCi/L	U				1	E903.0 05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0 05/28/08 18:43/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0 05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0 05/28/08 18:43/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-002
 Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
 Collection Date: 04/14/08 11:05
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:46/eli-b
DATA QUALITY								
A/C Balance (± 5)	-3.76					1	A1030 E	06/17/08 00:00/ADM
Anions	63.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	58.8	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3860	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-003
 Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
 Collection Date: 04/14/08 14:55
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	186	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Bicarbonate as HCO3	227	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Calcium	455	mg/L		0.5		2	E200.7	05/06/08 16:56/eli-c
Chloride	1730	mg/L	D	20		200	E300.0	04/18/08 18:32/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/16/08 20:29/jmh
Magnesium	177	mg/L		0.5		2	E200.7	05/06/08 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 14:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 20:29/jmh
Potassium	6	mg/L		1		2	E200.7	05/06/08 16:56/eli-c
Silica	2.6	mg/L		0.5		2	E200.7	05/05/08 11:37/eli-c
Sodium	995	mg/L		0.5		2	E200.7	05/05/08 11:37/eli-c
Sulfate	1860	mg/L	D	3		50	E300.0	04/16/08 20:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7540	umhos/cm		5.0		1	A2510 B	04/21/08 16:56/jmh
pH	7.97	s.u.		0.01		1	A4500-H B	04/21/08 16:31/jmh
Sodium Adsorption Ratio (SAR)	10	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	40	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	5100	mg/L		5		1	A2540 C	04/16/08 16:23/mb
Solids, Total Suspended TSS @ 105 C	32	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 16:56/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:44/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	05/05/08 11:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Manganese	0.55	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-003
 Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
 Collection Date: 04/14/08 14:55
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			2	E200.7	05/06/08 16:56/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/07/08 00:44/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/07/08 00:44/eli-c
Uranium	0.0165	mg/L		0.0003			1	E200.8	05/07/08 00:44/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	05/05/08 11:37/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/06/08 16:56/eli-c
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			1	E200.8	05/01/08 20:32/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/01/08 20:32/eli-c
METALS - TOTAL									
Aluminum	0.7	mg/L		0.1			2	E200.7	04/29/08 00:15/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	04/26/08 01:19/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/29/08 00:15/eli-c
Boron	0.4	mg/L		0.1			2	E200.7	04/29/08 00:15/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/26/08 01:19/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	04/26/08 01:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005			1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01			1	E200.8	04/26/08 01:19/eli-c
Iron	0.74	mg/L		0.03			2	E200.7	04/29/08 00:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/26/08 01:19/eli-c
Manganese	0.72	mg/L		0.01			1	E200.8	04/26/08 01:19/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	04/26/08 01:19/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	04/26/08 01:19/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/26/08 01:19/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/26/08 01:19/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	04/26/08 01:19/eli-c
Uranium	0.0169	mg/L		0.0003			1	E200.8	04/26/08 01:19/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	04/26/08 01:19/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/26/08 01:19/eli-c
Calcium	401	mg/L		0.5			2	E200.7	04/29/08 00:15/eli-c
Magnesium	161	mg/L		0.5			2	E200.7	04/29/08 00:15/eli-c
Potassium	14.4	mg/L		0.5			2	E200.7	04/29/08 00:15/eli-c
Silica	6.0	mg/L		0.5			2	E200.7	04/29/08 00:15/eli-c
Sodium	1070	mg/L		0.5			2	E200.7	04/29/08 00:15/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-003
 Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
 Collection Date: 04/14/08 14:55
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:33/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 11:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.2	pCi/L	U			1	E903.0	05/05/08 09:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 09:46/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 09:46/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	23.4	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	14.2	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	20.4	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	2.8	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	11.2	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	18.8	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.3	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/28/08 18:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-003
 Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
 Collection Date: 04/14/08 14:55
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:49/eli-b
DATA QUALITY								
A/C Balance (± 5)	-6.02					1	A1030 E	06/17/08 00:00/ADM
Anions	91.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	80.8	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	5340	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	06/17/08 00:00/ADM

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-004
 Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
 Collection Date: 04/14/08 18:43
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Calcium	425	mg/L		0.5		2	E200.7	05/06/08 17:00/eli-c
Chloride	973	mg/L	D	5		50	E300.0	04/16/08 20:45/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/16/08 21:31/jmh
Magnesium	127	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 14:40/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 21:31/jmh
Potassium	10	mg/L		1		2	E200.7	05/05/08 11:40/eli-c
Silica	2.1	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Sodium	625	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Sulfate	1570	mg/L	D	3		50	E300.0	04/16/08 20:45/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5340	umhos/cm		5.0		1	A2510 B	04/21/08 16:57/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	04/21/08 16:31/jmh
Sodium Adsorption Ratio (SAR)	6.8	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	19	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	04/18/08 14:21/mb
Solids, Total Suspended TSS @ 105 C	17	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 17:00/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 11:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Manganese	0.83	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-004
 Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
 Collection Date: 04/14/08 18:43
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	05/06/08 17:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Uranium	0.0125	mg/L		0.0003		1	E200.8	05/07/08 00:50/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 20:38/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:26/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Iron	0.52	mg/L		0.03		2	E200.7	04/29/08 00:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:26/eli-c
Manganese	0.98	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/26/08 01:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Uranium	0.0127	mg/L		0.0003		1	E200.8	04/26/08 01:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Calcium	381	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Magnesium	128	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Potassium	13.0	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Silica	4.8	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Sodium	659	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-004
 Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
 Collection Date: 04/14/08 18:43
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:35/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:53/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:52/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 11:10/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.0	pCi/L	U			1	E903.0	05/05/08 11:17/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 11:17/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 11:17/eli-c
Thorium 230	0.8	pCi/L				1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.1	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	13.9	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	-27.1	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	10.3	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	18.1	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	1.1	pCi/L		0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	05/28/08 18:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040178-004
 Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
 Collection Date: 04/14/08 18:43
 Date Received: 04/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL	DF			
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.001			1	E245.1	04/24/08 16:51/eli-b
DATA QUALITY									
A/C Balance (± 5)	-3.44						1	A1030 E	06/17/08 00:00/ADM
Anions	63.4	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	59.2	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3840	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080416A-ALK-SEL-W		
Sample ID: LCS1_080416A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			04/16/08 11:25
Sample ID: R08040161-001BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 560	mg/L	5.0	98	80	120			04/16/08 11:58
Sample ID: R08040161-001BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 586	mg/L	5.0	123	80	120	4.5	10	04/16/08 12:03 S
Method: A2510 B							Batch: 080421_1_COND-PROBE-W		
Sample ID: LCS1-1_080421 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			04/21/08 16:49
Sample ID: LCS2-1_080421 Conductivity @ 25 C	Laboratory Control Sample 5100	umhos/cm	5.0	102	90	110			04/21/08 16:50
Sample ID: LCS_COND-1_080421 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			04/21/08 16:51
Sample ID: MBLK-1_080421 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						04/21/08 16:52
Sample ID: R08040178-001CDUP Conductivity @ 25 C	Sample Duplicate 5220	umhos/cm	5.0				1.4	10	04/21/08 16:54
Method: A2540 C							Batch: 080416A-SLDS-TDS-W		
Sample ID: LCS1_080416A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	101	90	110			04/16/08 16:17
Sample ID: MBLK1_080416A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						04/16/08 16:18
Sample ID: R08040178-004CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 4100	mg/L	5.0	170	80	120			04/18/08 14:22 S
Sample ID: R08040178-004CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 4100	mg/L	5.0	167	80	120	0.1	10	04/18/08 14:22 S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080416A-SLDS-TSS-W		
Sample ID: LCS1_080416A	Laboratory Control Sample				Run: BAL-4-R_080416D				04/16/08 08:18
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	98	85	115			
Sample ID: MBLK1_080416A	Method Blank				Run: BAL-4-R_080416D				04/16/08 08:19
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B							Batch: C_SE-3114-041808		
Sample ID: MBLK	Method Blank				Run: SUB-C99842				04/18/08 14:19
Selenium	ND	mg/L	6E-05						
Sample ID: 288-61-6	Laboratory Control Sample				Run: SUB-C99842				04/18/08 14:21
Selenium	0.049	mg/L	0.0010	97	90	110			
Sample ID: R08040178-001A	Sample Matrix Spike				Run: SUB-C99842				04/18/08 14:26
Selenium	0.054	mg/L	0.0010	107	85	115			
Sample ID: R08040178-001A	Sample Matrix Spike Duplicate				Run: SUB-C99842				04/18/08 14:28
Selenium	0.052	mg/L	0.0010	104	85	115	2.9	10	
Sample ID: R08040178-001H	Sample Matrix Spike				Run: SUB-C99842				04/18/08 14:43
Selenium	0.054	mg/L	0.0010	107	85	115			
Sample ID: R08040178-001H	Sample Matrix Spike Duplicate				Run: SUB-C99842				04/18/08 14:45
Selenium	0.052	mg/L	0.0010	104	85	115	2.4	10	
Sample ID: C08040476-009AMS	Sample Matrix Spike				Run: SUB-C99842				04/18/08 14:56
Selenium	0.084	mg/L	0.0010	106	85	115			
Sample ID: C08040476-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99842				04/18/08 14:58
Selenium	0.082	mg/L	0.0010	101	85	115	2.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV-3114-041808		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05						
					Run: SUB-C99823				04/18/08 10:37
Sample ID: 288-61-6 Selenium-IV	Laboratory Control Sample 0.051 mg/L		0.0010	102	90	110			
					Run: SUB-C99823				04/18/08 10:39
Sample ID: R08040178-001A Selenium-IV	Sample Matrix Spike 0.047 mg/L		0.0010	92	85	115			
					Run: SUB-C99823				04/18/08 10:44
Sample ID: R08040178-001A Selenium-IV	Sample Matrix Spike Duplicate 0.049 mg/L		0.0010	97	85	115	5.3	10	
					Run: SUB-C99823				04/18/08 10:46
Sample ID: R08040178-001H Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	90	85	115			
					Run: SUB-C99823				04/18/08 11:01
Sample ID: R08040178-001H Selenium-IV	Sample Matrix Spike Duplicate 0.046 mg/L		0.0010	89	85	115	0.4	10	
					Run: SUB-C99823				04/18/08 11:03
Method: A3500-Cr B							Batch: 080415-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND mg/L		0.005						
					Run: SPEC1_080415A				04/15/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.20 mg/L		0.0050	99	80	120			
					Run: SPEC1_080415A				04/15/08 00:00
Sample ID: R08040178-001EMS Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.0050	99	80	120			
					Run: SPEC1_080415A				04/15/08 00:00
Sample ID: R08040178-002EMS Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.0050	95	80	120			
					Run: SPEC1_080415A				04/15/08 00:00
Sample ID: R08040178-003EMS Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.0050	95	80	120			
					Run: SPEC1_080415A				04/15/08 00:00
Sample ID: R08040178-004EMS Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.0050	99	80	120			
					Run: SPEC1_080415A				04/15/08 00:00
Method: A4500-H B							Batch: 080421_1_PH-W		
Sample ID: LCS_pH-1_080421 pH	Laboratory Control Sample 6.92 s.u.		0.010	101	98.55	101.45			
					Run: PH_COND2-R_080421B				04/21/08 16:27
Sample ID: R08040178-001CDUP pH	Sample Duplicate 8.11 s.u.		0.010				0.1	1.25	
					Run: PH_COND2-R_080421B				04/21/08 16:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-17_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_080417A 04/17/08 10:21
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			Run: TECHAA2-R_080417A 04/17/08 10:22
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			Run: TECHAA2-R_080417A 04/17/08 10:23
Sample ID: R08040160-001AMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.35	mg/L	0.10	105	80	120			Run: TECHAA2-R_080417A 04/17/08 13:55
Sample ID: R08040178-003FMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.21	mg/L	0.10	86	80	120			Run: TECHAA2-R_080417A 04/17/08 14:38
Sample ID: R08040178-003FMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.21	mg/L	0.10	86	80	120	0.0	10	Run: TECHAA2-R_080417A 04/17/08 14:39
Method: A9222 D							Batch: 080415-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank								
Bacteria, Fecal Coliform	ND	CFU/100ml	1						Run: MEMFILT_080415A 04/15/08 11:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_18330			
Sample ID: MB-18330	Method Blank			Run: SUB-C100319			04/28/08 23:14			
Aluminum	0.002	mg/L	0.0007							
Barium	ND	mg/L	0.004							
Boron	ND	mg/L	0.006							
Iron	ND	mg/L	0.005							
Calcium	ND	mg/L	0.1							
Magnesium	ND	mg/L	0.1							
Potassium	0.2	mg/L	0.08							
Silica	ND	mg/L	0.04							
Sodium	ND	mg/L	0.1							
Sample ID: LCS-18330	Laboratory Control Sample			Run: SUB-C100319			04/28/08 23:17			
Aluminum	0.481	mg/L	0.10	96	85	115				
Barium	0.474	mg/L	0.10	95	85	115				
Boron	0.488	mg/L	0.10	98	85	115				
Iron	0.491	mg/L	0.030	98	85	115				
Calcium	53.1	mg/L	1.0	106	85	115				
Magnesium	53.5	mg/L	1.0	107	85	115				
Potassium	47.9	mg/L	1.0	95	85	115				
Silica	0.512	mg/L	0.10	102	85	115				
Sodium	52.2	mg/L	1.0	104	85	115				
Sample ID: R08040178-004B	Sample Matrix Spike			Run: SUB-C100319			04/29/08 00:22			
Aluminum	1.09	mg/L	0.10	117	70	130				
Barium	0.464	mg/L	0.10	87	70	130				
Boron	0.726	mg/L	0.10	94	70	130				
Iron	0.980	mg/L	0.030	92	70	130				
Calcium	431	mg/L	1.0		70	130			A	
Magnesium	176	mg/L	1.0	96	70	130				
Potassium	60.8	mg/L	1.0	96	70	130				
Silica	5.91	mg/L	0.10		70	130			A	
Sodium	718	mg/L	1.0		70	130			A	
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate			Run: SUB-C100319			04/29/08 00:25			
Aluminum	1.07	mg/L	0.10	114	70	130	1.1	20		
Barium	0.481	mg/L	0.10	90	70	130	3.5	20		
Boron	0.729	mg/L	0.10	94	70	130	0.4	20		
Iron	0.981	mg/L	0.030	93	70	130	0.2	20		
Calcium	436	mg/L	1.0		70	130	1.1	20	A	
Magnesium	178	mg/L	1.0	101	70	130	1.2	20		
Potassium	61.4	mg/L	1.0	97	70	130	1.0	20		
Silica	5.78	mg/L	0.10		70	130	2.3	20	A	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18330
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate					Run: SUB-C100319			04/29/08 00:25
Sodium	723	mg/L	1.0		70	130	0.6	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R100675			
Sample ID: MB-080505A	Method Blank		Run: SUB-C100675				05/05/08 10:34			
Silica	ND	mg/L	0.06							
Aluminum	ND	mg/L	0.008							
Boron	ND	mg/L	0.004							
Calcium	ND	mg/L	0.04							
Chromium	0.003	mg/L	0.003							
Copper	ND	mg/L	0.005							
Iron	0.006	mg/L	0.002							
Magnesium	ND	mg/L	0.04							
Manganese	ND	mg/L	0.0004							
Molybdenum	ND	mg/L	0.01							
Potassium	ND	mg/L	0.08							
Sodium	ND	mg/L	0.06							
Vanadium	ND	mg/L	0.006							
Zinc	ND	mg/L	0.004							
Sample ID: LFB-080505A	Laboratory Fortified Blank		Run: SUB-C100675				05/05/08 10:37			
Silica	0.97	mg/L	0.10	97	85	125				
Aluminum	0.96	mg/L	0.10	96	85	125				
Boron	0.99	mg/L	0.10	99	85	125				
Calcium	55	mg/L	0.50	110	85	125				
Chromium	0.99	mg/L	0.050	99	85	125				
Copper	0.94	mg/L	0.010	94	85	125				
Iron	0.97	mg/L	0.030	97	85	125				
Magnesium	53	mg/L	0.50	107	85	125				
Manganese	0.95	mg/L	0.010	95	85	125				
Molybdenum	1.0	mg/L	0.10	100	85	125				
Potassium	50	mg/L	0.50	100	85	125				
Sodium	51	mg/L	0.50	102	85	125				
Vanadium	1.0	mg/L	0.10	103	85	125				
Zinc	1.0	mg/L	0.010	102	85	125				
Sample ID: C08040699-001KMS2	Sample Matrix Spike		Run: SUB-C100675				05/05/08 11:04			
Aluminum	4.44	mg/L	0.10	87	70	130				
Boron	4.80	mg/L	0.10	91	70	130				
Chromium	4.65	mg/L	0.050	91	70	130				
Copper	4.28	mg/L	0.028	84	70	130				
Iron	4.65	mg/L	0.030	90	70	130				
Manganese	4.70	mg/L	0.010	88	70	130				
Molybdenum	4.79	mg/L	0.10	94	70	130				
Vanadium	4.85	mg/L	0.10	95	70	130				
Zinc	4.90	mg/L	0.021	94	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100675		
Sample ID: C08040699-001KMS2	Sample Matrix Spike			Run: SUB-C100675			05/05/08 11:04		
Calcium	622	mg/L	1.0	91	70	130			
Magnesium	387	mg/L	1.0	91	70	130			
Potassium	251	mg/L	1.0	94	70	130			
Silica	20.5	mg/L	0.29	74	70	130			
Sodium	364	mg/L	1.0	91	70	130			
Sample ID: C08040699-001KMSD2	Sample Matrix Spike Duplicate			Run: SUB-C100675			05/05/08 11:17		
Aluminum	4.85	mg/L	0.10	95	70	130	8.8	20	
Boron	5.27	mg/L	0.10	100	70	130	9.2	20	
Chromium	5.04	mg/L	0.050	99	70	130	8.1	20	
Copper	4.64	mg/L	0.028	91	70	130	8.0	20	
Iron	5.01	mg/L	0.030	97	70	130	7.5	20	
Manganese	5.07	mg/L	0.010	96	70	130	7.6	20	
Molybdenum	5.07	mg/L	0.10	100	70	130	5.8	20	
Vanadium	5.26	mg/L	0.10	103	70	130	8.3	20	
Zinc	5.24	mg/L	0.021	101	70	130	6.6	20	
Calcium	670	mg/L	1.0	110	70	130	7.5	20	
Magnesium	420	mg/L	1.0	104	70	130	8.2	20	
Potassium	268	mg/L	1.0	101	70	130	6.7	20	
Silica	22.2	mg/L	0.29	107	70	130	8.1	20	
Sodium	390	mg/L	1.0	102	70	130	6.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100765		
Sample ID: MB-080506A	Method Blank			Run: SUB-C100765			05/06/08 14:47		
Barium	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080506A	Laboratory Fortified Blank			Run: SUB-C100765			05/06/08 14:51		
Barium	1.0	mg/L	0.10	102	85	125			
Calcium	55	mg/L	0.50	111	85	125			
Magnesium	55	mg/L	0.50	110	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08040779-001CMS2	Sample Matrix Spike			Run: SUB-C100765			05/06/08 17:20		
Barium	1.13	mg/L	0.10	105	70	130			
Nickel	1.07	mg/L	0.050	105	70	130			
Zinc	1.12	mg/L	0.010	108	70	130			
Calcium	172	mg/L	1.0	96	70	130			
Magnesium	99.5	mg/L	1.0	108	70	130			
Potassium	49.7	mg/L	1.0	93	70	130			
Sample ID: C08040779-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C100765			05/06/08 17:24		
Barium	1.12	mg/L	0.10	104	70	130	1.0	20	
Nickel	1.07	mg/L	0.050	105	70	130	0.2	20	
Zinc	1.11	mg/L	0.010	107	70	130	0.8	20	
Calcium	175	mg/L	1.0	101	70	130	1.4	20	
Magnesium	99.5	mg/L	1.0	108	70	130	0.0	20	
Potassium	50.3	mg/L	1.0	94	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18330		
Sample ID: MB-18330	Method Blank		Run: SUB-C100187			04/25/08 21:35			
Arsenic	0.0006	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	0.0006	mg/L	5E-05						
Copper	0.0008	mg/L	0.0002						
Lead	2E-05	mg/L							
Manganese	0.0004	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	4E-05						
Thorium 232	0.0002	mg/L	7E-05						
Uranium	0.0006	mg/L	3E-05						
Vanadium	0.0001	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS-18330	Laboratory Control Sample		Run: SUB-C100187			04/25/08 21:42			
Arsenic	0.564	mg/L	0.0010	113	85	115			
Cadmium	0.559	mg/L	0.010	112	85	115			
Chromium	0.566	mg/L	0.050	113	85	115			
Copper	0.550	mg/L	0.010	110	85	115			
Lead	0.569	mg/L	0.050	114	85	115			
Manganese	0.551	mg/L	0.010	110	85	115			
Molybdenum	0.579	mg/L	0.10	116	85	115			
Nickel	0.556	mg/L	0.050	111	85	115			
Silver	0.177	mg/L	0.010	89	85	115			
Thorium 232	0.569	mg/L	0.0010	114	85	115			
Uranium	0.567	mg/L	0.00032	113	85	115			
Vanadium	0.567	mg/L	0.10	113	85	115			
Zinc	0.566	mg/L	0.010	113	85	115			
Sample ID: R08040178-004B	Sample Matrix Spike		Run: SUB-C100187			04/26/08 01:32			
Arsenic	0.533	mg/L	0.0010	106	70	130			
Cadmium	0.497	mg/L	0.010	99	70	130			
Chromium	0.539	mg/L	0.050	107	70	130			
Copper	0.493	mg/L	0.010	98	70	130			
Lead	0.508	mg/L	0.050	102	70	130			
Manganese	1.54	mg/L	0.010	111	70	130			
Molybdenum	0.556	mg/L	0.10	109	70	130			
Nickel	0.506	mg/L	0.050	100	70	130			
Silver	0.206	mg/L	0.010	103	70	130			
Thorium 232	0.526	mg/L	0.0010	105	70	130			
Uranium	0.538	mg/L	0.00032	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18330		
Sample ID: R08040178-004B	Sample Matrix Spike			Run: SUB-C100187			04/26/08 01:32		
Vanadium	0.547	mg/L	0.10	109	70	130			
Zinc	0.503	mg/L	0.010	99	70	130			
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate			Run: SUB-C100187			04/26/08 01:39		
Arsenic	0.531	mg/L	0.0010	106	70	130	0.5	20	
Cadmium	0.489	mg/L	0.010	98	70	130	1.6	20	
Chromium	0.536	mg/L	0.050	107	70	130	0.6	20	
Copper	0.501	mg/L	0.010	100	70	130	1.5	20	
Lead	0.520	mg/L	0.050	104	70	130	2.3	20	
Manganese	1.53	mg/L	0.010	108	70	130	1.0	20	
Molybdenum	0.549	mg/L	0.10	108	70	130	1.4	20	
Nickel	0.515	mg/L	0.050	101	70	130	1.6	20	
Silver	0.206	mg/L	0.010	103	70	130	0.3	20	
Thorium 232	0.540	mg/L	0.0010	108	70	130	2.6	20	
Uranium	0.542	mg/L	0.00032	106	70	130	0.7	20	
Vanadium	0.538	mg/L	0.10	107	70	130	1.7	20	
Zinc	0.505	mg/L	0.010	99	70	130	0.4	20	
Method: E200.8							Batch: C_18345		
Sample ID: MB-18345	Method Blank			Run: SUB-C100506			05/01/08 20:05		
Thorium 232	0.0002	mg/L							
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-18345	Laboratory Control Sample			Run: SUB-C100506			05/01/08 20:12		
Uranium	0.0548	mg/L	0.00030	104	80	120			
Sample ID: R08040220-002K	Post Digestion Spike			Run: SUB-C100506			05/01/08 20:58		
Thorium 232	0.0242	mg/L	0.0010	97	70	130			
Uranium	0.0255	mg/L	0.00030	98	70	130			
Sample ID: R08040220-002K	Post Digestion Spike Duplicate			Run: SUB-C100506			05/01/08 21:25		
Thorium 232	0.0246	mg/L	0.0010	98	70	130	1.6	20	
Uranium	0.0257	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: LRB	Method Blank			Run: SUB-C100732			05/06/08 11:52		
Arsenic	ND	mg/L	6E-05						
Barium	4E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	0.0001	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	5E-05	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C100732			05/06/08 11:59		
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0534	mg/L	0.0010	107	85	115			
Cadmium	0.0525	mg/L	0.0010	105	85	115			
Copper	0.0528	mg/L	0.0010	106	85	115			
Lead	0.0535	mg/L	0.0010	107	85	115			
Mercury	0.00525	mg/L	0.0010	103	85	115			
Nickel	0.0530	mg/L	0.0010	106	85	115			
Silver	0.0211	mg/L	0.0010	105	85	115			
Thorium 232	0.0525	mg/L	0.0010	105	85	115			
Uranium	0.0522	mg/L	0.00030	104	85	115			
Sample ID: C08040928-001CMS4	Post Digestion Spike			Run: SUB-C100732			05/06/08 15:02		
Arsenic	0.0516	mg/L	0.0010	101	70	130			
Barium	0.0775	mg/L	0.10	104	70	130			
Cadmium	0.0491	mg/L	0.010	98	70	130			
Copper	0.0482	mg/L	0.010	96	70	130			
Lead	0.0526	mg/L	0.050	105	70	130			
Mercury	0.00527	mg/L	0.0010	105	70	130			
Nickel	0.0472	mg/L	0.050	94	70	130			
Silver	0.0129	mg/L	0.010	65	70	130			S
Thorium 232	0.0542	mg/L	0.0010	108	70	130			
Uranium	0.0605	mg/L	0.00030	108	70	130			
Sample ID: C08040928-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C100732			05/06/08 15:08		
Arsenic	0.0534	mg/L	0.0010	104	70	130	3.4	20	
Barium	0.0780	mg/L	0.10	105	70	130	0.0	20	
Cadmium	0.0506	mg/L	0.010	101	70	130	2.9	20	
Copper	0.0488	mg/L	0.010	98	70	130	1.3	20	
Lead	0.0526	mg/L	0.050	105	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: C08040928-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C100732			05/06/08 15:08		
Mercury	0.00528	mg/L	0.0010	106	70	130	0.1	20	
Nickel	0.0490	mg/L	0.050	98	70	130	0.0	20	
Silver	0.0134	mg/L	0.010	67	70	130	3.4	20	S
Thorium 232	0.0545	mg/L	0.0010	109	70	130	0.5	20	
Uranium	0.0606	mg/L	0.00030	109	70	130	0.3	20	
Sample ID: R08040287-001C	Post Digestion Spike			Run: SUB-C100732			05/07/08 01:51		
Arsenic	0.0520	mg/L	0.0010	102	70	130			
Barium	0.0607	mg/L	0.10	98	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0506	mg/L	0.050	101	70	130			
Mercury	0.00502	mg/L	0.0010	100	70	130			
Nickel	0.0511	mg/L	0.050	101	70	130			
Silver	0.0144	mg/L	0.010	72	70	130			
Thorium 232	0.0518	mg/L	0.0010	103	70	130			
Uranium	0.0547	mg/L	0.00030	104	70	130			
Sample ID: R08040287-001C	Post Digestion Spike Duplicate			Run: SUB-C100732			05/07/08 01:58		
Arsenic	0.0518	mg/L	0.0010	101	70	130	0.5	20	
Barium	0.0621	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0495	mg/L	0.010	99	70	130	0.2	20	
Copper	0.0505	mg/L	0.010	100	70	130	0.1	20	
Lead	0.0513	mg/L	0.050	103	70	130	1.4	20	
Mercury	0.00510	mg/L	0.0010	102	70	130	1.6	20	
Nickel	0.0506	mg/L	0.050	100	70	130	1.1	20	
Silver	0.0151	mg/L	0.010	76	70	130	5.0	20	
Thorium 232	0.0527	mg/L	0.0010	105	70	130	1.8	20	
Uranium	0.0557	mg/L	0.00030	106	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_32094
Sample ID: MB-32094	Method Blank								Run: SUB-C100150 04/24/08 15:24
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32094	Laboratory Fortified Blank								Run: SUB-C100150 04/24/08 16:13
Mercury	0.0017	mg/L	0.0010	85	85	115			
Sample ID: B08041628-001GMS	Sample Matrix Spike								Run: SUB-C100150 04/24/08 16:23
Mercury	0.0024	mg/L	0.0010	119	70	130			
Sample ID: B08041628-001GMSD	Sample Matrix Spike Duplicate								Run: SUB-C100150 04/24/08 16:25
Mercury	0.0023	mg/L	0.0010	113	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34283		
Sample ID: LFB0804163409-3	Laboratory Fortified Blank			Run: DIONEX_080416A			04/16/08 17:55		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: LFB0804163409-4	Laboratory Fortified Blank			Run: DIONEX_080416A			04/16/08 18:10		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.05	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08040178-001CMS	Sample Matrix Spike			Run: DIONEX_080416A			04/16/08 18:57		
Chloride	986	mg/L	5.4	83	80	120			
Fluoride	100	mg/L	0.56	96	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Sulfate	2210	mg/L	3.4	89	80	120			
Sample ID: R08040178-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080416A			04/16/08 19:12		
Chloride	993	mg/L	5.4	85	80	120	0.6	10	
Fluoride	99.3	mg/L	0.56	95	80	120	0.8	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	3.9	10	
Sulfate	2160	mg/L	3.4	83	80	120	2.1	10	
Sample ID: R08040165-001BMS	Sample Matrix Spike			Run: DIONEX_080416A			04/16/08 22:02		
Chloride	125	mg/L	2.2	85	80	120			
Fluoride	38.3	mg/L	0.22	92	80	120			
Nitrogen, Nitrate as N	47.5	mg/L	0.50	86	80	120			
Sulfate	479	mg/L	1.3	82	80	120			
Sample ID: R08040165-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080416A			04/16/08 22:17		
Chloride	127	mg/L	2.2	87	80	120	1.3	10	
Fluoride	38.9	mg/L	0.22	93	80	120	1.5	10	
Nitrogen, Nitrate as N	48.0	mg/L	0.50	87	80	120	1.1	10	
Sulfate	480	mg/L	1.3	82	80	120	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34324		
Sample ID: LFB0804184226-3	Laboratory Fortified Blank					Run: DIONEX_080418A			04/18/08 16:29
Chloride	5.04	mg/L	0.50	101	90	110			
Sample ID: LFB0804184226-4	Laboratory Fortified Blank					Run: DIONEX_080418A			04/18/08 16:44
Chloride	5.11	mg/L	0.50	102	90	110			
Sample ID: R08040220-002CMS	Sample Matrix Spike					Run: DIONEX_080418A			04/18/08 17:46
Chloride	5.21	mg/L	0.50	104	80	120			
Sample ID: R08040220-002CMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080418A			04/18/08 18:01
Chloride	4.94	mg/L	0.50	99	80	120	5.3	10	
Method: E900.0							Batch: C_GrAB-0439		
Sample ID: MB-GrAB-0439	Method Blank					Run: SUB-C100919			05/09/08 01:51
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0439	Laboratory Control Sample					Run: SUB-C100919			05/09/08 01:51
Gross Alpha	250	pCi/L		100	70	130			
Sample ID: Cs137-GrAB-0439	Laboratory Control Sample					Run: SUB-C100919			05/09/08 01:51
Gross Beta	93	pCi/L		100	70	130			
Sample ID: C08041163-001BMS	Sample Matrix Spike					Run: SUB-C100919			05/09/08 01:51
Gross Alpha	260	pCi/L		102	70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-C100919			05/09/08 01:51
Gross Alpha	240	pCi/L		96	70	130	6.6	15.8	
Sample ID: C08041163-001BMS	Sample Matrix Spike					Run: SUB-C100919			05/09/08 01:51
Gross Beta	94	pCi/L		101	70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-C100919			05/09/08 01:51
Gross Beta	93	pCi/L		100	70	130	1.1	16.1	
Sample ID: C08040780-005BDUP	Sample Duplicate					Run: SUB-C100919			05/09/08 14:29
Gross Alpha	24	pCi/L					2.5	58	
Gross Beta	9.0	pCi/L					18	142.4	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99993		
Sample ID: LCS-R99993	Laboratory Control Sample				Run: SUB-C99993			04/21/08 16:56	
Americium 241	716	pCi/Filter	20	88	70	130			
Cesium 137	1200	pCi/Filter	20	86	70	130			
Sample ID: MB-R99993	Method Blank				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma		pCi/Filter							U
Sample ID: R08040178-001I	Sample Duplicate				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma	ND	pCi/L	20				0.0	30	U
Method: E903.0							Batch: C_R100731		
Sample ID: C08040702-004KMS	Sample Matrix Spike				Run: SUB-C100731			05/05/08 12:47	
Radium 226	55	pCi/L		87	70	130			
Sample ID: C08040702-004KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100731			05/05/08 14:17	
Radium 226	51	pCi/L		80	70	130	7.5	26.1	
Sample ID: MB-18345	Method Blank				Run: SUB-C100731			05/06/08 05:22	
Radium 226	1	pCi/L							U
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100731			05/06/08 06:52	
Radium 226	9.7	pCi/L		67	70	130			S
- LCS is low. Since all other QA is acceptable this batch is approved.									
Method: E903.0							Batch: C_RA226-2757		
Sample ID: C08040703-004BMS	Sample Matrix Spike				Run: SUB-C100744			05/06/08 11:39	
Radium 226	11	pCi/L		87	70	130			
Sample ID: C08040703-004BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100744			05/06/08 11:39	
Radium 226	12	pCi/L		98	70	130	11	26.2	
Sample ID: MB-RA226-2757	Method Blank				Run: SUB-C100744			05/06/08 13:36	
Radium 226	-0.01	pCi/L							U
Sample ID: LCS-RA226-2757	Laboratory Control Sample				Run: SUB-C100744			05/06/08 13:36	
Radium 226	6.0	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18345		
Sample ID: C08040702-001KMS Thorium 230	Sample Matrix Spike 23.8	pCi/L		102	70	130			04/21/08 15:00
Sample ID: C08040702-001KMSD Thorium 230	Sample Matrix Spike Duplicate 20.7	pCi/L		88	70	130	14	30	04/21/08 15:00
Sample ID: LCS-18345 Thorium 230	Laboratory Control Sample 54.4	pCi/L	0.20	111	70	130			04/21/08 15:00
Sample ID: MB-18345 Thorium 230	Method Blank 0.6	pCi/L							04/21/08 15:00
Method: E907.0							Batch: C_R100560		
Sample ID: LCS-R100560 Thorium 230	Laboratory Control Sample 7.40	pCi/L	0.20	106	70	130			04/22/08 15:00
Sample ID: C08030343-008CMS Thorium 230	Sample Matrix Spike 16.1	pCi/L	0.20	98	70	130			04/22/08 15:00
Sample ID: C08030343-008CMSD Thorium 230	Sample Matrix Spike Duplicate 16.5	pCi/L	0.20	101	70	130	2.5	30	04/22/08 15:00
Sample ID: MB-R100560 Thorium 230	Method Blank ND	pCi/L							04/22/08 15:00 U
Method: E907.0							Batch: C_R100603		
Sample ID: LCS-R100603 Thorium 230	Laboratory Control Sample 6.60	pCi/L	0.20	94	70	130			04/25/08 11:00
Sample ID: C08040863-001EMS Thorium 230	Sample Matrix Spike 13.7	pCi/L	0.20	85	70	130			04/25/08 11:00
Sample ID: C08040863-001EMSD Thorium 230	Sample Matrix Spike Duplicate 16.2	pCi/L	0.20	99	70	130	17	30	04/25/08 11:00
Sample ID: MB-R100603 Thorium 230	Method Blank 1E-05	pCi/L							04/25/08 11:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

Company Name: PowerTech (RESPEC)		Project Name, PWS #, Permit #, Etc.: PowerTech Dewey Burdock	
Report Mail Address: RESPEC		Contact Name, Phone, Fax, E-mail: Cory Ferrier	
Invoice Address: RESPEC		Invoice Contact & Phone #:	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		Purchase Order #:	
Special Report Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD/EDT <input type="checkbox"/> Format _____		ELI Quote #:	
Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	
ANALYSIS REQUESTED As Pri. Quote No Pb210 No Po210		Comments:	
SEE ATTACHED		Normal Turnaround (TAT)	
RUSH Turnaround (TAT)		Custody Seal Y N Intact Y N Signature Y N Match	
LABORATORY USE ONLY		Receipt Temp 2.9 °C Cooler ID(s) ice	
LABORATORY USE ONLY		Lab ID	

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Receipt Temp Cooler ID(s)	Custody Seal Y N Intact Y N Signature Y N Match	Lab ID
1 Dr. CH ROS	4/14/03	11:00		X						02040178-001
2 Dr. David CHRAS	4/14/03	11:05		X						002
3 Dr. David BUC O4	4/14/03	14:55		X						003
4 Dew Burd RUC O1	4/14/03	15:43		X						004
5										
6										
7										
8										
9										
10										

Relinquished by: **Cory Ferrier** Date/Time: **4/15/03** Shipped by: _____
 Relinquished by: _____ Date/Time: _____ Shipped by: _____
 Sample Disposal: _____ Return to client: _____ Lab Disposal: _____
 In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
 Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040220 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 4/17/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040220-001	DewBurd CHR01	04/16/08 15:30	04/17/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended



R08040220-002 DewBurd BLK01

04/16/08 15:45 04/17/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Bacteria, Fecal Coliform
Conductivity
Chromium, Hexavalent
Chromium, Trivalent
Mercury, Total
Selenium, Dissolved
Selenium, Total
Selenium, Dissolved
Selenium, Total
Selenium, Dissolved
Selenium-VI, Total
Anions by Ion Chromatography
Nitrogen, Ammonia
pH
Metals Digestion by EPA 200.2
Digestion, Total Metals
Digestion, Total Metals
Digestion, As/Se by Hydride
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma
Radium 226, Dissolved
Radium 226, Suspended
Radium 226, Total
Thorium, Isotopic
Thorium, Suspended Isotopic
Thorium, Isotopic
Sodium Adsorption Ratio
Suspended Sediment Concentration
Solids, Total Dissolved
Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-001
 Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:30
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2			A9222 D	04/17/08 15:30/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5			A2320 B	04/18/08 11:54/mb
Carbonate as CO3	ND	mg/L		5			A2320 B	04/18/08 11:54/mb
Bicarbonate as HCO3	302	mg/L		5			A2320 B	04/18/08 11:54/mb
Calcium	370	mg/L		0.5			E200.7	04/30/08 17:35/eli-c
Chloride	156	mg/L	D	5		50	E300.0	04/18/08 16:59/jmh
Fluoride	ND	mg/L		0.1			E300.0	04/18/08 17:15/jmh
Magnesium	175	mg/L		0.5			E200.7	04/30/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			A4500-NH3 G	04/17/08 15:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			E300.0	04/18/08 17:15/jmh
Potassium	26	mg/L		1			E200.7	04/30/08 17:35/eli-c
Silica	6.4	mg/L		0.5			E200.7	04/30/08 17:35/eli-c
Sodium	1140	mg/L	D	0.6		10	E200.7	05/01/08 15:41/eli-c
Sulfate	3690	mg/L	D	3		50	E300.0	04/18/08 16:59/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6600	umhos/cm		5.0			A2510 B	04/21/08 16:58/jmh
pH	8.03	s.u.		0.01			A4500-H B	04/21/08 16:40/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10			Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	5	mg/L		5			D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	5700	mg/L		5			A2540 C	04/22/08 13:55/mb
Solids, Total Suspended TSS @ 105 C	8	mg/L		5			A2540 D	04/21/08 08:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1			E200.7	04/30/08 17:35/eli-c
Arsenic	0.001	mg/L		0.001			E200.8	05/05/08 19:34/eli-c
Barium	ND	mg/L		0.1			E200.8	05/02/08 02:16/eli-c
Boron	0.3	mg/L		0.1			E200.7	04/30/08 17:35/eli-c
Cadmium	ND	mg/L		0.005			E200.8	05/02/08 02:16/eli-c
Chromium	ND	mg/L		0.01			E200.7	04/30/08 17:35/eli-c
Copper	ND	mg/L		0.01			E200.8	05/05/08 19:34/eli-c
Iron	ND	mg/L		0.03			E200.7	04/30/08 17:35/eli-c
Lead	ND	mg/L		0.001			E200.8	05/02/08 02:16/eli-c
Manganese	0.68	mg/L		0.01			E200.7	04/30/08 17:35/eli-c
Mercury	ND	mg/L		0.001			E200.8	05/02/08 02:16/eli-c
Molybdenum	ND	mg/L		0.1			E200.7	04/30/08 17:35/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-001
 Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:30
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/05/08 19:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 19:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/02/08 02:16/eli-c
Uranium	0.0324	mg/L		0.0003		1	E200.8	05/02/08 02:16/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 17:35/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/30/08 17:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:45/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	05/01/08 20:45/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/05/08 15:10/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 22:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/30/08 21:27/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/17/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 15:10/eli-c
Iron	0.49	mg/L		0.03		2	E200.7	04/30/08 21:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 22:46/eli-c
Manganese	0.68	mg/L		0.01		2	E200.7	04/30/08 21:27/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	05/01/08 22:46/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 15:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 15:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 22:46/eli-c
Uranium	0.0365	mg/L		0.0003		1	E200.8	05/01/08 22:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/05/08 15:10/eli-c
Calcium	366	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Magnesium	171	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Potassium	22.1	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Silica	6.3	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Sodium	1140	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-001
 Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:30
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/23/08 16:54/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/23/08 15:32/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/24/08 09:22/eli-ca
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/23/08 17:03/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/23/08 15:41/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/24/08 09:22/eli-ca
RADIONUCLIDES - DISSOLVED									
Radium 226	0.3	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.1	pCi/L	U				1	E903.0	05/05/08 20:19/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	05/05/08 20:19/eli-c
Radium 226 MDC	0.9	pCi/L					1	E903.0	05/05/08 20:19/eli-c
Thorium 230	0.2	pCi/L	U				1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	5.7	pCi/L	U				1	E900.0	05/01/08 12:00/eli-c
Gross Alpha precision (±)	14.8	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Alpha MDC	24.4	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Beta	-9.2	pCi/L	U				1	E900.0	05/01/08 12:00/eli-c
Gross Beta precision (±)	10.9	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Beta MDC	18.5	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	0.1	pCi/L	U				1	E903.0	05/29/08 17:44/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	05/29/08 17:44/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	05/29/08 17:44/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	05/29/08 17:44/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-001
 Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:30
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:26/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.81					1	A1030 E	06/17/08 00:00/ADM
Anions	86.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	83.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	5720	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-002
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:45
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2			2	A9222 D 04/17/08 15:30/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5			1	A2320 B 04/18/08 11:57/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B 04/18/08 11:57/mb
Bicarbonate as HCO3	ND	mg/L		5			1	A2320 B 04/18/08 11:57/mb
Calcium	ND	mg/L		0.5			2	E200.7 04/30/08 17:42/eli-c
Chloride	ND	mg/L		1			1	E300.0 04/18/08 17:30/jmh
Fluoride	ND	mg/L		0.1			1	E300.0 04/18/08 17:30/jmh
Magnesium	ND	mg/L		0.5			2	E200.7 04/30/08 17:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G 04/17/08 16:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0 04/18/08 17:30/jmh
Potassium	1	mg/L		1			2	E200.7 04/30/08 17:42/eli-c
Silica	ND	mg/L		0.5			2	E200.7 04/30/08 17:42/eli-c
Sodium	3.7	mg/L		0.5			2	E200.7 04/30/08 17:42/eli-c
Sulfate	ND	mg/L		1			1	E300.0 04/18/08 17:30/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	8.4	umhos/cm		5.0			1	A2510 B 04/21/08 17:00/jmh
pH	5.78	s.u.		0.01			1	A4500-H B 04/21/08 16:43/jmh
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10			1	Calculation 06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5			1	D3977 04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5			1	A2540 C 04/23/08 18:33/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5			1	A2540 D 04/21/08 08:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1			1	E200.8 05/01/08 07:02/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8 05/01/08 07:02/eli-c
Barium	ND	mg/L		0.1			1	E200.8 05/01/08 07:02/eli-c
Boron	ND	mg/L		0.1			2	E200.7 04/30/08 17:42/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8 05/01/08 07:02/eli-c
Chromium	ND	mg/L		0.01			1	E200.8 05/01/08 07:02/eli-c
Copper	ND	mg/L		0.01			1	E200.8 05/01/08 07:02/eli-c
Iron	ND	mg/L		0.03			2	E200.7 04/30/08 17:42/eli-c
Lead	ND	mg/L		0.001			1	E200.8 05/01/08 07:02/eli-c
Manganese	ND	mg/L		0.01			1	E200.8 05/01/08 07:02/eli-c
Mercury	ND	mg/L		0.001			1	E200.8 05/01/08 07:02/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8 05/01/08 07:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-002
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:45
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/01/08 07:02/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 07:02/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 07:02/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	05/01/08 07:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:52/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8	05/01/08 20:52/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/01/08 22:53/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 22:53/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/30/08 21:41/eli-c
Chromium, Hexavalent	0.02	mg/L	*	0.005		1	A3500-Cr B	04/17/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	05/01/08 22:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/30/08 21:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 22:53/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	04/30/08 21:41/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	05/01/08 22:53/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	04/30/08 21:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 15:16/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 22:53/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 22:53/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/05/08 15:16/eli-c
Calcium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Magnesium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Potassium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Silica	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Sodium	1.5	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c

*Lab contamination

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 * - The result exceeds the MCL.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-002
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:45
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/23/08 17:01/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/23/08 15:39/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/24/08 09:22/eli-ca
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	04/23/08 17:14/eli-ca
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/23/08 15:49/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/24/08 09:22/eli-ca
RADIONUCLIDES - DISSOLVED									
Radium 226	0.2	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/05/08 15:41/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	1.2	pCi/L					1	E903.0	05/05/08 21:50/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	05/05/08 21:50/eli-c
Radium 226 MDC	0.9	pCi/L					1	E903.0	05/05/08 21:50/eli-c
Thorium 230	0.1	pCi/L	U				1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	-1.0	pCi/L	U				1	E900.0	05/01/08 12:00/eli-c
Gross Alpha precision (±)	0.6	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Alpha MDC	1.1	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Beta	-1.4	pCi/L	U				1	E900.0	05/01/08 12:00/eli-c
Gross Beta precision (±)	1.5	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Beta MDC	2.5	pCi/L					1	E900.0	05/01/08 12:00/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	1.4	pCi/L					1	E903.0	05/29/08 17:44/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	05/29/08 17:44/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	05/29/08 17:44/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/29/08 17:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040220-002
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/16/08 15:45
 Date Received: 04/17/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:29/eli-b
*Lab contamination								

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080418A-ALK-SEL-W		
Sample ID: LCS1_080418A Alkalinity, Total as CaCO3	Laboratory Control Sample 960 mg/L		5.0	96	90	110			Run: PH_COND1-R_080418D 04/18/08 11:20
Method: A2510 B							Batch: 080421_1_COND-PROBE-W		
Sample ID: LCS1-1_080421 Conductivity @ 25 C	Laboratory Control Sample 147 umhos/cm		5.0	98	90	110			Run: PH_COND2-R_080421B 04/21/08 16:49
Sample ID: LCS2-1_080421 Conductivity @ 25 C	Laboratory Control Sample 5100 umhos/cm		5.0	102	90	110			Run: PH_COND2-R_080421B 04/21/08 16:50
Sample ID: LCS_COND-1_080421 Conductivity @ 25 C	Laboratory Control Sample 1440 umhos/cm		5.0	102	90	110			Run: PH_COND2-R_080421B 04/21/08 16:51
Sample ID: MBLK-1_080421 Conductivity @ 25 C	Method Blank ND umhos/cm		5						Run: PH_COND2-R_080421B 04/21/08 16:52
Sample ID: R08040178-001CDUP Conductivity @ 25 C	Sample Duplicate 5220 umhos/cm		5.0				1.4	10	Run: PH_COND2-R_080421B 04/21/08 16:54
Method: A2540 C							Batch: 080422A-SLDS-TDS-W		
Sample ID: LCS1_080422A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 230 mg/L		5.0	110	90	110			Run: BAL-4-R_080422E 04/22/08 13:53
Sample ID: MBLK1_080422A Solids, Total Dissolved TDS @ 180 C	Method Blank 10 mg/L		3						Run: BAL-4-R_080422E 04/22/08 14:05
Sample ID: R08040250-007AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2500 mg/L		5.0	119	80	120			Run: BAL-4-R_080422E 04/22/08 14:03
Sample ID: R08040250-007AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2500 mg/L		5.0	116	80	120	0.2	10	Run: BAL-4-R_080422E 04/22/08 14:04
Method: A2540 D							Batch: 080421A-SLDS-TSS-W		
Sample ID: LCS1_080421A Solids, Total Suspended TSS @ 105 C	Laboratory Control Sample 180 mg/L		5.0	88	85	115			Run: BAL-4-R_080421B 04/21/08 08:42
Sample ID: MBLK1_080421A Solids, Total Suspended TSS @ 105 C	Method Blank 4 mg/L		2						Run: BAL-4-R_080421B 04/21/08 08:43
Sample ID: R08040227-001ADUP Solids, Total Suspended TSS @ 105 C	Sample Duplicate 20 mg/L		5.0				11	20	Run: BAL-4-R_080421B 04/21/08 08:54

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-080423B		
Sample ID: MBLK	Method Blank					Run: SUB-C100062			04/23/08 16:43
Selenium	ND	mg/L	6E-05						
Sample ID: 288-62-1	Laboratory Control Sample					Run: SUB-C100062			04/23/08 16:52
Selenium	0.051	mg/L	0.0010	102	90	110			
Sample ID: R08040220-001A	Sample Matrix Spike					Run: SUB-C100062			04/23/08 16:56
Selenium	0.049	mg/L	0.0010	98	85	115			
Sample ID: R08040220-001A	Sample Matrix Spike Duplicate					Run: SUB-C100062			04/23/08 16:58
Selenium	0.050	mg/L	0.0010	101	85	115	2.8	10	
Sample ID: R08040220-001H	Sample Matrix Spike					Run: SUB-C100062			04/23/08 17:05
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R08040220-001H	Sample Matrix Spike Duplicate					Run: SUB-C100062			04/23/08 17:11
Selenium	0.043	mg/L	0.0010	87	85	115	17	10	R
Method: A3114 B							Batch: C_SEIV-3114-080423A		
Sample ID: MBLK	Method Blank					Run: SUB-C100052			04/23/08 15:28
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-62-1	Laboratory Control Sample					Run: SUB-C100052			04/23/08 15:30
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08040220-001A	Sample Matrix Spike					Run: SUB-C100052			04/23/08 15:35
Selenium-IV	0.047	mg/L	0.0010	94	85	115			
Sample ID: R08040220-001A	Sample Matrix Spike Duplicate					Run: SUB-C100052			04/23/08 15:37
Selenium-IV	0.046	mg/L	0.0010	92	85	115	2.0	10	
Sample ID: R08040220-001H	Sample Matrix Spike					Run: SUB-C100052			04/23/08 15:43
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08040220-001H	Sample Matrix Spike Duplicate					Run: SUB-C100052			04/23/08 15:47
Selenium-IV	0.045	mg/L	0.0010	90	85	115	2.1	10	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080417-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND	mg/L	0.005						
					Run: SPEC1_080417A				04/17/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.20	mg/L	0.0050	99	80	120			04/17/08 00:00
					Run: SPEC1_080417A				04/17/08 00:00
Sample ID: R08040220-001E Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	99	80	120			04/17/08 00:00
					Run: SPEC1_080417A				04/17/08 00:00
Sample ID: R08040220-002E Chromium, Hexavalent	Sample Matrix Spike 0.18	mg/L	0.0050	80	80	120			04/17/08 00:00
					Run: SPEC1_080417A				04/17/08 00:00
Method: A4500-H B							Batch: 080421_1_PH-W		
Sample ID: LCS_pH-1_080421 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			04/21/08 16:27
					Run: PH_COND2-R_080421B				04/21/08 16:29
Sample ID: R08040178-001CDUP pH	Sample Duplicate 8.11	s.u.	0.010				0.1	1.25	04/21/08 16:29
					Run: PH_COND2-R_080421B				04/21/08 16:29
Method: A4500-NH3 G							Batch: A2008-04-17_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						04/17/08 10:21
					Run: TECHAA2-R_080417A				04/17/08 10:22
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			04/17/08 10:22
					Run: TECHAA2-R_080417A				04/17/08 10:23
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	101	90	110			04/17/08 10:23
					Run: TECHAA2-R_080417A				04/17/08 15:53
Sample ID: R08040217-005CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	88	80	120			04/17/08 15:53
					Run: TECHAA2-R_080417A				04/17/08 15:54
Sample ID: R08040217-005CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.22	mg/L	0.10	88	80	120	0.0	10	04/17/08 15:54
					Run: TECHAA2-R_080417A				04/17/08 15:54
Method: A9222 D							Batch: 080417-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml	1						04/17/08 15:30
					Run: MEMFILT_080417A				04/17/08 15:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18370		
Sample ID: MB-18370	Method Blank		Run: SUB-C100499			04/30/08 21:03			
Aluminum	0.0007	mg/L	0.0007						
Barium	0.004	mg/L	0.004						
Boron	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Chromium	0.005	mg/L	0.003						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.1						
Manganese	ND	mg/L	0.0008						
Molybdenum	ND	mg/L	0.01						
Nickel	ND	mg/L	0.02						
Potassium	0.3	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.4	mg/L	0.1						
Vanadium	ND	mg/L	0.006						
Sample ID: LCS-18370	Laboratory Control Sample		Run: SUB-C100499			04/30/08 21:07			
Aluminum	0.486	mg/L	0.10	97	85	115			
Barium	0.479	mg/L	0.10	95	85	115			
Boron	0.499	mg/L	0.10	100	85	115			
Calcium	53.2	mg/L	1.0	106	85	115			
Chromium	0.510	mg/L	0.050	101	85	115			
Iron	0.498	mg/L	0.030	100	85	115			
Magnesium	53.5	mg/L	1.0	107	85	115			
Manganese	0.482	mg/L	0.010	96	85	115			
Molybdenum	0.534	mg/L	0.10	107	85	115			
Nickel	0.425	mg/L	0.050	85	85	115			
Potassium	48.8	mg/L	1.0	97	85	115			
Silica	0.526	mg/L	0.10	105	85	115			
Sodium	53.3	mg/L	1.0	106	85	115			
Vanadium	0.523	mg/L	0.10	105	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike		Run: SUB-C100499			04/30/08 21:44			
Aluminum	0.475	mg/L	0.10	95	70	130			
Barium	0.480	mg/L	0.10	94	70	130			
Boron	0.466	mg/L	0.10	93	70	130			
Calcium	52.1	mg/L	1.0	104	70	130			
Chromium	0.488	mg/L	0.050	96	70	130			
Iron	0.473	mg/L	0.030	95	70	130			
Magnesium	53.2	mg/L	1.0	106	70	130			
Manganese	0.465	mg/L	0.010	93	70	130			
Molybdenum	0.475	mg/L	0.10	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18370		
Sample ID: R08040220-002B	Sample Matrix Spike			Run: SUB-C100499			04/30/08 21:44		
Nickel	0.390	mg/L	0.050	78	70	130			
Potassium	47.6	mg/L	1.0	94	70	130			
Silica	0.441	mg/L	0.10		0	0			
Sodium	53.2	mg/L	1.0	103	70	130			
Vanadium	0.497	mg/L	0.10	99	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate			Run: SUB-C100499			04/30/08 21:47		
Aluminum	0.483	mg/L	0.10	97	70	130	1.7	20	
Barium	0.483	mg/L	0.10	95	70	130	0.5	20	
Boron	0.473	mg/L	0.10	95	70	130	1.5	20	
Calcium	52.3	mg/L	1.0	105	70	130	0.4	20	
Chromium	0.498	mg/L	0.050	98	70	130	2.0	20	
Iron	0.482	mg/L	0.030	96	70	130	1.9	20	
Magnesium	53.3	mg/L	1.0	107	70	130	0.2	20	
Manganese	0.471	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.493	mg/L	0.10	99	70	130	3.7	20	
Nickel	0.357	mg/L	0.050	71	70	130	8.8	20	
Potassium	48.1	mg/L	1.0	95	70	130	1.2	20	
Silica	0.458	mg/L	0.10		0	0			
Sodium	53.1	mg/L	1.0	103	70	130	0.1	20	
Vanadium	0.507	mg/L	0.10	101	70	130	2.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100499		
Sample ID: MB-080430A	Method Blank		Run: SUB-C100499			04/30/08 14:33			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Boron	0.006	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	0.08	mg/L	0.08						
Sodium	0.07	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	0.006	mg/L	0.004						
Sample ID: LFB-080430A	Laboratory Fortified Blank		Run: SUB-C100499			04/30/08 14:36			
Silica	0.99	mg/L	0.10	99	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Boron	0.97	mg/L	0.10	96	85	125			
Calcium	52	mg/L	0.50	104	85	125			
Chromium	0.95	mg/L	0.050	95	85	125			
Iron	0.93	mg/L	0.030	93	85	125			
Magnesium	52	mg/L	0.50	105	85	125			
Manganese	0.92	mg/L	0.010	92	85	125			
Molybdenum	0.97	mg/L	0.10	97	85	125			
Potassium	48	mg/L	0.50	96	85	125			
Sodium	51	mg/L	0.50	102	85	125			
Vanadium	0.99	mg/L	0.10	99	85	125			
Zinc	0.96	mg/L	0.010	95	85	125			
Sample ID: C07071195-037BMS2	Sample Matrix Spike		Run: SUB-C100499			04/30/08 14:43			
Aluminum	4.45	mg/L	0.10	87	70	130			
Boron	4.99	mg/L	0.10	93	70	130			
Chromium	4.62	mg/L	0.050	91	70	130			
Iron	4.66	mg/L	0.030	91	70	130			
Manganese	4.88	mg/L	0.010	90	70	130			
Molybdenum	4.95	mg/L	0.10	95	70	130			
Vanadium	4.89	mg/L	0.10	96	70	130			
Zinc	4.87	mg/L	0.021	95	70	130			
Calcium	715	mg/L	1.0	94	70	130			
Magnesium	319	mg/L	1.0	100	70	130			
Potassium	304	mg/L	1.0	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100499		
Sample ID: C07071195-037BMS2	Sample Matrix Spike			Run: SUB-C100499			04/30/08 14:43		
Silica	35.3	mg/L	0.29		70	130			A
Sodium	579	mg/L	1.0	90	70	130			
Sample ID: C07071195-037BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C100499			04/30/08 14:46		
Aluminum	4.50	mg/L	0.10	88	70	130	1.1	20	
Boron	5.12	mg/L	0.10	95	70	130	2.4	20	
Chromium	4.66	mg/L	0.050	91	70	130	0.8	20	
Iron	4.73	mg/L	0.030	93	70	130	1.5	20	
Manganese	4.90	mg/L	0.010	90	70	130	0.4	20	
Molybdenum	4.98	mg/L	0.10	96	70	130	0.7	20	
Vanadium	4.93	mg/L	0.10	97	70	130	0.8	20	
Zinc	4.87	mg/L	0.021	95	70	130	0.0	20	
Calcium	717	mg/L	1.0	95	70	130	0.3	20	
Magnesium	320	mg/L	1.0	101	70	130	0.3	20	
Potassium	305	mg/L	1.0	93	70	130	0.3	20	
Silica	36.1	mg/L	0.29		70	130	2.0	20	A
Sodium	578	mg/L	1.0	89	70	130	0.2	20	
Method: E200.7							Batch: C_R100523		
Sample ID: MB-080430A	Method Blank			Run: SUB-C100523			05/01/08 14:11		
Sodium	ND	mg/L	0.06						
Sample ID: LFB-080430A	Laboratory Fortified Blank			Run: SUB-C100523			05/01/08 14:14		
Sodium	51	mg/L	0.50	102	85	125			
Sample ID: C08050024-002AMS	Sample Matrix Spike			Run: SUB-C100523			05/01/08 14:48		
Sodium	66.1	mg/L	1.0	96	70	130			
Sample ID: C08050024-002AMSD	Sample Matrix Spike Duplicate			Run: SUB-C100523			05/01/08 14:52		
Sodium	67.0	mg/L	1.0	97	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18345		
Sample ID: MB-18345	Method Blank			Run: SUB-C100506			05/01/08 20:05		
Thorium 232	0.0002	mg/L							
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-18345	Laboratory Control Sample			Run: SUB-C100506			05/01/08 20:12		
Uranium	0.0548	mg/L	0.00030	104	80	120			
Sample ID: R08040220-002K	Post Digestion Spike			Run: SUB-C100506			05/01/08 20:58		
Thorium 232	0.0242	mg/L	0.0010	97	70	130			
Uranium	0.0255	mg/L	0.00030	98	70	130			
Sample ID: R08040220-002K	Post Digestion Spike Duplicate			Run: SUB-C100506			05/01/08 21:25		
Thorium 232	0.0246	mg/L	0.0010	98	70	130	1.6	20	
Uranium	0.0257	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18370		
Sample ID: MB-18370	Method Blank				Run: SUB-C100506		05/01/08 21:32		
Arsenic	ND	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Copper	ND	mg/L	0.0002						
Lead	2E-05	mg/L							
Thorium 232	0.00010	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100506		05/01/08 21:39		
Arsenic	0.561	mg/L	0.0010	112	85	115			
Cadmium	0.521	mg/L	0.010	104	85	115			
Copper	0.557	mg/L	0.010	111	85	115			
Lead	0.544	mg/L	0.050	109	85	115			
Thorium 232	0.548	mg/L	0.0010	110	85	115			
Uranium	0.545	mg/L	0.00032	109	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike				Run: SUB-C100506		05/01/08 23:00		
Arsenic	0.513	mg/L	0.0010	103	70	130			
Cadmium	0.499	mg/L	0.010	100	70	130			
Copper	0.504	mg/L	0.010	101	70	130			
Lead	0.512	mg/L	0.050	102	70	130			
Thorium 232	0.514	mg/L	0.0010	103	70	130			
Uranium	0.514	mg/L	0.00032	103	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate				Run: SUB-C100506		05/01/08 23:06		
Arsenic	0.551	mg/L	0.0010	110	70	130	7.2	20	
Cadmium	0.488	mg/L	0.010	98	70	130	2.3	20	
Copper	0.528	mg/L	0.010	106	70	130	4.8	20	
Lead	0.508	mg/L	0.050	102	70	130	0.8	20	
Thorium 232	0.514	mg/L	0.0010	103	70	130	0.1	20	
Uranium	0.516	mg/L	0.00032	103	70	130	0.5	20	
Sample ID: MB-18370	Method Blank				Run: SUB-C100685		05/05/08 14:02		
Arsenic	0.0002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	5E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100685		05/05/08 14:09		
Arsenic	0.559	mg/L	0.0010	112	85	115			
Copper	0.532	mg/L	0.010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18370		
Sample ID: LCS-18370	Laboratory Control Sample			Run: SUB-C100685			05/05/08 14:09		
Nickel	0.543	mg/L	0.050	109	85	115			
Silver	0.195	mg/L	0.010	98	85	115			
Zinc	0.551	mg/L	0.010	110	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike			Run: SUB-C100685			05/05/08 15:23		
Arsenic	0.523	mg/L	0.0010	105	70	130			
Copper	0.504	mg/L	0.010	101	70	130			
Nickel	0.509	mg/L	0.050	102	70	130			
Silver	0.186	mg/L	0.010	93	70	130			
Zinc	0.527	mg/L	0.010	105	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate			Run: SUB-C100685			05/05/08 15:30		
Arsenic	0.515	mg/L	0.0010	103	70	130	1.5	20	
Copper	0.497	mg/L	0.010	99	70	130	1.5	20	
Nickel	0.505	mg/L	0.050	101	70	130	0.7	20	
Silver	0.169	mg/L	0.010	84	70	130	9.5	20	
Zinc	0.519	mg/L	0.010	103	70	130	1.4	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100440		
Sample ID: LRB	Method Blank		Run: SUB-C100440			04/30/08 12:23			
Aluminum	ND	mg/L	0.0001						
Arsenic	9E-05	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	9E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C100440			04/30/08 12:30			
Aluminum	0.0512	mg/L	0.0010	102	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0518	mg/L	0.0010	104	85	115			
Chromium	0.0517	mg/L	0.0010	103	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0518	mg/L	0.0010	104	85	115			
Manganese	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Molybdenum	0.0528	mg/L	0.0010	106	85	115			
Nickel	0.0519	mg/L	0.0010	104	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Thorium 232	0.0517	mg/L	0.0010	103	85	115			
Uranium	0.0519	mg/L	0.00030	104	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0525	mg/L	0.0010	105	85	115			
Sample ID: C08040794-001BMS4	Post Digestion Spike		Run: SUB-C100440			05/01/08 06:48			
Aluminum	0.0488	mg/L	0.10	97	70	130			
Arsenic	0.0849	mg/L	0.0010	106	70	130			
Barium	0.0787	mg/L	0.10	104	70	130			
Cadmium	0.0480	mg/L	0.010	96	70	130			
Chromium	0.0495	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100440		
Sample ID: C08040794-001BMS4	Post Digestion Spike			Run: SUB-C100440			05/01/08 06:48		
Copper	0.0490	mg/L	0.010	96	70	130			
Lead	0.0508	mg/L	0.050	101	70	130			
Manganese	0.0910	mg/L	0.010	97	70	130			
Mercury	0.00522	mg/L	0.0010	104	70	130			
Molybdenum	0.0678	mg/L	0.10	104	70	130			
Nickel	0.0506	mg/L	0.050	96	70	130			
Silver	0.0181	mg/L	0.010	90	70	130			
Thorium 232	0.0533	mg/L	0.0010	106	70	130			
Uranium	0.0545	mg/L	0.00030	105	70	130			
Vanadium	0.0506	mg/L	0.10	101	70	130			
Zinc	0.0756	mg/L	0.010	95	70	130			
Sample ID: C08040794-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C100440			05/01/08 06:55		
Aluminum	0.0502	mg/L	0.10	100	70	130	0.0	20	
Arsenic	0.0854	mg/L	0.0010	107	70	130	0.5	20	
Barium	0.0790	mg/L	0.10	104	70	130	0.0	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	3.3	20	
Chromium	0.0483	mg/L	0.050	96	70	130	0.0	20	
Copper	0.0501	mg/L	0.010	98	70	130	2.4	20	
Lead	0.0507	mg/L	0.050	101	70	130	0.3	20	
Manganese	0.0891	mg/L	0.010	93	70	130	2.2	20	
Mercury	0.00528	mg/L	0.0010	106	70	130	1.1	20	
Molybdenum	0.0696	mg/L	0.10	107	70	130	0.0	20	
Nickel	0.0527	mg/L	0.050	100	70	130	4.0	20	
Silver	0.0192	mg/L	0.010	96	70	130	6.2	20	
Thorium 232	0.0530	mg/L	0.0010	106	70	130	0.6	20	
Uranium	0.0538	mg/L	0.00030	104	70	130	1.2	20	
Vanadium	0.0495	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0762	mg/L	0.010	96	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100506		
Sample ID: LRB	Method Blank			Run: SUB-C100506			05/01/08 12:04		
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C100506			05/01/08 12:10		
Barium	0.0469	mg/L	0.0010	94	85	115			
Cadmium	0.0468	mg/L	0.0010	94	85	115			
Lead	0.0480	mg/L	0.0010	96	85	115			
Mercury	0.00484	mg/L	0.0010	97	85	115			
Thorium 232	0.0476	mg/L	0.0010	95	85	115			
Uranium	0.0479	mg/L	0.00030	96	85	115			
Sample ID: R08040220-001A	Post Digestion Spike			Run: SUB-C100506			05/02/08 02:22		
Barium	0.0880	mg/L	0.10	108	70	130			
Cadmium	0.0427	mg/L	0.010	85	70	130			
Lead	0.0549	mg/L	0.050	110	70	130			
Mercury	0.00538	mg/L	0.0010	108	70	130			
Thorium 232	0.0608	mg/L	0.0010	121	70	130			
Uranium	0.0934	mg/L	0.00030	122	70	130			
Sample ID: R08040220-001A	Post Digestion Spike Duplicate			Run: SUB-C100506			05/02/08 02:29		
Barium	0.0848	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0408	mg/L	0.010	82	70	130	4.5	20	
Lead	0.0532	mg/L	0.050	106	70	130	3.2	20	
Mercury	0.00524	mg/L	0.0010	105	70	130	2.7	20	
Thorium 232	0.0589	mg/L	0.0010	118	70	130	3.2	20	
Uranium	0.0906	mg/L	0.00030	116	70	130	3.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100685		
Sample ID: LRB	Method Blank				Run: SUB-C100685		05/05/08 13:42		
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100685		05/05/08 13:48		
Arsenic	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0527	mg/L	0.0010	105	85	115			
Nickel	0.0527	mg/L	0.0010	105	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Sample ID: R08040250-007C	Post Digestion Spike				Run: SUB-C100685		05/05/08 23:16		
Arsenic	0.0602	mg/L	0.0010	106	70	130			
Copper	0.0495	mg/L	0.010	94	70	130			
Nickel	0.0568	mg/L	0.050	107	70	130			
Silver	0.00973	mg/L	0.010	49	70	130			S
Sample ID: R08040250-007C	Post Digestion Spike Duplicate				Run: SUB-C100685		05/05/08 23:23		
Arsenic	0.0629	mg/L	0.0010	111	70	130	4.3	20	
Copper	0.0518	mg/L	0.010	99	70	130	4.6	20	
Nickel	0.0635	mg/L	0.050	121	70	130	11	20	
Silver	0.00999	mg/L	0.010	50	70	130	0.0	20	S
Sample ID: C08040936-001AMS	Sample Matrix Spike				Run: SUB-C100685		05/06/08 03:00		
Arsenic	0.56	mg/L	0.0010	104	70	130			
Copper	0.49	mg/L	0.0015	98	70	130			
Nickel	0.50	mg/L	0.0010	98	70	130			
Silver	0.027	mg/L	0.0010	13	70	130			S
Sample ID: C08040936-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100685		05/06/08 03:07		
Arsenic	0.56	mg/L	0.0010	104	70	130	0.5	20	
Copper	0.50	mg/L	0.0015	99	70	130	1.8	20	
Nickel	0.51	mg/L	0.0010	100	70	130	2.3	20	
Silver	0.038	mg/L	0.0010	19	70	130	35	20	SR

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32271		
Sample ID: MB-32271	Method Blank					Run: SUB-C100762		05/06/08 16:10	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32271	Laboratory Fortified Blank					Run: SUB-C100762		05/06/08 16:12	
Mercury	0.0019	mg/L	0.0010	93	85	115			
Sample ID: B08050167-003CMS	Sample Matrix Spike					Run: SUB-C100762		05/06/08 16:22	
Mercury	0.0019	mg/L	0.0010	97	70	130			
Sample ID: B08050167-003CMSD	Sample Matrix Spike Duplicate					Run: SUB-C100762		05/06/08 16:24	
Mercury	0.0021	mg/L	0.0010	105	70	130	8.4	30	
Method: E300.0							Batch: R34324		
Sample ID: LFB0804184226-3	Laboratory Fortified Blank					Run: DIONEX_080418A		04/18/08 16:29	
Chloride	5.04	mg/L	0.50	101	90	110			
Fluoride	2.10	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0804184226-4	Laboratory Fortified Blank					Run: DIONEX_080418A		04/18/08 16:44	
Chloride	5.11	mg/L	0.50	102	90	110			
Fluoride	2.10	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08040220-002CMS	Sample Matrix Spike					Run: DIONEX_080418A		04/18/08 17:46	
Chloride	5.21	mg/L	0.50	104	80	120			
Fluoride	2.08	mg/L	0.10	104	80	120			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	80	120			
Sulfate	14.2	mg/L	1.0	95	80	120			
Sample ID: R08040220-002CMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080418A		04/18/08 18:01	
Chloride	4.94	mg/L	0.50	99	80	120	5.3	10	
Fluoride	1.99	mg/L	0.10	100	80	120	4.4	10	
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120	5.7	10	
Sulfate	13.5	mg/L	1.0	90	80	120	5.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0434		
Sample ID: MB-GrAB-0434	Method Blank				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	-1	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0434	Laboratory Control Sample				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	230	pCi/L	96	70	130				
Sample ID: Cs137-GrAB-0434	Laboratory Control Sample				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	90	pCi/L	98	70	130				
Sample ID: C08040851-001CMS	Sample Matrix Spike				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	239	pCi/L	98	70	130				
Sample ID: C08040851-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	256	pCi/L	105	70	130	6.9	14.4		
Sample ID: C08040851-001CMS	Sample Matrix Spike				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	95.6	pCi/L	105	70	130				
Sample ID: C08040851-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	93.8	pCi/L	103	70	130	1.9	15.7		
Sample ID: C08040278-009DDUP	Sample Duplicate				Run: SUB-C100683			05/01/08 12:00	
Gross Alpha	-1.02	pCi/L					51	197.9	U
Gross Beta	-3.27	pCi/L					27	111	
Method: E901.1							Batch: C_R99993		
Sample ID: LCS-R99993	Laboratory Control Sample				Run: SUB-C99993			04/21/08 16:56	
Americium 241	716	pCi/Filter	20	88	70	130			
Cesium 137	1200	pCi/Filter	20	86	70	130			
Sample ID: MB-R99993	Method Blank				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma		pCi/Filter							U
Sample ID: R08040220-002I	Sample Duplicate				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_R100731		
Sample ID: C08040702-004KMS	Sample Matrix Spike				Run: SUB-C100731			05/05/08 12:47	
Radium 226	55	pCi/L	87		70	130			
Sample ID: C08040702-004KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100731			05/05/08 14:17	
Radium 226	51	pCi/L	80		70	130	7.5	26.1	
Sample ID: MB-18345	Method Blank				Run: SUB-C100731			05/06/08 05:22	
Radium 226	1	pCi/L							U
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100731			05/06/08 06:52	
Radium 226	9.7	pCi/L	67		70	130			S
- LCS is low. Since all other QA is acceptable this batch is approved.									
Method: E903.0							Batch: C_RA226-2758		
Sample ID: C08040783-001AMS	Sample Matrix Spike				Run: SUB-C100799			05/05/08 15:41	
Radium 226	8.2	pCi/L	86		70	130			
Sample ID: C08040783-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100799			05/05/08 15:41	
Radium 226	8.2	pCi/L	86		70	130	0.2	21.7	
Sample ID: MB-RA226-2758	Method Blank				Run: SUB-C100799			05/05/08 17:29	
Radium 226	1	pCi/L							
Sample ID: LCS-RA226-2758	Laboratory Control Sample				Run: SUB-C100799			05/05/08 17:29	
Radium 226	6.9	pCi/L	93		70	130			
Method: E907.0							Batch: C_18345		
Sample ID: C08040702-001KMS	Sample Matrix Spike				Run: SUB-C100376			04/21/08 15:00	
Thorium 230	23.8	pCi/L	102		70	130			
Sample ID: C08040702-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100376			04/21/08 15:00	
Thorium 230	20.7	pCi/L	88		70	130	14	30	
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100376			04/21/08 15:00	
Thorium 230	54.4	pCi/L	0.20	111	70	130			
Sample ID: MB-18345	Method Blank				Run: SUB-C100376			04/21/08 15:00	
Thorium 230	0.6	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R100603
Sample ID: LCS-R100603 Thorium 230	Laboratory Control Sample 6.60	pCi/L	0.20	94	70	130			04/25/08 11:00
Sample ID: C08040863-001EMS Thorium 230	Sample Matrix Spike 13.7	pCi/L	0.20	85	70	130			04/25/08 11:00
Sample ID: C08040863-001EMSD Thorium 230	Sample Matrix Spike Duplicate 16.2	pCi/L	0.20	99	70	130	17	30	04/25/08 11:00
Sample ID: MB-R100603 Thorium 230	Method Blank 1E-05	pCi/L							04/25/08 11:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

Company Name: RESPEC		Project Name, PWS #, Permit #, Etc.: Powerful Dewey Burdock	
Report Mail Address: RESPEC		Contact Name, Phone, Fax, E-mail: Corry Brennan respec.com	
Invoice Address: RESPEC		Invoice Contact & Phone #: W	
Report Required For: <input type="checkbox"/> POT/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		Purchase Order #: _____	
Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> AZLA <input type="checkbox"/> Level IV <input type="checkbox"/> Other: _____		ELI Quote #: _____	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	
Number of Containers: _____ Sample Type: _____ Air Water Soils/Solids Vegetation: _____ Bioassay Other: _____		Comments: _____	
EDD/EDT <input type="checkbox"/> Format: _____		Receipt Temp: 4.6 °C in Ice	
Custody Seal Y N Intact Y N Signature Y N Match _____		Cooler ID(s): Ice	
LAB ID: _____		Custody Seal Y N Intact Y N Signature Y N Match _____	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Normal Turnaround (TAT)	
Collection Date		RUSH Turnaround (TAT)	
Collection Time		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	
MATRIX		Comments: _____	
1 Dew Burd CH01		4/16/08 15:30 W	
2 Dew Burd BLK01		4/16/08 15:45 W	
3			
4			
5			
6			
7			
8			
9			
10			
Relinquished by: [Signature]		Received by: [Signature]	
Relinquished Date/Time: 4/16/08 08:00		Received Date/Time: 4-17-08 09:00	
Shipped by: _____		LABORATORY USE ONLY	
Shipped Date/Time: _____		# of fractions: _____	
Sample Disposal: _____		Date/Time: _____	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analytical requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08050356 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 5/27/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050356-001	DewBurd CHR05	05/26/08 13:00	05/27/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08050356-002	DewBurd BVC01	05/26/08 14:00	05/27/08	Aqueous	Same As Above
R08050356-003	DewBurd CHR01	05/26/08 14:45	05/27/08	Aqueous	Same As Above



R08050356-004 DewBurd BVC04	05/26/08 16:30 05/27/08	Aqueous	Same As Above
R08050356-005 DewBurd BLK01	05/26/08 16:50 05/27/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	3500	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	90	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Bicarbonate as HCO3	110	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Calcium	34.3	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Chloride	17	mg/L		1		1	E300.0	05/28/08 20:31/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/28/08 20:31/jmh
Magnesium	10.1	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:34/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	05/28/08 20:31/jmh
Potassium	6	mg/L		1		2	E200.7	06/16/08 18:28/eli-c
Silica	2.9	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Sodium	54	mg/L	D	2		2	E200.7	06/16/08 18:28/eli-c
Sulfate	180	mg/L	D	3		50	E300.0	05/28/08 19:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	537	umhos/cm		5.0		1	A2510 B	05/29/08 15:07/tb
pH	7.78	s.u.		0.01		1	A4500-H B	05/29/08 14:11/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:03/mb
Solids, Total Dissolved TDS @ 180 C	340	mg/L		5		1	A2540 C	05/30/08 11:51/mb
Solids, Total Suspended TSS @ 105 C	4900	mg/L		5		1	A2540 D	05/28/08 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:38/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	06/16/08 18:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Uranium	0.0028	mg/L		0.0003		1	E200.8	06/22/08 18:38/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
METALS - SUSPENDED								
Thorium 232	0.035	mg/L		0.001		1	E200.8	06/23/08 10:54/eli-c
Uranium	0.0067	mg/L		0.0003		1	E200.8	06/23/08 10:54/eli-c
METALS - TOTAL								
Aluminum	170	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Arsenic	0.029	mg/L		0.001		5	E200.8	06/14/08 00:07/eli-c
Barium	0.9	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	06/14/08 00:07/eli-c
Chromium	0.19	mg/L		0.05		2	E200.7	06/12/08 18:16/eli-c
Chromium, Hexavalent	0.009	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.10	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Iron	108	mg/L	D	0.2		2	E200.7	06/12/08 18:16/eli-c
Lead	0.110	mg/L		0.001		5	E200.8	06/14/08 00:07/eli-c
Manganese	1.39	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Nickel	0.10	mg/L		0.05		2	E200.7	06/12/08 18:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:15/eli-c
Thorium 232	0.046	mg/L		0.005		5	E200.8	06/14/08 00:07/eli-c
Uranium	0.0122	mg/L		0.0003		5	E200.8	06/14/08 00:07/eli-c
Vanadium	0.3	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Zinc	0.47	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Calcium	70.8	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Magnesium	44.8	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Potassium	31.5	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Silica	56.4	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Sodium	58	mg/L	D	1		2	E200.7	06/12/08 18:16/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:46/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:43/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level. Page 2 of 20
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
 Collection Date: 05/26/08 13:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:18/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:16/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	0.7	pCi/L	U				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.8	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	-0.3	pCi/L	U	1.0			1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	1.4	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	11.2	pCi/L	U				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.8	pCi/L		1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	1.7	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	3.8	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.2	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	29.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.6	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.0	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	22.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-001
 Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
 Collection Date: 05/26/08 13:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma	40.1	pCi/L		20.0			1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	15.3	pCi/L					1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	12	pCi/L	U				1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	12	pCi/L					1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.5	pCi/L		1.0			1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	1.8	pCi/L					1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	5.1	pCi/L					1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	0.7	pCi/L					1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.3	pCi/L		0.2			1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:20/eli-b
DATA QUALITY									
A/C Balance (± 5)	-9.14	%					1	A1030 E	07/21/08 00:00/jmh
Anions	6.07	meq/L					1	A1030 E	07/21/08 00:00/jmh
Cations	5.05	meq/L					1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	365	mg/L					1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	07/21/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-002
 Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	5700	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	84	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Bicarbonate as HCO3	102	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Calcium	75.5	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Chloride	38	mg/L	D	5		50	E300.0	05/28/08 20:47/jmh
Chloride	24	mg/L		1		5	E300.0	05/29/08 23:44/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/28/08 21:03/jmh
Magnesium	17.2	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:35/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	05/28/08 21:03/jmh
Potassium	7	mg/L		1		2	E200.7	06/16/08 19:08/eli-c
Silica	2.9	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Sodium	93	mg/L	D	2		2	E200.7	06/16/08 19:08/eli-c
Sulfate	317	mg/L	D	3		50	E300.0	05/28/08 20:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	908	umhos/cm		5.0		1	A2510 B	05/29/08 15:08/tb
pH	7.69	s.u.		0.01		1	A4500-H B	05/29/08 14:12/tb
Sodium Adsorption Ratio (SAR)	2.5	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:04/mb
Solids, Total Dissolved TDS @ 180 C	620	mg/L		5		1	A2540 C	05/30/08 11:53/mb
Solids, Total Suspended TSS @ 105 C	4600	mg/L		5		1	A2540 D	05/28/08 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:45/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:45/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 19:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-002
 Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			2	E200.7	06/16/08 19:08/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 18:45/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	06/22/08 18:45/eli-c
Uranium	0.0020	mg/L		0.0003			1	E200.8	06/22/08 18:45/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 19:08/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/16/08 19:08/eli-c
METALS - SUSPENDED									
Thorium 232	0.013	mg/L		0.001			1	E200.8	06/23/08 11:21/eli-c
Uranium	0.0031	mg/L		0.0003			1	E200.8	06/23/08 11:21/eli-c
METALS - TOTAL									
Aluminum	99.3	mg/L		0.1			2	E200.7	06/12/08 18:20/eli-c
Arsenic	0.048	mg/L		0.001			5	E200.8	06/14/08 00:14/eli-c
Barium	1.1	mg/L		0.1			2	E200.7	06/12/08 18:20/eli-c
Boron	0.3	mg/L		0.1			2	E200.7	06/12/08 18:20/eli-c
Cadmium	ND	mg/L		0.005			5	E200.8	06/14/08 00:14/eli-c
Chromium	0.19	mg/L		0.05			2	E200.7	06/12/08 18:20/eli-c
Chromium, Hexavalent	ND	mg/L		0.005			1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	07/21/08 00:00/jmh
Copper	0.11	mg/L		0.01			2	E200.7	06/12/08 18:20/eli-c
Iron	137	mg/L	D	0.2			2	E200.7	06/12/08 18:20/eli-c
Lead	0.088	mg/L		0.001			5	E200.8	06/14/08 00:14/eli-c
Manganese	1.82	mg/L		0.01			2	E200.7	06/12/08 18:20/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/12/08 18:20/eli-c
Nickel	0.15	mg/L		0.05			2	E200.7	06/12/08 18:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 21:22/eli-c
Thorium 232	0.040	mg/L		0.005			5	E200.8	06/14/08 00:14/eli-c
Uranium	0.0109	mg/L		0.0003			5	E200.8	06/14/08 00:14/eli-c
Vanadium	0.4	mg/L		0.1			2	E200.7	06/12/08 18:20/eli-c
Zinc	0.54	mg/L		0.01			2	E200.7	06/12/08 18:20/eli-c
Calcium	132	mg/L		0.5			2	E200.7	06/12/08 18:20/eli-c
Magnesium	59.8	mg/L		0.5			2	E200.7	06/12/08 18:20/eli-c
Potassium	37.4	mg/L		0.5			2	E200.7	06/12/08 18:20/eli-c
Silica	51.9	mg/L		0.5			2	E200.7	06/12/08 18:20/eli-c
Sodium	99	mg/L	D	1			2	E200.7	06/12/08 18:20/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.005			1	A3114 B	06/20/08 15:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-002
 Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-IV	0.002	mg/L		0.001			1	A3114 B	06/20/08 10:50/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:37/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:26/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	-1	pCi/L	U				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.90	pCi/L					1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	2.0	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	15.3	pCi/L	U				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	42.4	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.0	pCi/L		1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	3.3	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	3.1	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.6	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.0	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	3.4	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	18.2	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.0	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.5	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	12.7	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	3.3	pCi/L					1	E900.0	06/28/08 01:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-002
 Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:00
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - TOTAL								
Gross Beta MDC	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	14	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	43	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.3	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.4	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	5.1	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	3.4	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:22/eli-b
DATA QUALITY								
A/C Balance (± 5)	0.0500	%				1	A1030 E	07/21/08 00:00/jmh
Anions	9.42	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	9.43	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	609	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	07/21/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-003
 Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:45
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2100	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Calcium	29.7	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Chloride	2	mg/L		1		1	E300.0	05/28/08 21:36/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/28/08 21:36/jmh
Magnesium	9.0	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:38/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	05/28/08 21:36/jmh
Potassium	6	mg/L		1		2	E200.7	06/16/08 19:12/eli-c
Silica	2.6	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Sodium	28	mg/L	D	2		2	E200.7	06/16/08 19:12/eli-c
Sulfate	86	mg/L		1		1	E300.0	05/28/08 21:36/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	367	umhos/cm		5.0		1	A2510 B	05/29/08 15:09/tb
pH	7.81	s.u.		0.01		1	A4500-H B	05/29/08 14:13/tb
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:06/mb
Solids, Total Dissolved TDS @ 180 C	400	mg/L		5		1	A2540 C	05/30/08 11:53/mb
Solids, Total Suspended TSS @ 105 C	4400	mg/L		5		1	A2540 D	05/28/08 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:52/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	06/16/08 19:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-003
 Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:45
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	06/22/08 18:52/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
METALS - SUSPENDED								
Thorium 232	0.017	mg/L		0.001		1	E200.8	06/23/08 11:27/eli-c
Uranium	0.0038	mg/L		0.0003		1	E200.8	06/23/08 11:27/eli-c
METALS - TOTAL								
Aluminum	94.7	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Arsenic	0.024	mg/L	D	0.003		5	E200.8	06/14/08 00:21/eli-c
Barium	0.8	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	06/14/08 00:21/eli-c
Chromium	0.19	mg/L		0.05		2	E200.7	06/12/08 18:24/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jrmh
Copper	0.10	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Iron	88.3	mg/L		0.03		2	E200.7	06/12/08 18:24/eli-c
Lead	0.118	mg/L		0.001		5	E200.8	06/14/08 00:21/eli-c
Manganese	1.19	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Nickel	0.08	mg/L		0.05		2	E200.7	06/12/08 18:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:29/eli-c
Thorium 232	0.046	mg/L		0.005		5	E200.8	06/14/08 00:21/eli-c
Uranium	0.0119	mg/L		0.0003		5	E200.8	06/14/08 00:21/eli-c
Vanadium	0.3	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Zinc	0.46	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Calcium	62.0	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Magnesium	37.3	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Potassium	27.4	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Silica	63.5	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Sodium	30	mg/L	D	1		2	E200.7	06/12/08 18:24/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:54/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-003
 Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:45
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:39/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.5	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	0.06	pCi/L	U			1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
- For Ra226, the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on this sample due to significant matrix interferences.								
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	42.2	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	4.1	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	3.2	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	4.0	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.2	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.0	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.2	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	29.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	2.3	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	22.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-003
 Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
 Collection Date: 05/26/08 14:45
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - TOTAL								
Gross Beta MDC	3.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	5	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	43	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	4.6	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.5	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	4.1	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.1	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.2	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:24/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.47	%				1	A1030 E	07/21/08 00:00/jmh
Anions	3.51	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	3.61	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	219	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.84					1	A1030 E	07/21/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-004
 Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
 Collection Date: 05/26/08 16:30
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MICROBIOLOGICAL									
Bacteria, Fecal Coliform	1200	CFU/100ml	D	100			100	A9222 D	05/27/08 12:40/tb
MAJOR IONS									
Alkalinity, Total as CaCO3	84	mg/L		5			1	A2320 B	06/02/08 11:12/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:12/mb
Bicarbonate as HCO3	102	mg/L		5			1	A2320 B	06/02/08 11:12/mb
Calcium	51.5	mg/L		0.5			2	E200.7	06/16/08 19:16/eli-c
Chloride	9	mg/L		1			1	E300.0	05/28/08 22:09/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	05/28/08 22:09/jmh
Magnesium	13.2	mg/L		0.5			2	E200.7	06/16/08 19:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	05/28/08 13:42/jmh
Nitrogen, Nitrate as N	0.3	mg/L		0.1			1	E300.0	05/28/08 22:09/jmh
Potassium	6	mg/L		1			2	E200.7	06/16/08 19:16/eli-c
Silica	2.8	mg/L		0.5			2	E200.7	06/16/08 19:16/eli-c
Sodium	89	mg/L	D	2			2	E200.7	06/16/08 19:16/eli-c
Sulfate	286	mg/L	D	3			50	E300.0	05/28/08 21:53/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	784	umhos/cm		5.0			1	A2510 B	05/29/08 15:11/tb
pH	7.71	s.u.		0.01			1	A4500-H B	05/29/08 14:14/tb
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.10			1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	2700	mg/L		5			1	D3977	05/29/08 16:07/mb
Solids, Total Dissolved TDS @ 180 C	520	mg/L		5			1	A2540 C	05/30/08 11:54/mb
Solids, Total Suspended TSS @ 105 C	2200	mg/L		5			1	A2540 D	05/28/08 09:22/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:16/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/22/08 18:59/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:16/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	06/16/08 19:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/22/08 18:59/eli-c
Chromium	ND	mg/L		0.01			2	E200.7	06/16/08 19:16/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/22/08 18:59/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	06/16/08 19:16/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/22/08 18:59/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	06/16/08 19:16/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/22/08 18:59/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:16/eli-c
Nickel	ND	mg/L		0.01			2	E200.7	06/16/08 19:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-004
 Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
 Collection Date: 05/26/08 16:30
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:59/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	06/22/08 18:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:16/eli-c
METALS - SUSPENDED								
Thorium 232	0.009	mg/L		0.001		1	E200.8	06/23/08 11:34/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	06/23/08 11:34/eli-c
METALS - TOTAL								
Aluminum	61.3	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Arsenic	0.023	mg/L	D	0.003		5	E200.8	06/14/08 00:28/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	06/12/08 18:28/eli-c
Chromium	0.08	mg/L		0.05		2	E200.7	06/12/08 18:28/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.07	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Iron	63.1	mg/L		0.03		2	E200.7	06/12/08 18:28/eli-c
Lead	0.047	mg/L		0.001		5	E200.8	06/14/08 00:28/eli-c
Manganese	1.34	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Nickel	0.08	mg/L		0.05		2	E200.7	06/12/08 18:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:36/eli-c
Thorium 232	0.021	mg/L		0.005		5	E200.8	06/14/08 00:28/eli-c
Uranium	0.0069	mg/L		0.0003		5	E200.8	06/14/08 00:28/eli-c
Vanadium	0.2	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Zinc	0.27	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Calcium	81.3	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Magnesium	32.8	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Potassium	20.4	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Silica	77.6	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Sodium	96	mg/L	D	1		2	E200.7	06/12/08 18:28/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:57/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-004
Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
Collection Date: 05/26/08 16:30
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:41/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:30/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	0.9	pCi/L	U				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.8	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L					1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	-0.06	pCi/L	U				1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 13:30/eli-c
- For Ra226, the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on this sample due to significant matrix interferences.									
RADIONUCLIDES - SUSPENDED									
Lead 210	-30	pCi/L	U				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	41.5	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.7	pCi/L		1.0			1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	2.9	pCi/L					1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	2.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.6	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.1	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	12.5	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.7	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.1	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	12.9	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.5	pCi/L					1	E900.0	06/28/08 01:42/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-004
 Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
 Collection Date: 05/26/08 16:30
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Beta MDC	3.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	-33	pCi/L	U				1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	42	pCi/L					1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.8	pCi/L		1.0			1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.1	pCi/L					1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	2.2	pCi/L	U				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.6	pCi/L					1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.1	pCi/L		0.2			1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.2	pCi/L					1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:31/eli-b
DATA QUALITY									
A/C Balance (± 5)	-1.82	%					1	A1030 E	07/21/08 00:00/jmh
Anions	7.96	meq/L					1	A1030 E	07/21/08 00:00/jmh
Cations	7.68	meq/L					1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	516	mg/L					1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	07/21/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-005
Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
Collection Date: 05/26/08 16:50
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Calcium	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Chloride	ND	mg/L		1		1	E300.0	05/28/08 22:58/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	05/28/08 22:58/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/28/08 22:58/jmh
Potassium	ND	mg/L		1		2	E200.7	06/16/08 19:20/eli-c
Silica	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	06/16/08 19:20/eli-c
Sulfate	ND	mg/L		1		1	E300.0	05/28/08 22:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5.1	umhos/cm		5.0		1	A2510 B	05/29/08 15:13/tb
pH	4.79	s.u.		0.01		1	A4500-H B	05/29/08 14:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	05/28/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	05/30/08 11:55/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	05/28/08 09:23/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 19:05/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 19:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 19:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
 Collection Date: 05/26/08 16:50
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Nickel	ND	mg/L		0.01			2	E200.7	06/16/08 19:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 19:05/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	06/22/08 19:05/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/22/08 19:05/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 19:20/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/16/08 19:20/eli-c
METALS - SUSPENDED									
Thorium 232	ND	mg/L		0.001			1	E200.8	06/23/08 11:41/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/23/08 11:41/eli-c
METALS - TOTAL									
Aluminum	ND	mg/L		0.1			2	E200.7	06/12/08 18:32/eli-c
Arsenic	ND	mg/L	D	0.003			1	E200.8	06/14/08 00:34/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/12/08 18:32/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/12/08 18:32/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 00:34/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/12/08 18:32/eli-c
Chromium, Hexavalent	ND	mg/L		0.005			1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01			1	Calculation	07/21/08 00:00/jmh
Copper	ND	mg/L		0.01			2	E200.7	06/12/08 18:32/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/12/08 18:32/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 00:34/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	06/12/08 18:32/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/12/08 18:32/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/12/08 18:32/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 21:42/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	06/14/08 00:34/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/14/08 00:34/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/12/08 18:32/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/12/08 18:32/eli-c
Calcium	ND	mg/L		0.5			2	E200.7	06/12/08 18:32/eli-c
Magnesium	ND	mg/L		0.5			2	E200.7	06/12/08 18:32/eli-c
Potassium	ND	mg/L		0.5			2	E200.7	06/12/08 18:32/eli-c
Silica	ND	mg/L		0.5			2	E200.7	06/12/08 18:32/eli-c
Sodium	ND	mg/L	D	1			2	E200.7	06/12/08 18:32/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.005			1	A3114 B	06/20/08 16:03/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
 Collection Date: 05/26/08 16:50
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:00/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:43/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	-0.4	pCi/L	U				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L					1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L					1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	-0.1	pCi/L	U				1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.09	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-4	pCi/L	U				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.29	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.5	pCi/L	U				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	-0.2	pCi/L	U				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	0.6	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	1.0	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	-1	pCi/L	U				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	1.7	pCi/L					1	E900.0	06/28/08 01:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050356-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
 Collection Date: 05/26/08 16:50
 Date Received: 05/27/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - TOTAL								
Gross Beta MDC	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-4	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	12	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	0.76	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	-0.6	pCi/L	U			1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:34/eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080602A-ALK-SEL-W							
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	06/02/08 11:38
Method: A2510 B		Batch: 080529_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080529 Conductivity @ 25 C	Laboratory Control Sample 1390	umhos/cm	5.0	98	90	110			05/29/08 15:04
Sample ID: LCS1-1_080529 Conductivity @ 25 C	Laboratory Control Sample 153	umhos/cm	5.0	102	90	110			05/29/08 15:02
Sample ID: LCS2-1_080529 Conductivity @ 25 C	Laboratory Control Sample 4890	umhos/cm	5.0	98	90	110			05/29/08 15:01
Sample ID: R08050406-005ADUP Conductivity @ 25 C	Sample Duplicate 1040	umhos/cm	5.0				1.0	10	05/29/08 15:22
Method: A2540 C		Batch: 080530A-SLDS-TDS-W							
Sample ID: LCS1_080530A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			05/30/08 11:44
Sample ID: MBLK1_080530A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						05/30/08 11:45
Sample ID: R08050356-001CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 550	mg/L	5.0	106	80	120			05/30/08 11:52
Sample ID: R08050356-001CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 560	mg/L	5.0	108	80	120	0.7	10	05/30/08 11:52

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080528A-SLDS-TSS-W		
Sample ID: LCS1_080528A	Laboratory Control Sample				Run: BAL-4-R_080528A			05/28/08 09:11	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Sample ID: MBLK1_080528A	Method Blank				Run: BAL-4-R_080528A			05/28/08 09:12	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard				Run: SUB-C102993			06/20/08 09:57	
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C102993			06/20/08 10:11	
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike				Run: SUB-C102993			06/20/08 10:45	
Selenium-IV	0.069	mg/L	0.0010	137	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate				Run: SUB-C102993			06/20/08 10:48	
Selenium-IV	0.075	mg/L	0.0010	151	85	115	9.3	10	S
Sample ID: C08060097-001HMS	Sample Matrix Spike				Run: SUB-C102993			06/20/08 11:18	
Selenium-IV	0.046	mg/L	0.0010	93	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102993			06/20/08 11:20	
Selenium-IV	0.048	mg/L	0.0010	96	85	115	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C103018			06/20/08 15:10
Sample ID: 288-92-2 Selenium	Laboratory Control Sample 0.049 mg/L		0.0010	99	90	110			06/20/08 15:14
Sample ID: R08050356-001A Selenium	Sample Matrix Spike 0.073 mg/L		0.0010	146	85	115			06/20/08 15:48 S
Sample ID: R08050356-001A Selenium	Sample Matrix Spike Duplicate 0.073 mg/L		0.0010	145	85	115	0.0	10	06/20/08 15:50 S
Sample ID: C08060097-001HMS Selenium	Sample Matrix Spike 0.044 mg/L		0.0010	87	85	115			06/20/08 16:20
Sample ID: C08060097-001HMSD Selenium	Sample Matrix Spike Duplicate 0.044 mg/L		0.0010	89	85	115	1.8	10	06/20/08 16:22
Method: A3500-Cr B							Batch: 080527-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND mg/L		0.005			Run: SPEC1_080527A			05/27/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.24 mg/L		0.0050	119	80	120			05/27/08 00:00
Sample ID: R08050355-001E Chromium, Hexavalent	Sample Matrix Spike 2.3 mg/L		0.050	115	80	120			05/27/08 00:00
Sample ID: R08050356-001E Chromium, Hexavalent	Sample Matrix Spike 0.24 mg/L		0.0050	113	80	120			05/27/08 00:00
Sample ID: R08050356-002E Chromium, Hexavalent	Sample Matrix Spike 0.24 mg/L		0.0050	118	80	120			05/27/08 00:00
Sample ID: R08050356-003E Chromium, Hexavalent	Sample Matrix Spike 0.24 mg/L		0.0050	120	80	120			05/27/08 00:00
Sample ID: R08050356-004E Chromium, Hexavalent	Sample Matrix Spike 0.24 mg/L		0.0050	118	80	120			05/27/08 00:00
Sample ID: R08050356-005E Chromium, Hexavalent	Sample Matrix Spike 0.24 mg/L		0.0050	119	80	120			05/27/08 00:00

Qualifiers:

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S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080529_1_PH-W		
Sample ID: LCS_pH-1_080529 pH	Laboratory Control Sample 6.92 s.u.		0.010	101	98.55	101.45			Run: PH_COND2-R_080529A 05/29/08 14:07
Sample ID: R08050406-003ADUP pH	Sample Duplicate 6.99 s.u.		0.010				0.6	1.25	Run: PH_COND2-R_080529A 05/29/08 14:24
Method: A4500-NH3 G							Batch: A2008-05-28_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND mg/L		0.01						Run: TECHAA2-R_080528A 05/28/08 10:35
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27 mg/L		0.10	107	90	110			Run: TECHAA2-R_080528A 05/28/08 10:36
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25 mg/L		0.10	100	90	110			Run: TECHAA2-R_080528A 05/28/08 10:38
Sample ID: R08050356-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.26 mg/L		0.10	93	80	120			Run: TECHAA2-R_080528A 05/28/08 13:40
Sample ID: R08050356-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.26 mg/L		0.10	92	80	120	1.2	10	Run: TECHAA2-R_080528A 05/28/08 13:41
Method: A9222 D							Batch: 080527-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND CFU/100ml								Run: MEMFILT_080527A 05/27/08 10:40
Sample ID: R08050353-001A Bacteria, Fecal Coliform	Sample Duplicate 38 CFU/100ml		2.0				5.1	10	Run: MEMFILT_080527A 05/27/08 10:40

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18755		
Sample ID: MB-18755	Method Blank		Run: SUB-C102628			06/12/08 17:28			
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Cadmium	ND	mg/L	0.001						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.009	mg/L	0.005						
Zinc	0.003	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18755	Laboratory Control Sample		Run: SUB-C102628			06/12/08 17:32			
Aluminum	2.57	mg/L	0.10	103	85	115			
Barium	0.537	mg/L	0.10	107	85	115			
Boron	0.555	mg/L	0.10	104	85	115			
Cadmium	0.261	mg/L	0.010	104	85	115			
Chromium	0.532	mg/L	0.050	106	85	115			
Copper	0.529	mg/L	0.010	106	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.66	mg/L	0.010	107	85	115			
Molybdenum	0.525	mg/L	0.10	105	85	115			
Nickel	0.513	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	106	85	115			
Zinc	0.535	mg/L	0.010	106	85	115			
Calcium	27.7	mg/L	1.0	111	85	115			
Magnesium	27.7	mg/L	1.0	111	85	115			
Potassium	26.3	mg/L	1.0	105	85	115			
Silica	5.95	mg/L	0.10	119	85	115			S
Sodium	26.7	mg/L	1.0	107	85	115			
- Response for Silica is above standard QA limit. Since the other batch QA is within acceptance range, this batch is approved.									
Sample ID: R08050356-005B	Sample Matrix Spike		Run: SUB-C102628			06/12/08 18:36			
Aluminum	2.53	mg/L	0.10	101	70	130			
Barium	0.503	mg/L	0.10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18755		
Sample ID: R08050356-005B	Sample Matrix Spike			Run: SUB-C102628			06/12/08 18:36		
Boron	0.480	mg/L	0.10	96	70	130			
Cadmium	0.253	mg/L	0.010	101	70	130			
Chromium	0.510	mg/L	0.050	102	70	130			
Copper	0.497	mg/L	0.010	99	70	130			
Iron	2.66	mg/L	0.030	106	70	130			
Manganese	2.55	mg/L	0.010	102	70	130			
Molybdenum	0.494	mg/L	0.10	99	70	130			
Nickel	0.496	mg/L	0.050	99	70	130			
Vanadium	0.622	mg/L	0.10	114	70	130			
Zinc	0.501	mg/L	0.010	100	70	130			
Calcium	26.2	mg/L	1.0	105	70	130			
Magnesium	26.9	mg/L	1.0	107	70	130			
Potassium	26.1	mg/L	1.0	104	70	130			
Silica	6.03	mg/L	0.10	112	70	130			
Sodium	24.9	mg/L	1.1	100	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate			Run: SUB-C102628			06/12/08 18:41		
Aluminum	2.52	mg/L	0.10	101	70	130	0.6	20	
Barium	0.496	mg/L	0.10	99	70	130	1.4	20	
Boron	0.474	mg/L	0.10	95	70	130	1.4	20	
Cadmium	0.245	mg/L	0.010	98	70	130	3.0	20	
Chromium	0.503	mg/L	0.050	101	70	130	1.4	20	
Copper	0.499	mg/L	0.010	100	70	130	0.6	20	
Iron	2.63	mg/L	0.030	104	70	130	1.4	20	
Manganese	2.51	mg/L	0.010	100	70	130	1.6	20	
Molybdenum	0.497	mg/L	0.10	99	70	130	0.5	20	
Nickel	0.506	mg/L	0.050	101	70	130	1.9	20	
Vanadium	0.631	mg/L	0.10	115	70	130	1.4	20	
Zinc	0.505	mg/L	0.010	100	70	130	0.8	20	
Calcium	26.5	mg/L	1.0	106	70	130	1.2	20	
Magnesium	26.6	mg/L	1.0	106	70	130	0.9	20	
Potassium	25.6	mg/L	1.0	103	70	130	1.8	20	
Silica	5.97	mg/L	0.10	110	70	130	1.0	20	
Sodium	24.8	mg/L	1.1	99	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: MB-080616A	Method Blank		Run: SUB-C102753			06/16/08 15:33			
Silica	ND	mg/L	0.02						
Aluminum	0.01	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.005	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080616A	Laboratory Fortified Blank		Run: SUB-C102753			06/16/08 15:37			
Silica	0.37	mg/L	0.10	92	85	125			
Aluminum	0.99	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.00	mg/L	0.10	98	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	52	mg/L	0.50	104	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: C08060096-002CMS2	Sample Matrix Spike		Run: SUB-C102753			06/16/08 18:08			
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.08	mg/L	0.10	104	70	130			
Boron	2.10	mg/L	0.10	102	70	130			
Chromium	2.09	mg/L	0.050	104	70	130			
Iron	2.14	mg/L	0.030	106	70	130			
Manganese	2.13	mg/L	0.010	103	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: C08060096-002CMS2	Sample Matrix Spike		Run: SUB-C102753				06/16/08 18:08		
Nickel	2.06	mg/L	0.050	103	70	130			
Vanadium	2.12	mg/L	0.10	104	70	130			
Zinc	2.10	mg/L	0.010	104	70	130			
Calcium	141	mg/L	1.0	102	70	130			
Magnesium	117	mg/L	1.0	104	70	130			
Potassium	98.4	mg/L	1.0	92	70	130			
Silica	4.58	mg/L	0.10		70	130			A
Sodium	372	mg/L	1.5	95	70	130			
Sample ID: C08060096-002CMSD2	Sample Matrix Spike Duplicate		Run: SUB-C102753				06/16/08 18:12		
Aluminum	1.98	mg/L	0.10	99	70	130	1.6	20	
Barium	2.12	mg/L	0.10	106	70	130	2.0	20	
Boron	2.16	mg/L	0.10	105	70	130	2.9	20	
Chromium	2.13	mg/L	0.050	106	70	130	1.9	20	
Iron	2.16	mg/L	0.030	108	70	130	1.2	20	
Manganese	2.17	mg/L	0.010	105	70	130	1.9	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	3.2	20	
Nickel	2.12	mg/L	0.050	106	70	130	2.4	20	
Vanadium	2.21	mg/L	0.10	108	70	130	4.1	20	
Zinc	2.15	mg/L	0.010	106	70	130	2.4	20	
Calcium	145	mg/L	1.0	106	70	130	2.7	20	
Magnesium	121	mg/L	1.0	107	70	130	2.7	20	
Potassium	99.1	mg/L	1.0	92	70	130	0.7	20	
Silica	4.65	mg/L	0.10		70	130	1.3	20	A
Sodium	369	mg/L	1.5	92	70	130	0.7	20	
Sample ID: R08050419-003C	Sample Matrix Spike		Run: SUB-C102753				06/16/08 19:37		
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.05	mg/L	0.10	103	70	130			
Boron	2.11	mg/L	0.10	103	70	130			
Chromium	2.11	mg/L	0.050	105	70	130			
Iron	2.22	mg/L	0.030	110	70	130			
Manganese	2.15	mg/L	0.010	103	70	130			
Molybdenum	2.02	mg/L	0.10	101	70	130			
Nickel	2.10	mg/L	0.050	105	70	130			
Vanadium	2.31	mg/L	0.10	110	70	130			
Zinc	2.14	mg/L	0.010	107	70	130			
Calcium	165	mg/L	1.0	106	70	130			
Magnesium	136	mg/L	1.0	109	70	130			
Potassium	103	mg/L	1.0	89	70	130			
Silica	4.18	mg/L	0.10		70	130			A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: R08050419-003C	Sample Matrix Spike			Run: SUB-C102753			06/16/08 19:37		
Sodium	335	mg/L	1.5	95	70	130			
Sample ID: R08050419-003C	Sample Matrix Spike Duplicate			Run: SUB-C102753			06/16/08 19:41		
Aluminum	1.93	mg/L	0.10	97	70	130	1.1	20	
Barium	2.03	mg/L	0.10	101	70	130	1.4	20	
Boron	2.10	mg/L	0.10	102	70	130	0.8	20	
Chromium	2.07	mg/L	0.050	103	70	130	1.9	20	
Iron	2.17	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.13	mg/L	0.010	102	70	130	1.0	20	
Molybdenum	2.00	mg/L	0.10	100	70	130	1.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	2.6	20	
Vanadium	2.23	mg/L	0.10	106	70	130	3.8	20	
Zinc	2.09	mg/L	0.010	105	70	130	2.1	20	
Calcium	165	mg/L	1.0	106	70	130	0.0	20	
Magnesium	133	mg/L	1.0	107	70	130	2.1	20	
Potassium	104	mg/L	1.0	91	70	130	1.8	20	
Silica	4.12	mg/L	0.10		70	130	1.2	20	A
Sodium	336	mg/L	1.5	95	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18755		
Sample ID: MB-18755	Method Blank		Run: SUB-C102666			06/13/08 23:07			
Arsenic	0.002	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	6E-06	mg/L							
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18755	Laboratory Control Sample		Run: SUB-C102666			06/13/08 23:13			
Arsenic	0.504	mg/L	0.0010	100	85	115			
Cadmium	0.246	mg/L	0.010	98	85	115			
Lead	0.500	mg/L	0.050	100	85	115			
Thorium 232	0.508	mg/L	0.0010	102	85	115			
Uranium	0.513	mg/L	0.00032	103	85	115			
Sample ID: R08050356-005B	Sample Matrix Spike		Run: SUB-C102666			06/14/08 00:41			
Arsenic	0.497	mg/L	0.0010	99	70	130			
Cadmium	0.246	mg/L	0.010	98	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Silver	0.0391	mg/L	0.010	78	70	130			
Thorium 232	0.506	mg/L	0.0010	101	70	130			
Uranium	0.513	mg/L	0.00032	103	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate		Run: SUB-C102666			06/14/08 00:48			
Arsenic	0.551	mg/L	0.0010	110	70	130	10	20	
Cadmium	0.264	mg/L	0.010	106	70	130	7.4	20	
Lead	0.551	mg/L	0.050	110	70	130	9.9	20	
Silver	0.0440	mg/L	0.010	88	70	130	12	20	
Thorium 232	0.573	mg/L	0.0010	115	70	130	12	20	
Uranium	0.576	mg/L	0.00032	115	70	130	12	20	
Sample ID: R08050356-005B	Sample Matrix Spike		Run: SUB-C102755			06/16/08 14:18			
Arsenic	0.506	mg/L	0.0010	101	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Lead	0.507	mg/L	0.050	101	70	130			
Silver	0.0448	mg/L	0.010	90	70	130			
Thorium 232	0.510	mg/L	0.0010	102	70	130			
Uranium	0.514	mg/L	0.00032	103	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate		Run: SUB-C102755			06/16/08 14:25			
Arsenic	0.495	mg/L	0.0010	99	70	130	2.2	20	
Cadmium	0.244	mg/L	0.010	98	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18755		
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate			Run: SUB-C102755			06/16/08 14:25		
Lead	0.498	mg/L	0.050	100	70	130	1.9	20	
Silver	0.0440	mg/L	0.010	88	70	130	1.7	20	
Thorium 232	0.506	mg/L	0.0010	101	70	130	0.8	20	
Uranium	0.509	mg/L	0.00032	102	70	130	1.0	20	
Sample ID: MB-18755	Method Blank			Run: SUB-C102823			06/17/08 20:15		
Arsenic	0.0006	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	0.00010	mg/L	4E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	8E-05	mg/L	3E-05						
Sample ID: LCS3-18755	Laboratory Control Sample			Run: SUB-C102823			06/17/08 20:21		
Arsenic	0.537	mg/L	0.0010	107	85	115			
Cadmium	0.268	mg/L	0.010	107	85	115			
Lead	0.563	mg/L	0.050	113	85	115			
Silver	0.0501	mg/L	0.010	100	85	115			
Thorium 232	0.603	mg/L	0.0010	121	85	115			S
Uranium	0.602	mg/L	0.00030	120	85	115			
Sample ID: R08050356-005B	Sample Matrix Spike			Run: SUB-C102823			06/17/08 21:49		
Silver	0.00426	mg/L	0.010	106	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate			Run: SUB-C102823			06/17/08 22:18		
Silver	0.00428	mg/L	0.010	107	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18760		
Sample ID: MB-18760		Method Blank		Run: SUB-C103038		06/23/08 10:40			
Thorium 232	8E-05	mg/L							
Uranium	0.0003	mg/L	2E-05						
Sample ID: LCS1-18760		Laboratory Control Sample		Run: SUB-C103038		06/23/08 10:47			
Uranium	0.0487	mg/L	0.00030	92	80	120			
The LCS was not spiked for thorium.									
Sample ID: C08060097-005KMS4		Post Digestion Spike		Run: SUB-C103038		06/23/08 11:47			
Thorium 232	0.0123	mg/L	0.0010	98	70	130			
Uranium	0.0124	mg/L	0.00030	99	70	130			
Sample ID: C08060097-005KMSD4		Post Digestion Spike Duplicate		Run: SUB-C103038		06/23/08 11:54			
Thorium 232	0.0124	mg/L	0.0010	99	70	130	0.2	20	
Uranium	0.0124	mg/L	0.00030	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: LRB	Method Blank		Run: SUB-C103038			06/22/08 13:02			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C103038			06/22/08 13:09			
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C103038			06/22/08 14:35			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00507	mg/L	0.0010	101	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: R08050419-003C	Post Digestion Spike		Run: SUB-C103038			06/22/08 19:53			
Arsenic	0.0536	mg/L	0.0010	106	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0543	mg/L	0.050	109	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Silver	0.0119	mg/L	0.010	60	70	130			S
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Sample ID: R08050419-003C	Post Digestion Spike Duplicate		Run: SUB-C103038			06/22/08 20:00			
Arsenic	0.0548	mg/L	0.0010	108	70	130	2.2	20	
Cadmium	0.0519	mg/L	0.010	104	70	130	2.3	20	
Copper	0.0510	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0549	mg/L	0.050	110	70	130	1.2	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
Silver	0.0124	mg/L	0.010	62	70	130	4.3	20	S
Thorium 232	0.0571	mg/L	0.0010	114	70	130	1.8	20	
Uranium	0.0567	mg/L	0.00030	113	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: C08060423-001BMS	Sample Matrix Spike			Run: SUB-C103038			06/23/08 02:04		
Arsenic	0.0502	mg/L	0.0010	91	70	130			
Cadmium	0.0433	mg/L	0.0010	87	70	130			
Copper	0.0491	mg/L	0.0010	95	70	130			
Lead	0.0532	mg/L	0.0010	105	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Silver	0.0155	mg/L	0.0010	77	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08060423-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C103038			06/23/08 02:11		
Arsenic	0.0527	mg/L	0.0010	96	70	130	4.9	20	
Cadmium	0.0451	mg/L	0.0010	90	70	130	4.1	20	
Copper	0.0526	mg/L	0.0010	102	70	130	6.9	20	
Lead	0.0559	mg/L	0.0010	110	70	130	4.9	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	20	
Silver	0.0165	mg/L	0.0010	83	70	130	6.4	20	
Thorium 232	0.0588	mg/L	0.0010	117	70	130	6.5	20	
Uranium	0.0583	mg/L	0.00030	116	70	130	5.5	20	
Method: E245.1							Batch: C_B_33012		
Sample ID: B08060960-003CMS	Sample Matrix Spike			Run: SUB-C102832			06/17/08 09:36		
Mercury	0.0019	mg/L	0.0010	90	70	130			
Sample ID: B08060960-003CMSD	Sample Matrix Spike Duplicate			Run: SUB-C102832			06/17/08 09:39		
Mercury	0.0020	mg/L	0.0010	95	70	130	4.7	30	
Sample ID: MB-33012	Method Blank			Run: SUB-C102832			06/17/08 09:25		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33012	Laboratory Fortified Blank			Run: SUB-C102832			06/17/08 09:28		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08060966-003BMS	Sample Matrix Spike			Run: SUB-C102832			06/17/08 11:27		
Mercury	0.0017	mg/L	0.0010	86	70	130			
Sample ID: B08060966-003BMSD	Sample Matrix Spike Duplicate			Run: SUB-C102832			06/17/08 11:29		
Mercury	0.0017	mg/L	0.0010	83	70	130	3.6	30	
Method: E245.1							Analytical Run: SUB-C102832		
Sample ID: QCS	Initial Calibration Verification Standard						06/17/08 09:18		
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35054		
Sample ID: LFB0805282601-1	Laboratory Fortified Blank			Run: DIONEX_080529A			05/28/08 18:36		
Chloride	4.44	mg/L	0.50	89	90	110			S
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: LFB0805282601-4	Laboratory Fortified Blank			Run: DIONEX_080529A			05/28/08 19:25		
Chloride	4.44	mg/L	0.50	89	90	110			S
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R08050356-001CMS	Sample Matrix Spike			Run: DIONEX_080529A			05/28/08 19:58		
Chloride	235	mg/L	5.4	81	80	120			
Fluoride	87.9	mg/L	0.56	81	80	120			
Nitrogen, Nitrate as N	111	mg/L	1.3	84	80	120			
Sulfate	761	mg/L	3.4	78	80	120			S
Sample ID: R08050356-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080529A			05/28/08 20:14		
Chloride	236	mg/L	5.4	82	80	120	0.7	10	
Fluoride	88.6	mg/L	0.56	82	80	120	0.8	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	85	80	120	1.0	10	
Sulfate	771	mg/L	3.4	79	80	120	1.3	10	S
Sample ID: R08050356-005CMS	Sample Matrix Spike			Run: DIONEX_080529A			05/28/08 23:15		
Chloride	4.44	mg/L	0.50	89	80	120			
Fluoride	1.76	mg/L	0.10	83	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Sulfate	13.4	mg/L	1.0	89	80	120			
Sample ID: R08050356-005CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080529A			05/28/08 23:31		
Chloride	4.63	mg/L	0.50	93	80	120	4.2	10	
Fluoride	1.84	mg/L	0.10	87	80	120	4.4	10	
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	80	120	4.0	10	
Sulfate	13.9	mg/L	1.0	93	80	120	4.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35055		
Sample ID: LFB0805292120-1	Laboratory Fortified Blank								
Chloride	4.69	mg/L	0.50	94	90	110			05/29/08 12:14
Sample ID: LFB0805292120-4	Laboratory Fortified Blank								
Chloride	4.87	mg/L	0.50	97	90	110			05/29/08 13:03
Sample ID: R08050352-001BMS	Sample Matrix Spike								
Chloride	90.6	mg/L	2.2	81	80	120			05/29/08 21:16
Sample ID: R08050352-001BMSD	Sample Matrix Spike Duplicate								
Chloride	92.6	mg/L	2.2	83	80	120	2.2	10	05/29/08 21:32
Method: E900.0							Batch: C_GrAB-0466		
Sample ID: MB-GrAB-0466	Method Blank								
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-0.5	pCi/L							U
Sample ID: C08060305-001AMS	Sample Matrix Spike								
Gross Alpha	150	pCi/L	105		70	130			06/27/08 13:26
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	130	pCi/L	97		70	130	8.2	16.6	06/27/08 13:26
Sample ID: UNAT-GrAB-0466	Laboratory Control Sample								
Gross Alpha	130	pCi/L	97		70	130			06/27/08 13:27
Sample ID: Cs137-GrAB-0466	Laboratory Control Sample								
Gross Beta	110	pCi/L	113		70	130			06/27/08 13:26
Sample ID: C08060305-001AMS	Sample Matrix Spike								
Gross Beta	110	pCi/L	120		70	130			06/27/08 13:26
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	110	pCi/L	115		70	130	5.0	15.8	06/27/08 13:27

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R102468		
Sample ID: LCS-R102468	Laboratory Control Sample				Run: SUB-C102468		06/04/08 12:00		
Americium 241	690	pCi/L	20	85	70	130			
Cesium 137	1000	pCi/L	20	73	70	130			
Potassium 40	6700	pCi/L	20	100	70	130			
Sample ID: MB-R102468	Method Blank				Run: SUB-C102468		06/04/08 12:00		
Gross Gamma	ND	pCi/L							U
Sample ID: R08050356-004I	Sample Duplicate				Run: SUB-C102468		06/04/08 12:00		
Gross Gamma	ND	pCi/L	20				0.0	30	U
Method: E903.0							Batch: C_18760		
Sample ID: C08051260-001IMS	Sample Matrix Spike				Run: SUB-C102780		06/17/08 09:14		
Radium 226	34	pCi/L		108	70	130			
Sample ID: C08051260-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C102780		06/17/08 09:14		
Radium 226	32	pCi/L		97	70	130	6.8	21.5	
Sample ID: MB-18760	Method Blank				Run: SUB-C102780		06/17/08 10:48		
Radium 226	-2	pCi/L							U
Sample ID: LCS-18760	Laboratory Control Sample				Run: SUB-C102780		06/17/08 10:48		
Radium 226	17	pCi/L		111	70	130			
Method: E903.0							Batch: C_RA226-2858		
Sample ID: R08050356-005J	Sample Matrix Spike				Run: SUB-C102969		06/19/08 02:32		
Radium 226	17	pCi/L		109	70	130			
Sample ID: R08050356-005J	Sample Matrix Spike Duplicate				Run: SUB-C102969		06/19/08 02:32		
Radium 226	18	pCi/L		112	70	130	3.1	23.6	
Sample ID: MB-RA226-2858	Method Blank				Run: SUB-C102969		06/19/08 02:32		
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-2858	Laboratory Control Sample				Run: SUB-C102969		06/19/08 02:32		
Radium 226	8.4	pCi/L		108	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18760		
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike 22.2	pCi/L	0.20	95	70	130			06/13/08 13:30
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike Duplicate 22.6	pCi/L	0.20	98	70	130	1.8	30	06/13/08 13:30
Sample ID: LCS-18760 Thorium 230	Laboratory Control Sample 51.6	pCi/L	0.20	106	70	130			06/13/08 13:30
Sample ID: MB-18760 Thorium 230	Method Blank ND	pCi/L							06/13/08 13:30 U
Method: E907.0							Batch: C_R103514		
Sample ID: LCS-R103514 Thorium 230	Laboratory Control Sample 7.40	pCi/L	0.20	106	70	130			06/16/08 13:30
Sample ID: C08060096-003HMS Thorium 230	Sample Matrix Spike 12.4	pCi/L	0.20	102	70	130			06/16/08 13:30
Sample ID: C08060096-003HMSD Thorium 230	Sample Matrix Spike Duplicate 11.0	pCi/L	0.20	90	70	130	12	30	06/16/08 13:30
Sample ID: MB-R103514 Thorium 230	Method Blank ND	pCi/L							06/16/08 13:30
Method: E909.0M							Batch: C_18760		
Sample ID: C08051260-002IMS Lead 210	Sample Matrix Spike 3000	pCi/L		127	70	130			06/11/08 06:30
Sample ID: C08051260-002IMSD Lead 210	Sample Matrix Spike Duplicate 2100	pCi/L		89	70	130	35	30	06/11/08 06:30 R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R103520 Lead 210	Method Blank ND	pCi/L							06/11/08 06:30 U
Sample ID: LCS-R103520 Lead 210	Laboratory Control Sample 230	pCi/L		98	70	130			06/11/08 06:30

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R104380		
Sample ID: C08060261-002EMS Lead 210	Sample Matrix Spike 670	pCi/L		114	70	130			07/08/08 11:20
Sample ID: C08060261-002EMSD Lead 210	Sample Matrix Spike Duplicate 730	pCi/L		123	70	130	7.9	30	07/08/08 11:20
Sample ID: MB-R104380 Lead 210	Method Blank 0.1	pCi/L							07/08/08 11:20
Sample ID: LCS-R104380 Lead 210	Laboratory Control Sample 97	pCi/L		82	70	130			07/08/08 11:20
Method: RMO-3008							Batch: C_18760		
Sample ID: C08060130-004FMS Polonium 210	Sample Matrix Spike 51	pCi/L	1.0	117	70	130			06/25/08 17:27
Sample ID: C08060130-004FMDS Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	109	70	130	6.9	30	06/25/08 17:27
Sample ID: LCS-18760 Polonium 210	Laboratory Control Sample 97	pCi/L	1.0	112	70	130			06/25/08 17:27
Sample ID: MB-18760 Polonium 210	Method Blank -0.1	pCi/L							06/25/08 17:27 U
Method: RMO-3008							Batch: C_R103090		
Sample ID: C08060097-005JMS Polonium 210	Sample Matrix Spike 110	pCi/L	1.0	127	70	130			06/17/08 12:00
Sample ID: C08060097-005JMDS Polonium 210	Sample Matrix Spike Duplicate 130	pCi/L	1.0	148	70	130	15	30	06/17/08 12:00 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R103090 Polonium 210	Laboratory Control Sample 49	pCi/L	1.0	112	70	130			06/17/08 12:00
Sample ID: MB-R103090 Polonium 210	Method Blank 0.6	pCi/L							06/17/08 12:00 U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R103750		
Sample ID: R08050356-004K	Sample Matrix Spike				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	180	pCi/L	1.0	109	70	130			
Sample ID: R08050356-004K	Sample Matrix Spike Duplicate				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	170	pCi/L	1.0	101	70	130	8.2	30	
Sample ID: LCS-R103750	Laboratory Control Sample				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	130	pCi/L	1.0	152	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.									
Sample ID: MB-R103750	Method Blank				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESLEC**

Report Mail Address: **RESLEC**

Invoice Address:

Project Name: PWS, Permit, Etc. **POWELL TECH Dewey Burdock**

Contact Name: **POWELL TECH Dewey Burdock**

Phone/Fax: **corp. foreman@reslec.com**

Invoice Contact & Phone:

Sample Origin: **SD**

State: **SD**

Email: **eric@reslec.com**

EPA/State Compliance: Yes No

Sampler: (Please Print) **Eric Kraft**

Special Report/Formats - EIU must be notified prior to sample submittal for the following:

DW GSA POTW/WWTP State: Other:

A2LA EDD/EDT (Electronic Data) Format: LEVEL IV NEIAC

Number of Containers: **AW S V B O**

Sample Type: **AW S V B O**

Air Water Soils/Solids Vegetation Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED				Normal Turnaround (TAT)	PURCHASE ORDER	Quote/Bottle Order:
				As	Per	Deter	Other			
1 Dew Burd CHRO 5	5-22-08	13:00	W					SEE ATTACHED		
2 Dew Burd BVC01	5-22-08	14:00	W					RUSH sample submittal for charges and scheduling - See instruction Page		
3 Dew Burd CHRO 1	5-22-08	14:45	W							
4 Dew Burd BVC04	5-22-08	16:30	W							
5 Dew Burd BLK01	5-22-08	16:50	W							
6 Dew Burd BLK01	5-22-08	16:50	W							
7										
8										
9										
10										

Handwritten notes: "As Per Deter + Potassium Nitrate"

Requester By: **ES** Date/Time: **5/22/08 0910** Signature: **Eric Kraft**

Requested by (print): **Steve Hainland** Date/Time: **5-22-08 9:16** Signature: **Steve Hainland**

Received by Laboratory: _____ Date/Time: _____ Signature: _____

Lab Disposal: _____

Return to Client: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

Receipt Temp: **7.8 °C**

On Ice: Yes No

Shipped by: _____ Cooler ID#: _____

Customer Seal: Y N Inlet: Y N Signature: Y N

Barcode: **80860356-001**



ANALYTICAL SUMMARY REPORT

August 15, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08060315 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060315-001	DewBurd CHR05	06/17/08 10:20	06/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060315-002	DewBurd BVC01	06/17/08 11:05	06/18/08	Aqueous	Same As Above
R08060315-003	DewBurd CHR01	06/17/08 11:38	06/18/08	Aqueous	Same As Above
R08060315-004	DewBurd BVC04	06/17/08 12:20	06/18/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.



If you have any questions regarding these tests results, please call.

Report Approved By:

A handwritten signature in black ink, appearing to read "Linda Larson", written over a horizontal line.

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-001
 Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
 Collection Date: 06/17/08 10:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	28	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	224	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Bicarbonate as HCO3	273	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Calcium	234	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Chloride	337	mg/L	D	5		50	E300.0	06/19/08 17:37/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/19/08 18:26/jmh
Magnesium	84.9	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 11:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 18:26/jmh
Potassium	10	mg/L		1		2	E200.7	07/08/08 18:28/eli-c
Silica	4.7	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Sodium	564	mg/L	D	2		2	E200.7	07/08/08 18:28/eli-c
Sulfate	1180	mg/L	D	3		50	E300.0	06/19/08 17:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3570	umhos/cm		5.0		1	A2510 B	06/19/08 14:37/tb
pH	8.30	s.u.		0.01		1	A4500-H B	06/19/08 11:47/tb
Sodium Adsorption Ratio (SAR)	8.0	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	91	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C	06/18/08 15:36/mb
Solids, Total Suspended TSS @ 105 C	95	mg/L		5		1	A2540 D	06/18/08 15:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:03/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-001
 Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
 Collection Date: 06/17/08 10:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Uranium	0.0139	mg/L		0.0003		1	E200.8	07/17/08 16:03/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:18/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:18/eli-c
METALS - TOTAL								
Aluminum	5.3	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:24/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:24/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:35/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Iron	3.41	mg/L		0.03		2	E200.7	07/08/08 22:35/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:24/eli-c
Manganese	0.53	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:24/eli-c
Uranium	0.0173	mg/L		0.0003		1	E200.8	07/17/08 07:24/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Calcium	254	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Magnesium	92.4	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Potassium	11.7	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Silica	17.6	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Sodium	601	mg/L	D	1		2	E200.7	07/08/08 22:35/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-001
 Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
 Collection Date: 06/17/08 10:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:29/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:04/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.7	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	29.9	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	11.9	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	-1.7	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	6.1	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	10.2	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.48	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	-0.04	pCi/L	U	0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-001
 Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
 Collection Date: 06/17/08 10:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:42/eli-b
DATA QUALITY								
A/C Balance (± 5)	5.94	%				1	A1030 E	07/30/08 00:00/jmh
Anions	38.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	43.5	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2560	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-002
 Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:05
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	156	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Calcium	358	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Chloride	970	mg/L	D	10		100	E300.0	06/20/08 22:59/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	06/19/08 18:59/jmh
Magnesium	124	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 11:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 18:59/jmh
Potassium	8	mg/L		1		2	E200.7	07/08/08 18:32/eli-c
Silica	2.2	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Sodium	856	mg/L	D	2		2	E200.7	07/08/08 18:32/eli-c
Sulfate	1410	mg/L	D	3		50	E300.0	06/19/08 18:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5140	umhos/cm		5.0		1	A2510 B	06/19/08 14:39/tb
pH	8.13	s.u.		0.01		1	A4500-H B	06/19/08 11:50/tb
Sodium Adsorption Ratio (SAR)	9.9	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	59	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	4000	mg/L		5		1	A2540 C	06/18/08 15:38/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	06/18/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:10/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	07/08/08 18:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Manganese	0.73	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-002
 Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:05
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Uranium	0.0092	mg/L		0.0003		1	E200.8	07/17/08 16:10/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:25/eli-c
METALS - TOTAL								
Aluminum	4.3	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:31/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:39/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Iron	3.02	mg/L		0.03		2	E200.7	07/08/08 22:39/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:31/eli-c
Manganese	0.97	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:31/eli-c
Uranium	0.0113	mg/L		0.0003		1	E200.8	07/17/08 07:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Calcium	362	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Magnesium	130	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Potassium	8.8	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Silica	12.9	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Sodium	902	mg/L	D	1		2	E200.7	07/08/08 22:39/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-002
 Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:05
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 14:31/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/22/08 14:51/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 11:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	-0.02	pCi/L	U			1	E903.0 07/19/08 18:40/eli-c
Radium 226 precision (±)	0.06	pCi/L				1	E903.0 07/19/08 18:40/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 07/19/08 18:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	-0.9	pCi/L	U			1	E903.0 07/15/08 14:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0 07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	8.9	pCi/L	U			1	E900.0 07/22/08 12:23/eli-c
Gross Alpha precision (±)	10.9	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Alpha MDC	17.1	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Beta	-11.1	pCi/L	U			1	E900.0 07/22/08 12:23/eli-c
Gross Beta precision (±)	11.6	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Beta MDC	19.8	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1 06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	-0.95	pCi/L	U	0.2		1	E903.0 07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 07/28/08 15:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0 07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 07/28/08 15:32/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-002
 Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:05
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:46/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.51	%				1	A1030 E	07/30/08 00:00/jmh
Anions	59.9	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	65.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	3830	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-003
 Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:38
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	16	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	272	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Bicarbonate as HCO3	332	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Calcium	161	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Chloride	78	mg/L	D	5		50	E300.0	06/19/08 19:15/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	06/19/08 19:31/jmh
Magnesium	65.8	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:02/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 19:31/jmh
Potassium	12	mg/L		1		2	E200.7	07/08/08 18:36/eli-c
Silica	6.1	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Sodium	471	mg/L	D	2		2	E200.7	07/08/08 18:36/eli-c
Sulfate	1090	mg/L	D	3		50	E300.0	06/19/08 19:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2770	umhos/cm		5.0		1	A2510 B	06/19/08 14:41/tb
pH	8.29	s.u.		0.01		1	A4500-H B	06/19/08 11:52/tb
Sodium Adsorption Ratio (SAR)	7.9	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	102	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	06/18/08 15:39/mb
Solids, Total Suspended TSS @ 105 C	110	mg/L		5		1	A2540 D	06/18/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:17/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. Page 9 of 16



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-003
 Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:38
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Uranium	0.0177	mg/L		0.0003		1	E200.8	07/17/08 16:17/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:32/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:32/eli-c
METALS - TOTAL								
Aluminum	5.1	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Arsenic	0.003	mg/L	D	0.002		1	E200.8	07/17/08 07:40/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:44/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Iron	2.99	mg/L		0.03		2	E200.7	07/08/08 22:44/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	07/17/08 07:40/eli-c
Manganese	0.38	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:40/eli-c
Uranium	0.0214	mg/L		0.0003		1	E200.8	07/17/08 07:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Calcium	175	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Magnesium	70.5	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Potassium	13.2	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Silica	18.1	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Sodium	509	mg/L	D	1		2	E200.7	07/08/08 22:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:31/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-003
 Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
 Collection Date: 06/17/08 11:38
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:33/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.9	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	35.3	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	8.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	9.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	15.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	6.2	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	10.0	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.72	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	0.08	pCi/L	U	0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-003
Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
Collection Date: 06/17/08 11:38
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:49/eii-b
DATA QUALITY								
A/C Balance (± 5)	6.05	%				1	A1030 E	07/30/08 00:00/jmh
Anions	30.3	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	34.2	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-004
 Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
 Collection Date: 06/17/08 12:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Calcium	300	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Chloride	739	mg/L	D	10		100	E300.0	06/20/08 23:16/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	06/19/08 20:04/jmh
Magnesium	105	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:05/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 20:04/jmh
Potassium	9	mg/L		1		2	E200.7	07/08/08 18:48/eli-c
Silica	4.1	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Sodium	743	mg/L	D	2		2	E200.7	07/08/08 18:48/eli-c
Sulfate	1090	mg/L	D	7		100	E300.0	06/20/08 23:16/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	514	umhos/cm		5.0		1	A2510 B	06/19/08 14:46/tb
pH	8.14	s.u.		0.01		1	A4500-H B	06/19/08 11:59/tb
Sodium Adsorption Ratio (SAR)	9.4	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	51	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	06/18/08 15:39/mb
Solids, Total Suspended TSS @ 105 C	55	mg/L		5		1	A2540 D	06/18/08 15:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:24/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Manganese	0.28	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-004
 Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
 Collection Date: 06/17/08 12:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Uranium	0.0078	mg/L		0.0003		1	E200.8	07/17/08 16:24/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:38/eli-c
METALS - TOTAL								
Aluminum	3.2	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:46/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:48/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Iron	2.69	mg/L		0.03		2	E200.7	07/08/08 22:48/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:46/eli-c
Manganese	0.44	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:46/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	07/17/08 07:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Calcium	309	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Magnesium	111	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Potassium	9.7	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Silica	12.9	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Sodium	770	mg/L	D	1		2	E200.7	07/08/08 22:48/eli-c

METALS - DISSOLVED - SPECIATED

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-004
 Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
 Collection Date: 06/17/08 12:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 14:35/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/22/08 14:55/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 11:10/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.1	pCi/L	U			1	E903.0 07/20/08 00:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 07/20/08 00:41/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 07/20/08 00:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/17/08 09:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/17/08 09:01/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	-0.7	pCi/L	U			1	E903.0 07/15/08 14:46/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Radium 226 MDC	0.9	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0 07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	3.9	pCi/L	U			1	E900.0 07/22/08 12:23/eli-c
Gross Alpha precision (±)	9.1	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Alpha MDC	14.8	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Beta	-12.4	pCi/L	U			1	E900.0 07/22/08 12:23/eli-c
Gross Beta precision (±)	8.8	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Beta MDC	15.1	pCi/L				1	E900.0 07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1 06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	-0.53	pCi/L	U	0.2		1	E903.0 07/28/08 15:32/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 07/28/08 15:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0 07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 07/28/08 15:32/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060315-004
 Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
 Collection Date: 06/17/08 12:20
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:51/eli-b
DATA QUALITY								
A/C Balance (± 5)	9.39	%				1	A1030 E	07/30/08 00:00/jmh
Anions	46.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	56.2	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	3090	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.12					1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080625A-ALK-SEL-W							
Sample ID: LCS1_080625A Alkalinity, Total as CaCO3	Laboratory Control Sample 964	mg/L	5.0	96	90	110			Run: PH_COND1-R_080625A 06/25/08 09:31
Sample ID: MBLK1_080625A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080625A 06/25/08 09:34
Sample ID: R08060297-006AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 176	mg/L	5.0	100	80	120			Run: PH_COND1-R_080625A 06/25/08 10:19
Sample ID: R08060297-006AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 174	mg/L	5.0	98	80	120	1.1	10	Run: PH_COND1-R_080625A 06/25/08 10:21
Sample ID: R08060319-002DMS Alkalinity, Total as CaCO3	Sample Matrix Spike 392	mg/L	5.0	98	80	120			Run: PH_COND1-R_080625A 06/25/08 10:59
Sample ID: R08060319-002DMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 390	mg/L	5.0	96	80	120	0.5	10	Run: PH_COND1-R_080625A 06/25/08 11:03
Method: A2510 B		Batch: 080619_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080619 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:11
Sample ID: LCS1-1_080619 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080619B 06/19/08 14:13
Sample ID: LCS2-1_080619 Conductivity @ 25 C	Laboratory Control Sample 5020	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:14
Sample ID: MBLK-1_080619 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080619B 06/19/08 14:53
Method: A2540 C		Batch: 080618A-SLDS-TDS-W							
Sample ID: LCS1_080618A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	106	90	110			Run: BAL-4-R_080618B 06/18/08 15:17
Sample ID: MBLK1_080618A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080618B 06/18/08 15:18
Sample ID: R08060315-001CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3000	mg/L	5.0	101	80	120			Run: BAL-4-R_080618B 06/18/08 15:37
Sample ID: R08060315-001CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3000	mg/L	5.0	111	80	120	0.7	10	Run: BAL-4-R_080618B 06/18/08 15:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080618A-SLDS-TSS-W		
Sample ID: LCS1_080618A	Laboratory Control Sample				Run: BAL-4-R_080618A		06/18/08 14:26		
Solids, Total Suspended TSS @ 105 C	170	mg/L	5.0	86	85	115			
Sample ID: MBLK1_080618A	Method Blank				Run: BAL-4-R_080618A		06/18/08 14:27		
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK	Method Blank				Run: SUB-C104484		07/19/08 14:18		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104484		07/19/08 14:20		
Selenium	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104484		07/19/08 14:24		
Selenium	0.051	mg/L	0.0010	102	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104484		07/19/08 14:26		
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	
Method: A3114 B							Batch: C_SE3114-080722B		
Sample ID: MBLK	Method Blank				Run: SUB-C104619		07/22/08 10:52		
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104619		07/22/08 10:55		
Selenium-IV	0.053	mg/L	0.0010	106	90	110			
Sample ID: C08060993-001HMS	Sample Matrix Spike				Run: SUB-C104619		07/22/08 10:59		
Selenium-IV	0.054	mg/L	0.0010	108	85	115			
Sample ID: C08060993-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104619		07/22/08 11:02		
Selenium-IV	0.053	mg/L	0.0010	107	85	115	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080722C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05						
					Run: SUB-C104640				07/22/08 14:38
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.052 mg/L		0.0010	104	90	110			
					Run: SUB-C104640				07/22/08 14:40
Sample ID: C08060993-001HMS Selenium	Sample Matrix Spike 0.053 mg/L		0.0010	104	85	115			
					Run: SUB-C104640				07/22/08 14:45
Sample ID: C08060993-001HMSD Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	102	85	115	1.4	10	
					Run: SUB-C104640				07/22/08 14:47
Method: A3500-Cr B							Batch: 080618-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank 0.007 mg/L		0.005						
					Run: SPEC1_080618B				06/18/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.19 mg/L		0.0050	94	80	120			
					Run: SPEC1_080618B				06/18/08 00:00
Sample ID: R08060315-001E Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.0050	95	80	120			
					Run: SPEC1_080618B				06/18/08 00:00
Sample ID: R08060315-002E Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.0050	97	80	120			
					Run: SPEC1_080618B				06/18/08 00:00
Sample ID: R08060315-003E Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.0050	98	80	120			
					Run: SPEC1_080618B				06/18/08 00:00
Sample ID: R08060315-004E Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.0050	98	80	120			
					Run: SPEC1_080618B				06/18/08 00:00
Method: A4500-H B							Batch: 080619_2_PH-W		
Sample ID: LCS_pH-1_080619 pH	Laboratory Control Sample 6.91 s.u.		0.010	101	98.55	101.45			
					Run: PH_COND2-R_080619A				06/19/08 11:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080619A		06/19/08 10:10
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110	Run: TECHAA2-R_080619A		06/19/08 10:12
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110	Run: TECHAA2-R_080619A		06/19/08 10:22 S
Sample ID: R08060315-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.20	mg/L	0.10	80	80	120	Run: TECHAA2-R_080619A		06/19/08 12:03
Sample ID: R08060315-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.18	mg/L	0.10	72	80	120	10.0	10	06/19/08 12:04 S
Method: A9222 D							Batch: 080618-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml					Run: MEMFILT_080618B		06/18/08 10:55
Sample ID: R08060316-001D Bacteria, Fecal Coliform	Sample Duplicate ND	CFU/100ml	2.0				Run: MEMFILT_080618B	0.0	10 06/18/08 10:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18911		
Sample ID: MB-18911	Method Blank		Run: SUB-C103914			07/08/08 22:15			
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	0.0004	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.02	mg/L	0.005						
Zinc	0.004	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.1	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18911	Laboratory Control Sample		Run: SUB-C103914			07/08/08 22:19			
Aluminum	2.48	mg/L	0.10	99	85	115			
Barium	0.516	mg/L	0.10	103	85	115			
Boron	0.549	mg/L	0.10	103	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.517	mg/L	0.010	103	85	115			
Iron	2.70	mg/L	0.030	108	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.515	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	103	85	115			
Zinc	0.515	mg/L	0.010	102	85	115			
Calcium	26.6	mg/L	1.0	107	85	115			
Magnesium	27.1	mg/L	1.0	108	85	115			
Potassium	25.6	mg/L	1.0	102	85	115			
Silica	5.55	mg/L	0.10	108	85	115			
Sodium	24.8	mg/L	1.0	99	85	115			
Sample ID: C08060996-001D MS3	Sample Matrix Spike		Run: SUB-C103914			07/08/08 23:08			
Aluminum	2.48	mg/L	0.10	99	70	130			
Barium	0.509	mg/L	0.10	100	70	130			
Boron	0.586	mg/L	0.10	102	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18911		
Sample ID: C08060996-001D MS3	Sample Matrix Spike			Run: SUB-C103914			07/08/08 23:08		
Iron	15.9	mg/L	0.030		70	130			A
Manganese	4.23	mg/L	0.010	102	70	130			
Molybdenum	0.506	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Vanadium	0.522	mg/L	0.10	104	70	130			
Zinc	0.618	mg/L	0.010	102	70	130			
Calcium	389	mg/L	1.0		70	130			A
Magnesium	154	mg/L	1.0		70	130			A
Potassium	41.8	mg/L	1.0	101	70	130			
Silica	10.1	mg/L	0.10	115	70	130			
Sodium	115	mg/L	1.1	113	70	130			
Sample ID: C08060996-001D MSD3	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 23:12		
Aluminum	2.52	mg/L	0.10	101	70	130	1.3	20	
Barium	0.515	mg/L	0.10	101	70	130	1.1	20	
Boron	0.585	mg/L	0.10	102	70	130	0.2	20	
Chromium	0.520	mg/L	0.050	104	70	130	1.2	20	
Copper	0.523	mg/L	0.010	102	70	130	1.3	20	
Iron	16.3	mg/L	0.030		70	130	2.4	20	A
Manganese	4.31	mg/L	0.010	105	70	130	2.0	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.4	20	
Nickel	0.510	mg/L	0.050	102	70	130	0.4	20	
Vanadium	0.526	mg/L	0.10	105	70	130	0.7	20	
Zinc	0.624	mg/L	0.010	104	70	130	1.0	20	
Calcium	399	mg/L	1.0		70	130	2.5	20	A
Magnesium	157	mg/L	1.0		70	130	1.8	20	A
Potassium	42.8	mg/L	1.0	105	70	130	2.4	20	
Silica	10.3	mg/L	0.10	119	70	130	2.0	20	
Sodium	117	mg/L	1.1	119	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: MB-080708A	Method Blank		Run: SUB-C103914				07/08/08 13:45		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	0.002	mg/L	0.002						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.010	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080708A	Laboratory Fortified Blank		Run: SUB-C103914				07/08/08 13:49		
Silica	0.39	mg/L	0.10	97	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.0	mg/L	0.10	101	85	125			
Calcium	51	mg/L	0.50	103	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	108	85	125			
Magnesium	53	mg/L	0.50	105	85	125			
Manganese	1.0	mg/L	0.010	103	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	48	mg/L	0.77	95	85	125			
Vanadium	1.1	mg/L	0.10	108	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: R08060315-003A	Sample Matrix Spike		Run: SUB-C103914				07/08/08 18:40		
Aluminum	2.05	mg/L	0.10	103	70	130			
Barium	2.05	mg/L	0.10	98	70	130			
Boron	2.12	mg/L	0.10	98	70	130			
Chromium	2.02	mg/L	0.050	101	70	130			
Iron	2.07	mg/L	0.030	104	70	130			
Manganese	2.02	mg/L	0.010	99	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: R08060315-003A	Sample Matrix Spike			Run: SUB-C103914			07/08/08 18:40		
Nickel	1.97	mg/L	0.050	99	70	130			
Vanadium	2.06	mg/L	0.10	100	70	130			
Zinc	2.01	mg/L	0.010	100	70	130			
Calcium	260	mg/L	1.0	99	70	130			
Magnesium	165	mg/L	1.0	99	70	130			
Potassium	104	mg/L	1.0	92	70	130			
Silica	6.43	mg/L	0.10		70	130			A
Sodium	551	mg/L	1.5		70	130			A
Sample ID: R08060315-003A	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 18:44		
Aluminum	2.13	mg/L	0.10	106	70	130	3.5	20	
Barium	2.08	mg/L	0.10	100	70	130	1.6	20	
Boron	2.21	mg/L	0.10	103	70	130	4.3	20	
Chromium	2.08	mg/L	0.050	104	70	130	3.0	20	
Iron	2.13	mg/L	0.030	106	70	130	2.5	20	
Manganese	2.09	mg/L	0.010	103	70	130	3.3	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	2.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	3.8	20	
Vanadium	2.09	mg/L	0.10	101	70	130	1.4	20	
Zinc	2.08	mg/L	0.010	104	70	130	3.6	20	
Calcium	258	mg/L	1.0	97	70	130	0.6	20	
Magnesium	163	mg/L	1.0	97	70	130	1.4	20	
Potassium	102	mg/L	1.0	90	70	130	1.6	20	
Silica	6.47	mg/L	0.10		70	130	0.7	20	A
Sodium	558	mg/L	1.5		70	130	1.3	20	A
Sample ID: C08070109-003CMS2	Sample Matrix Spike			Run: SUB-C103914			07/08/08 21:02		
Aluminum	4.97	mg/L	0.10	99	70	130			
Barium	4.88	mg/L	0.10	93	70	130			
Boron	5.39	mg/L	0.10	94	70	130			
Chromium	4.90	mg/L	0.050	98	70	130			
Iron	4.95	mg/L	0.030	99	70	130			
Manganese	4.71	mg/L	0.010	94	70	130			
Molybdenum	5.12	mg/L	0.10	101	70	130			
Nickel	4.79	mg/L	0.050	96	70	130			
Vanadium	4.99	mg/L	0.10	99	70	130			
Zinc	5.03	mg/L	0.011	96	70	130			
Calcium	727	mg/L	1.0	98	70	130			
Magnesium	364	mg/L	1.0	97	70	130			
Potassium	290	mg/L	1.0	85	70	130			
Silica	100	mg/L	0.10		70	130			A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: C08070109-003CMS2	Sample Matrix Spike			Run: SUB-C103914			07/08/08 21:02		
Sodium	828	mg/L	3.9	93	70	130			
Sample ID: C08070109-003CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 21:06		
Aluminum	5.03	mg/L	0.10	100	70	130	1.2	20	
Barium	5.05	mg/L	0.10	96	70	130	3.5	20	
Boron	5.53	mg/L	0.10	97	70	130	2.5	20	
Chromium	4.99	mg/L	0.050	99	70	130	1.9	20	
Iron	5.06	mg/L	0.030	101	70	130	2.1	20	
Manganese	4.87	mg/L	0.010	97	70	130	3.4	20	
Molybdenum	5.11	mg/L	0.10	101	70	130	0.1	20	
Nickel	4.88	mg/L	0.050	98	70	130	1.7	20	
Vanadium	5.06	mg/L	0.10	100	70	130	1.4	20	
Zinc	5.16	mg/L	0.011	98	70	130	2.6	20	
Calcium	729	mg/L	1.0	99	70	130	0.4	20	
Magnesium	364	mg/L	1.0	97	70	130	0.1	20	
Potassium	299	mg/L	1.0	89	70	130	3.1	20	
Silica	99.6	mg/L	0.10		70	130	0.6	20	A
Sodium	824	mg/L	3.9	91	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: MB-18911	Method Blank		Run: SUB-C104345			07/17/08 06:17			
Arsenic	0.001	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Mercury	ND	mg/L	6E-06						
Silver	9E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18911	Laboratory Control Sample		Run: SUB-C104345			07/17/08 06:24			
Arsenic	0.523	mg/L	0.0010	104	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.499	mg/L	0.050	100	85	115			
Silver	0.0426	mg/L	0.010	85	85	115			
Thorium 232	0.518	mg/L	0.0010	104	85	115			
Uranium	0.521	mg/L	0.00032	104	85	115			
Sample ID: C08060996-001DMS3	Sample Matrix Spike		Run: SUB-C104345			07/17/08 08:20			
Arsenic	5.26	mg/L	0.0010	105	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Thorium 232	6.11	mg/L	0.0010	122	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Sample ID: C08060996-001DMSD3	Sample Matrix Spike Duplicate		Run: SUB-C104345			07/17/08 08:25			
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Thorium 232	6.22	mg/L	0.0010	124	70	130	1.8	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: LRB	Method Blank			Run: SUB-C104438			07/17/08 11:20		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104438			07/17/08 11:26		
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: R08060315-004A	Post Digestion Spike			Run: SUB-C104438			07/17/08 16:47		
Arsenic	0.0487	mg/L	0.0010	95	70	130			
Cadmium	0.0441	mg/L	0.010	88	70	130			
Copper	0.0468	mg/L	0.010	86	70	130			
Lead	0.0482	mg/L	0.050	96	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Silver	0.0147	mg/L	0.010	74	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0584	mg/L	0.00030	101	70	130			
Sample ID: R08060315-004A	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 16:54		
Arsenic	0.0505	mg/L	0.0010	99	70	130	3.5	20	
Cadmium	0.0441	mg/L	0.010	88	70	130	0.1	20	
Copper	0.0485	mg/L	0.010	90	70	130	3.7	20	
Lead	0.0484	mg/L	0.050	97	70	130	0.0	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	0.8	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.7	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	1.3	20	
Uranium	0.0586	mg/L	0.00030	102	70	130	0.4	20	
Sample ID: C08061333-001CMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Arsenic	0.0486	mg/L	0.0010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: C08061333-001CMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Cadmium	0.0455	mg/L	0.010	91	70	130			
Copper	0.0450	mg/L	0.010	90	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: C08061333-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 20:24		
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Copper	0.0453	mg/L	0.010	90	70	130	0.7	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	
Method: E245.1							Batch: C_B_33204		
Sample ID: MB-33204	Method Blank			Run: SUB-C103539			06/30/08 07:09		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank			Run: SUB-C103539			06/30/08 07:12		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08062269-001DMS	Sample Matrix Spike			Run: SUB-C103539			06/30/08 08:31		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062269-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-C103539			06/30/08 08:33		
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1							Analytical Run: SUB-C103539		
Sample ID: QCS	Initial Calibration Verification Standard						06/30/08 06:57		
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 08/15/08

Project: Edgemont

Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35577		
Sample ID: LFB0806190922-3	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:04		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:20		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060315-001CMS	Sample Matrix Spike			Run: DIONEX_080619A			06/19/08 17:53		
Chloride	570	mg/L	5.4	93	80	120			
Fluoride	93.9	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	1820	mg/L	3.4	85	80	120			
Sample ID: R08060315-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080619A			06/19/08 18:09		
Chloride	564	mg/L	5.4	91	80	120	1.1	10	
Fluoride	90.5	mg/L	0.56	82	80	120	3.7	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	3.6	10	
Sulfate	1810	mg/L	3.4	84	80	120	0.6	10	
Sample ID: R08060316-001CMS	Sample Matrix Spike			Run: DIONEX_080619A			06/19/08 21:10		
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	83	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Sulfate	910	mg/L	3.4	82	80	120			
Sample ID: R08060316-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080619A			06/19/08 21:26		
Chloride	234	mg/L	5.4	85	80	120	1.3	10	
Fluoride	89.7	mg/L	0.56	81	80	120	3.1	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.3	10	
Sulfate	891	mg/L	3.4	80	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35594		
Sample ID: LFB0806204637-3	Laboratory Fortified Blank			Run: DIONEX_080620A			06/20/08 16:58		
Chloride	4.82	mg/L	0.50	96	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: LFB0806204637-4	Laboratory Fortified Blank			Run: DIONEX_080620A			06/20/08 17:15		
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08060318-001DMS	Sample Matrix Spike			Run: DIONEX_080620A			06/21/08 00:21		
Chloride	30.0	mg/L	0.54	87	80	120			
Sulfate	179	mg/L	1.0	76	80	120			S
Sample ID: R08060318-001DMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080620A			06/21/08 00:38		
Chloride	29.5	mg/L	0.54	85	80	120	1.7	10	
Sulfate	179	mg/L	1.0	75	80	120	0.5	10	S
Method: E900.0							Batch: C_GrAB-0482		
Sample ID: MB-GrAB-0482	Method Blank			Run: SUB-C104710			07/22/08 12:23		
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-4	pCi/L							U
Sample ID: UNAT-GrAB-0482	Laboratory Control Sample			Run: SUB-C104710			07/22/08 12:23		
Gross Alpha	160	pCi/L	114	70	130				
Sample ID: Cs137-GrAB-0482	Laboratory Control Sample			Run: SUB-C104710			07/22/08 12:23		
Gross Beta	96	pCi/L	106	70	130				
Sample ID: C08061193-001AMS	Sample Matrix Spike			Run: SUB-C104710			07/23/08 00:55		
Gross Alpha	94	pCi/L	68	70	130				S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08061193-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C104710			07/23/08 00:55		
Gross Alpha	82	pCi/L	60	70	130	13	19		S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08061193-001AMS	Sample Matrix Spike			Run: SUB-C104710			07/23/08 00:55		
Gross Beta	91	pCi/L	97	70	130				
Sample ID: C08061193-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C104710			07/23/08 00:55		
Gross Beta	90	pCi/L	96	70	130	0.8	16.4		

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R103216		
Sample ID: LCS-R103216	Laboratory Control Sample				Run: SUB-C103216		06/20/08 16:37		
Cesium 137	457000	pCi/Filter	20	106	70	130			
Cobalt 60	325000	pCi/Filter	20	102	0	0			S
Sample ID: MB-R103216	Method Blank				Run: SUB-C103216		06/20/08 16:37		
Gross Gamma		pCi/Filter	20						U
Sample ID: R08060315-004I	Sample Duplicate				Run: SUB-C103216		06/20/08 16:37		
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0							Batch: C_18917		
Sample ID: R08060315-004K	Sample Matrix Spike				Run: SUB-C104309		07/15/08 14:46		
Radium 226	160	pCi/L		100	70	130			
Sample ID: R08060315-004K	Sample Matrix Spike Duplicate				Run: SUB-C104309		07/15/08 14:46		
Radium 226	170	pCi/L		110	70	130	9.7	24.6	
Sample ID: LCS-18917	Laboratory Control Sample				Run: SUB-C104309		07/15/08 14:46		
Radium 226	16	pCi/L		112	70	130			
Sample ID: MB-18917	Method Blank				Run: SUB-C104309		07/15/08 16:22		
Radium 226	-2	pCi/L							U
Method: E903.0							Batch: C_RA226-2924		
Sample ID: C08061135-002FMS	Sample Matrix Spike				Run: SUB-C104742		07/20/08 06:42		
Radium 226	12	pCi/L		74	70	130			
Sample ID: C08061135-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C104742		07/20/08 08:12		
Radium 226	11	pCi/L		71	70	130	3.8	26.6	
Sample ID: MB-RA226-2924	Method Blank				Run: SUB-C104742		07/20/08 23:14		
Radium 226	0.009	pCi/L							U
Sample ID: LCS-RA226-2924	Laboratory Control Sample				Run: SUB-C104742		07/21/08 00:45		
Radium 226	8.1	pCi/L		103	70	130			

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18917		
Sample ID: C08060996-001IMS Thorium 230	Sample Matrix Spike 19.7	pCi/L	0.20	85	70	130			07/13/08 18:14
Sample ID: C08060996-001IMSD Thorium 230	Sample Matrix Spike Duplicate 21.7	pCi/L	0.20	96	70	130	9.5	30	07/13/08 18:14
Sample ID: LCS-18917 Thorium 230	Laboratory Control Sample 51.9	pCi/L	0.20	108	70	130			07/13/08 18:14
Sample ID: MB-18917 Thorium 230	Method Blank 0.7	pCi/L							07/13/08 18:14
Method: E907.0							Batch: C_RA-TH-ISO-0565		
Sample ID: LCS-RA-TH-ISO-0565 Thorium 230	Laboratory Control Sample 5.53	pCi/L	0.20	90	70	130			07/17/08 08:51
Sample ID: C08060993-001JMS Thorium 230	Sample Matrix Spike 14.2	pCi/L	0.20	87	70	130			07/17/08 08:59
Sample ID: C08060993-001JMSD Thorium 230	Sample Matrix Spike Duplicate 14.4	pCi/L	0.20	88	70	130	1.7	30	07/17/08 08:59
Sample ID: MB-RA-TH-ISO-0565 Thorium 230	Method Blank 0.01	pCi/L							07/17/08 09:02 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name: PWS, Permit, Etc. Power fed Dewey Burdock		Sample Origin:	EPA/State Compliance:
Report Mail Address:		Contact Name: Cony Foreman e repes.com		State:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address:		Phone/Fax:		Email:	Sampler: (Please Print) Eve-Kawere
Special Report/Formats - ELL must be notified prior to sample submittal for the following:		Purchase Order:		Quote/Bottle Order:	
<input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTM/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC		Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		Shipped by: Cooler Etc: Receipt Temp: <input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Yes <input type="checkbox"/> No 4.4 °C	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date Collection Time		MATRIX	
1 Dew Burd CHRO5 2 Dew Burd CHRO1 BVC01 3 Dew Burd CHRO1 4 Dew Burd BVC04 5 6 7 8 9 10		6/17/08 10:20 6/17/08 11:05 6/17/08 11:38 6/17/08 12:20		W W W W	
Requisitioned by (print): Requested by (print): Date/Time:		Signature: Date/Time:		Received by (print): Date/Time:	
Custody Record MUST be Signed Eve-Kawere 6/17/08 06:30		Cony Foreman 6/17/08 8:50		Matt Stohenberg 6/17/08 8:50	
Sample Disposal: Return to Client:		Lab Disposal:		Date/Time:	
In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.		SEE ATTACHED Normal Turnaround (TAT)		RUSH Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: SW Stream	
LABORATORY USE ONLY		Custody Seal: Y N In tact: Y N Signature Match: Y N		ID: 8080315-01	



ANALYTICAL SUMMARY REPORT

August 20, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060316 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 6/18/2008 for analysis.

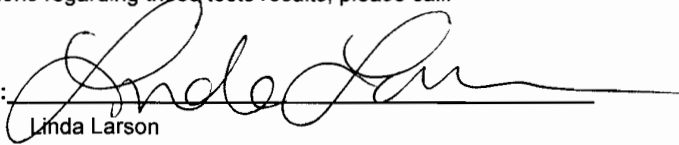
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060316-001	DewBurd SUB04	06/17/08 14:00	06/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended



As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:



Linda Larson

Rapid City - Project Manager



Date: 20-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060316

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08060993

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08060993



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060316-001
 Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
 Collection Date: 06/17/08 14:00
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Calcium	64.8	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Chloride	2	mg/L		1		1	E300.0	06/19/08 21:43/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/19/08 21:43/jmh
Magnesium	27.3	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 21:43/jmh
Potassium	14	mg/L		1		1	E200.7	07/07/08 17:57/eli-c
Silica	3.7	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Sodium	2.9	mg/L	D	0.8		1	E200.7	07/07/08 17:57/eli-c
Sulfate	291	mg/L	D	3		50	E300.0	06/19/08 20:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	692	umhos/cm		5.0		1	A2510 B	06/19/08 14:49/tb
pH	4.89	s.u.		0.01		1	A4500-H B	06/19/08 12:06/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	08/20/08 11:24/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	450	mg/L		5		1	A2540 C	06/18/08 15:40/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	06/18/08 15:06/mb
METALS - DISSOLVED								
Aluminum	0.4	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Barium	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Chromium	ND	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Copper	ND	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/07/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Manganese	5.20	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060316-001
Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
Collection Date: 06/17/08 14:00
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	0.09	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	07/17/08 15:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Zinc	0.07	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:12/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Arsenic	ND	mg/L	D	0.002		10	E200.8	07/17/08 06:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/17/08 06:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:31/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/kl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Iron	0.18	mg/L		0.03		2	E200.7	07/08/08 22:31/eli-c
Lead	ND	mg/L		0.001		10	E200.8	07/17/08 06:58/eli-c
Manganese	5.18	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Nickel	0.10	mg/L		0.05		2	E200.7	07/08/08 22:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:11/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/17/08 06:58/eli-c
Uranium	0.0007	mg/L		0.0003		10	E200.8	07/17/08 06:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Zinc	0.06	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Calcium	61.7	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Magnesium	26.8	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Potassium	14.7	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Silica	3.9	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Sodium	3	mg/L	D	1		2	E200.7	07/08/08 22:31/eli-c

METALS - DISSOLVED - SPECIATED

Report: RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060316-001
 Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
 Collection Date: 06/17/08 14:00
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.005		1	A3114 B 07/19/08 14:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	0.001	mg/L		0.001		1	A3114 B 07/22/08 14:42/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 10:57/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	-2.1	pCi/L	U			1	E909.0M 07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/09/08 18:40/eli-c
Radium 226	3.1	pCi/L				1	E903.0 07/16/08 07:03/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 07/16/08 07:03/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 07/16/08 07:03/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	6.7	pCi/L	U			1	E909.0M 07/14/08 09:30/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M 07/14/08 09:30/eli-c
Lead 210 MDC	19.8	pCi/L				1	E909.0M 07/14/08 09:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.37	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/15/08 14:46/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0 07/15/08 14:46/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0 07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	3.0	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha MDC	1.8	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta	13.0	pCi/L				1	E900.0 07/21/08 22:49/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060316-001
 Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
 Collection Date: 06/17/08 14:00
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta precision (±)	1.8	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Beta MDC	2.7	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-3	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	08/19/08 13:45/eli-c
Polonium 210 precision (±)	0.6	pCi/L				1	RMO-3008	08/19/08 13:45/eli-c
Radium 226	2.7	pCi/L				1	E903.0	08/19/08 13:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/19/08 13:45/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/19/08 13:45/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/19/08 13:45/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 09:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	2.01	%				1	A1030 E	08/20/08 00:00/iki
Anions	6.13	meq/L				1	A1030 E	08/20/08 00:00/iki
Cations	6.39	meq/L				1	A1030 E	08/20/08 00:00/iki
Solids, Total Dissolved Calculated	412	mg/L				1	A1030 E	08/20/08 00:00/iki
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	08/20/08 00:00/iki

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080625A-ALK-SEL-W		
Sample ID: LCS1_080625A Alkalinity, Total as CaCO ₃	Laboratory Control Sample 964	mg/L	5.0	96	90	110			Run: PH_COND1-R_080625A 06/25/08 09:31
Sample ID: MBLK1_080625A Alkalinity, Total as CaCO ₃	Method Blank ND	mg/L	3						Run: PH_COND1-R_080625A 06/25/08 09:34
Sample ID: R08060319-002DMS Alkalinity, Total as CaCO ₃	Sample Matrix Spike 392	mg/L	5.0	98	80	120			Run: PH_COND1-R_080625A 06/25/08 10:59
Sample ID: R08060319-002DMSD Alkalinity, Total as CaCO ₃	Sample Matrix Spike Duplicate 390	mg/L	5.0	96	80	120	0.5	10	Run: PH_COND1-R_080625A 06/25/08 11:03
Method: A2510 B							Batch: 080619_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080619 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:11
Sample ID: LCS1-1_080619 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080619B 06/19/08 14:13
Sample ID: LCS2-1_080619 Conductivity @ 25 C	Laboratory Control Sample 5020	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080619B 06/19/08 14:14
Sample ID: MBLK-1_080619 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080619B 06/19/08 14:53
Method: A2540 C							Batch: 080618A-SLDS-TDS-W		
Sample ID: LCS1_080618A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	106	90	110			Run: BAL-4-R_080618B 06/18/08 15:17
Sample ID: MBLK1_080618A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080618B 06/18/08 15:18
Sample ID: R08060315-001CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3000	mg/L	5.0	101	80	120			Run: BAL-4-R_080618B 06/18/08 15:37
Sample ID: R08060315-001CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3000	mg/L	5.0	111	80	120	0.7	10	Run: BAL-4-R_080618B 06/18/08 15:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080618A-SLDS-TSS-W		
Sample ID: LCS1_080618A	Laboratory Control Sample								
Solids, Total Suspended TSS @ 105 C	170	mg/L	5.0	86	85	115			06/18/08 14:26
Sample ID: MBLK1_080618A	Method Blank								
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						06/18/08 14:27
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						07/19/08 11:18
Sample ID: 288-106-2	Laboratory Control Sample								
Selenium-IV	0.046	mg/L	0.0010	92	90	110			07/19/08 11:21
Sample ID: C08060993-001AMS	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	100	85	115			07/19/08 11:25
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.6	10	07/19/08 11:27
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	6E-05						07/19/08 14:18
Sample ID: 288-106-2	Laboratory Control Sample								
Selenium	0.046	mg/L	0.0010	92	90	110			07/19/08 14:20
Sample ID: C08060993-001AMS	Sample Matrix Spike								
Selenium	0.051	mg/L	0.0010	102	85	115			07/19/08 14:24
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate								
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	07/19/08 14:26

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080722B		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C104619			07/22/08 10:52
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.053 mg/L		0.0010	106	90	110			07/22/08 10:55
Sample ID: R08060316-001H Selenium-IV	Sample Matrix Spike 0.054 mg/L		0.0010	108	85	115			07/22/08 10:59
Sample ID: R08060316-001H Selenium-IV	Sample Matrix Spike Duplicate 0.053 mg/L		0.0010	107	85	115	1.2	10	07/22/08 11:02
Method: A3114 B							Batch: C_SE3114-080722C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C104640			07/22/08 14:38
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.052 mg/L		0.0010	104	90	110			07/22/08 14:40
Sample ID: R08060316-001H Selenium	Sample Matrix Spike 0.053 mg/L		0.0010	104	85	115			07/22/08 14:45
Sample ID: R08060316-001H Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	102	85	115	1.4	10	07/22/08 14:47
Method: A3500-Cr B							Batch: 080618-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank 0.007 mg/L		0.005			Run: SPEC1_080618B			06/18/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.19 mg/L		0.0050	94	80	120			06/18/08 00:00
Sample ID: R08060315-004E Chromium, Hexavalent	Sample Matrix Spike 0.20 mg/L		0.0050	98	80	120			06/18/08 00:00
Sample ID: R08060316-001E Chromium, Hexavalent	Sample Matrix Spike 0.19 mg/L		0.0050	95	80	120			06/18/08 00:00
Method: A4500-H B							Batch: 080619_2_PH-W		
Sample ID: LCS_pH-1_080619 pH	Laboratory Control Sample 6.91 s.u.		0.010	101	98.55	101.45			06/19/08 11:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080619A		06/19/08 10:10
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110	Run: TECHAA2-R_080619A		06/19/08 10:12
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110	Run: TECHAA2-R_080619A		06/19/08 10:22 S
Sample ID: R08060315-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.20	mg/L	0.10	80	80	120	Run: TECHAA2-R_080619A		06/19/08 12:03
Sample ID: R08060315-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.18	mg/L	0.10	72	80	120	Run: TECHAA2-R_080619A	10.0	06/19/08 12:04 10 S
Method: A9222 D							Batch: 080618-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml					Run: MEMFILT_080618B		06/18/08 10:55
Sample ID: R08060316-001D Bacteria, Fecal Coliform	Sample Duplicate ND	CFU/100ml	2.0				Run: MEMFILT_080618B	0.0	06/18/08 10:55 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18911		
Sample ID: MB-18911	Method Blank		Run: SUB-C103914			07/08/08 22:15			
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	0.0004	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.02	mg/L	0.005						
Zinc	0.004	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.1	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18911	Laboratory Control Sample		Run: SUB-C103914			07/08/08 22:19			
Aluminum	2.48	mg/L	0.10	99	85	115			
Barium	0.516	mg/L	0.10	103	85	115			
Boron	0.549	mg/L	0.10	103	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.517	mg/L	0.010	103	85	115			
Iron	2.70	mg/L	0.030	108	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.515	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	103	85	115			
Zinc	0.515	mg/L	0.010	102	85	115			
Calcium	26.6	mg/L	1.0	107	85	115			
Magnesium	27.1	mg/L	1.0	108	85	115			
Potassium	25.6	mg/L	1.0	102	85	115			
Silica	5.55	mg/L	0.10	108	85	115			
Sodium	24.8	mg/L	1.0	99	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike		Run: SUB-C103914			07/08/08 23:08			
Aluminum	2.48	mg/L	0.10	99	70	130			
Barium	0.509	mg/L	0.10	100	70	130			
Boron	0.586	mg/L	0.10	102	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C103914			07/08/08 23:08		
Iron	15.9	mg/L	0.030		70	130			A
Manganese	4.23	mg/L	0.010	102	70	130			
Molybdenum	0.506	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Vanadium	0.522	mg/L	0.10	104	70	130			
Zinc	0.618	mg/L	0.010	102	70	130			
Calcium	389	mg/L	1.0		70	130			A
Magnesium	154	mg/L	1.0		70	130			A
Potassium	41.8	mg/L	1.0	101	70	130			
Silica	10.1	mg/L	0.10	115	70	130			
Sodium	115	mg/L	1.1	113	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 23:12		
Aluminum	2.52	mg/L	0.10	101	70	130	1.3	20	
Barium	0.515	mg/L	0.10	101	70	130	1.1	20	
Boron	0.585	mg/L	0.10	102	70	130	0.2	20	
Chromium	0.520	mg/L	0.050	104	70	130	1.2	20	
Copper	0.523	mg/L	0.010	102	70	130	1.3	20	
Iron	16.3	mg/L	0.030		70	130	2.4	20	A
Manganese	4.31	mg/L	0.010	105	70	130	2.0	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.4	20	
Nickel	0.510	mg/L	0.050	102	70	130	0.4	20	
Vanadium	0.526	mg/L	0.10	105	70	130	0.7	20	
Zinc	0.624	mg/L	0.010	104	70	130	1.0	20	
Calcium	399	mg/L	1.0		70	130	2.5	20	A
Magnesium	157	mg/L	1.0		70	130	1.8	20	A
Potassium	42.8	mg/L	1.0	105	70	130	2.4	20	
Silica	10.3	mg/L	0.10	119	70	130	2.0	20	
Sodium	117	mg/L	1.1	119	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: MB-080707A	Method Blank		Run: SUB-C103815			07/07/08 13:14			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.01	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	0.009	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.02	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080707A	Laboratory Fortified Blank		Run: SUB-C103815			07/07/08 13:18			
Silica	0.39	mg/L	0.10	98	85	125			
Aluminum	0.97	mg/L	0.10	97	85	125			
Barium	1.1	mg/L	0.10	106	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.1	mg/L	0.050	107	85	125			
Copper	1.1	mg/L	0.010	106	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	54	mg/L	0.50	109	85	125			
Manganese	1.1	mg/L	0.010	105	85	125			
Molybdenum	1.0	mg/L	0.10	105	85	125			
Nickel	1.1	mg/L	0.050	106	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	52	mg/L	0.77	104	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.1	mg/L	0.010	106	85	125			
Sample ID: C08061394-001CMS2	Sample Matrix Spike		Run: SUB-C103815			07/07/08 18:14			
Aluminum	2.11	mg/L	0.10	106	70	130			
Barium	2.05	mg/L	0.10	102	70	130			
Boron	2.15	mg/L	0.10	106	70	130			
Chromium	2.14	mg/L	0.050	106	70	130			
Copper	2.13	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: C08061394-001CMS2	Sample Matrix Spike			Run: SUB-C103815			07/07/08 18:14		
Iron	3.75	mg/L	0.030	107	70	130			
Manganese	4.53	mg/L	0.010	99	70	130			
Molybdenum	2.10	mg/L	0.10	105	70	130			
Nickel	2.11	mg/L	0.050	105	70	130			
Vanadium	2.22	mg/L	0.10	108	70	130			
Zinc	2.16	mg/L	0.010	107	70	130			
Calcium	483	mg/L	1.0	90	70	130			
Magnesium	247	mg/L	1.0	106	70	130			
Potassium	108	mg/L	1.0	92	70	130			
Silica	5.99	mg/L	0.10		70	130			A
Sodium	191	mg/L	1.5	102	70	130			
Sample ID: C08061394-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/07/08 18:18		
Aluminum	2.23	mg/L	0.10	111	70	130	5.4	20	
Barium	2.05	mg/L	0.10	102	70	130	0.1	20	
Boron	2.18	mg/L	0.10	107	70	130	1.4	20	
Chromium	2.12	mg/L	0.050	106	70	130	0.8	20	
Copper	2.12	mg/L	0.010	106	70	130	0.7	20	
Iron	3.72	mg/L	0.030	106	70	130	0.8	20	
Manganese	4.58	mg/L	0.010	101	70	130	0.9	20	
Molybdenum	2.10	mg/L	0.10	105	70	130	0.0	20	
Nickel	2.11	mg/L	0.050	106	70	130	0.1	20	
Vanadium	2.14	mg/L	0.10	104	70	130	3.7	20	
Zinc	2.15	mg/L	0.010	107	70	130	0.4	20	
Calcium	497	mg/L	1.0	104	70	130	2.7	20	
Magnesium	249	mg/L	1.0	108	70	130	0.7	20	
Potassium	108	mg/L	1.0	92	70	130	0.2	20	
Silica	6.06	mg/L	0.10		70	130	1.2	20	A
Sodium	194	mg/L	1.5	105	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: MB-18911	Method Blank		Run: SUB-C104345			07/17/08 06:17			
Arsenic	0.001	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	9E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18911	Laboratory Control Sample		Run: SUB-C104345			07/17/08 06:24			
Arsenic	0.523	mg/L	0.0010	104	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.499	mg/L	0.050	100	85	115			
Silver	0.0426	mg/L	0.010	85	85	115			
Thorium 232	0.518	mg/L	0.0010	104	85	115			
Uranium	0.521	mg/L	0.00032	104	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike		Run: SUB-C104345			07/17/08 08:20			
Arsenic	5.26	mg/L	0.0010	105	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Thorium 232	6.11	mg/L	0.0010	122	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate		Run: SUB-C104345			07/17/08 08:25			
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Thorium 232	6.22	mg/L	0.0010	124	70	130	1.8	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: LRB	Method Blank		Run: SUB-C104438				07/17/08 11:20		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104438				07/17/08 11:26		
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08060995-004AMS4	Post Digestion Spike		Run: SUB-C104438				07/17/08 16:47		
Arsenic	0.0487	mg/L	0.0010	95	70	130			
Cadmium	0.0441	mg/L	0.010	88	70	130			
Lead	0.0482	mg/L	0.050	96	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Silver	0.0147	mg/L	0.010	74	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0584	mg/L	0.00030	101	70	130			
Sample ID: C08060995-004AMSD4	Post Digestion Spike Duplicate		Run: SUB-C104438				07/17/08 16:54		
Arsenic	0.0505	mg/L	0.0010	99	70	130	3.5	20	
Cadmium	0.0441	mg/L	0.010	88	70	130	0.1	20	
Lead	0.0484	mg/L	0.050	97	70	130	0.0	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	0.8	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.7	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	1.3	20	
Uranium	0.0586	mg/L	0.00030	102	70	130	0.4	20	
Sample ID: C08061333-001CMS4	Post Digestion Spike		Run: SUB-C104438				07/17/08 20:17		
Arsenic	0.0486	mg/L	0.0010	96	70	130			
Cadmium	0.0455	mg/L	0.010	91	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: C08061333-001CMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: C08061333-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 20:24		
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	
Method: E245.1							Batch: C_B_33204		
Sample ID: MB-33204	Method Blank			Run: SUB-C103539			06/30/08 07:09		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank			Run: SUB-C103539			06/30/08 07:12		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08062269-001DMS	Sample Matrix Spike			Run: SUB-C103539			06/30/08 08:31		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062269-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-C103539			06/30/08 08:33		
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1							Analytical Run: SUB-C103539		
Sample ID: QCS	Initial Calibration Verification Standard						06/30/08 06:57		
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35577		
Sample ID: LFB0806190922-3	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:04		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:20		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060316-001CMS	Sample Matrix Spike			Run: DIONEX_080619A			06/19/08 21:10		
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	83	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Sulfate	910	mg/L	3.4	82	80	120			
Sample ID: R08060316-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080619A			06/19/08 21:26		
Chloride	234	mg/L	5.4	85	80	120	1.3	10	
Fluoride	89.7	mg/L	0.56	81	80	120	3.1	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.3	10	
Sulfate	891	mg/L	3.4	80	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0481		
Sample ID: MB-GrAB-0481	Method Blank				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	-1	pCi/L							U
Gross Beta	-6	pCi/L							U
Sample ID: UNAT-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	140	pCi/L	103	70	130				
Sample ID: Cs137-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	90	pCi/L	103	70	130				
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	145	pCi/L	105	70	130				
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	127	pCi/L	92	70	130	13	18.1		
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	88.7	pCi/L	87	70	130				
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	98.5	pCi/L	97	70	130	11	16.1		
Method: E901.1							Batch: C_R103216		
Sample ID: LCS-R103216	Laboratory Control Sample				Run: SUB-C103216			06/20/08 16:37	
Cesium 137	457000	pCi/Filter	20	106	70	130			
Cobalt 60	325000	pCi/Filter	20	102	70	130			
Sample ID: MB-R103216	Method Blank				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20						U
Sample ID: C08060794-001ADUP	Sample Duplicate				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20				0.0	30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18917		
Sample ID: C08060995-004KMS Radium 226	Sample Matrix Spike 160 pCi/L			100	70	130			07/15/08 14:46
Sample ID: C08060995-004KMSD Radium 226	Sample Matrix Spike Duplicate 170 pCi/L			110	70	130	9.7	24.6	07/15/08 14:46
Sample ID: LCS-18917 Radium 226	Laboratory Control Sample 16 pCi/L			112	70	130			07/15/08 14:46
Sample ID: MB-18917 Radium 226	Method Blank -2 pCi/L								07/15/08 16:22 U
Method: E903.0							Batch: C_RA226-2918		
Sample ID: MB-RA226-2918 Radium 226	Method Blank 0.1 pCi/L								07/16/08 07:03
Sample ID: C08060981-001AMS Radium 226	Sample Matrix Spike 19 pCi/L			109	70	130			07/16/08 07:03
Sample ID: C08060981-001AMSD Radium 226	Sample Matrix Spike Duplicate 19 pCi/L			108	70	130	0.6	21	07/16/08 07:03
Sample ID: LCS-RA226-2918 Radium 226	Laboratory Control Sample 8.2 pCi/L			102	70	130			07/16/08 08:37
Method: E907.0							Batch: C_18917		
Sample ID: R08060335-001I Thorium 230	Sample Matrix Spike 19.7 pCi/L		0.20	85	70	130			07/13/08 18:14
Sample ID: R08060335-001I Thorium 230	Sample Matrix Spike Duplicate 21.7 pCi/L		0.20	96	70	130	9.5	30	07/13/08 18:14
Sample ID: LCS-18917 Thorium 230	Laboratory Control Sample 51.9 pCi/L		0.20	108	70	130			07/13/08 18:14
Sample ID: MB-18917 Thorium 230	Method Blank 0.7 pCi/L								07/13/08 18:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0565		
Sample ID: LCS-RA-TH-ISO-0565	Laboratory Control Sample					Run: SUB-C104883			07/17/08 08:51
Thorium 230	5.53	pCi/L	0.20	90	70	130			
Sample ID: R08060316-001J	Sample Matrix Spike					Run: SUB-C104883			07/17/08 08:59
Thorium 230	14.2	pCi/L	0.20	87	70	130			
Sample ID: R08060316-001J	Sample Matrix Spike Duplicate					Run: SUB-C104883			07/17/08 08:59
Thorium 230	14.4	pCi/L	0.20	88	70	130	1.7	30	
Sample ID: MB-RA-TH-ISO-0565	Method Blank					Run: SUB-C104883			07/17/08 09:02
Thorium 230	0.01	pCi/L							U
Method: E909.0M							Batch: C_18917		
Sample ID: C08060943-002FMS	Sample Matrix Spike					Run: SUB-C105224			07/14/08 09:30
Lead 210	1300	pCi/L		111	70	130			
Sample ID: C08060943-002FMSD	Sample Matrix Spike Duplicate					Run: SUB-C105224			07/14/08 09:30
Lead 210	830	pCi/L		71	70	130	44	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R105224	Method Blank					Run: SUB-C105224			07/14/08 09:30
Lead 210	5	pCi/L							U
Sample ID: LCS-R105224	Laboratory Control Sample					Run: SUB-C105224			07/14/08 09:30
Lead 210	120	pCi/L		95	70	130			
Method: E909.0M							Batch: C_R105675		
Sample ID: C08070067-003AMS	Sample Matrix Spike					Run: SUB-C105675			07/18/08 08:20
Lead 210	640	pCi/L		110	70	130			
Sample ID: C08070067-003AMSD	Sample Matrix Spike Duplicate					Run: SUB-C105675			07/18/08 08:20
Lead 210	540	pCi/L		92	70	130	18	30	
Sample ID: MB-R105675	Method Blank					Run: SUB-C105675			07/18/08 08:20
Lead 210	-2	pCi/L							U
Sample ID: LCS-R105675	Laboratory Control Sample					Run: SUB-C105675			07/18/08 08:20
Lead 210	110	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18917		
Sample ID: C08060943-001FMS Polonium 210	Sample Matrix Spike 29	pCi/L	1.0	128	70	130			08/18/08 17:00
Sample ID: C08060943-001FMSD Polonium 210	Sample Matrix Spike Duplicate 22	pCi/L	1.0	99	70	130	25	30	08/18/08 17:00
Sample ID: MB-R106132 Polonium 210	Method Blank -0.09	pCi/L							08/18/08 17:00 U
Sample ID: LCS-R106132 Polonium 210	Laboratory Control Sample 84	pCi/L	1.0	97	70	130			08/18/08 17:00
Method: RMO-3008							Batch: C_R104442		
Sample ID: C08061021-004EMS Polonium 210	Sample Matrix Spike 65	pCi/L	1.0	73	70	130			07/09/08 18:40
Sample ID: C08061021-004EMS D Polonium 210	Sample Matrix Spike Duplicate 75	pCi/L	1.0	85	70	130	14	30	07/09/08 18:40
Sample ID: LCS-R104442 Polonium 210	Laboratory Control Sample 44	pCi/L	1.0	103	70	130			07/09/08 18:40
Sample ID: MB-R104442 Polonium 210	Method Blank -0.3	pCi/L							07/09/08 18:40 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESORC Report Mail Address:		Project Name, PWS, Permit, Etc: Powell Dey Burdock Contact Name: Cory Foreman Phone/Fax: @resorc.com		Sample Origin: State: SD EPAS/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers: Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 Dew Burdock 5/6/04 2 3 4 5 6 7 8 9 10		Collection Date 6/17/08 Collection Time 14:00 MATRIX W		ANALYSIS REQUESTED As per Quote + Pb 210 + Po 210	
Requested by (print): Eric Keane Date/Time: 6/17/08 08:50		Signature: 		Received by (print): Matt Stokkenberg Date/Time: 6-18-08 8:50	
Requested by (print): Matt Stokkenberg Date/Time: 6/17/08 08:50		Signature: 		Received by (print): Eric Keane Date/Time: 6-18-08 8:50	
Sample Disposal:		Lab Disposal:		Signature: 	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

Shipped by: Cooler Dry:	Receipt Temp: 4.4 °C
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Comments: All SW 5 sub-parameters
Custody Seal: Y N Intact: Y N Signature: Y N Match: Y N	Set 12 608060316-001



ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060347 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060347-001	DewBurd SUB01	06/18/08 12:00	06/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060347-002	DewBurd SUB02	06/18/08 13:05	06/19/08	Aqueous	Same As Above
R08060347-003	DewBurd SUB02	06/18/08 13:10	06/19/08	Aqueous	Same As Above



R08060347-004 DewBurd SUB03 06/18/08 14:15 06/19/08 Aqueous Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060347

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08061205

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08061205



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-001
 Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
 Collection Date: 06/18/08 12:00
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	20		20	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	84	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Bicarbonate as HCO3	102	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Calcium	21.1	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Chloride	5	mg/L		1		5	E300.0	06/20/08 01:33/jmh
Fluoride	0.6	mg/L		0.1		5	E300.0	06/20/08 01:33/jmh
Magnesium	4.4	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Nitrogen, Ammonia as N	1.2	mg/L		0.1		2	A4500-NH3 G	06/19/08 12:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		5	E300.0	06/20/08 01:33/jmh
Potassium	8	mg/L		1		2	E200.7	07/10/08 16:27/eli-c
Silica	7.9	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Sodium	20	mg/L	D	2		2	E200.7	07/10/08 16:27/eli-c
Sulfate	33	mg/L		1		5	E300.0	06/20/08 01:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	250	umhos/cm		5.0		1	A2510 B	06/23/08 10:48/tb
pH	7.07	s.u.		0.01		1	A4500-H B	06/19/08 12:19/tb
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	393	mg/L		5		1	D3977	06/30/08 15:47/mb
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	06/20/08 08:27/mb
Solids, Total Suspended TSS @ 105 C	280	mg/L		5		1	A2540 D	06/19/08 15:38/mb
TDS result confirmed. Very fine suspended sediment.								
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 12:47/eli-c
Iron	0.31	mg/L		0.03		2	E200.7	07/10/08 16:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Manganese	0.24	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-001
Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
Collection Date: 06/18/08 12:00
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	07/23/08 12:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/23/08 12:47/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
METALS - SUSPENDED								
Thorium 232	0.004	mg/L		0.001		1	E200.8	07/28/08 21:58/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	07/28/08 21:58/eli-c
METALS - TOTAL								
Aluminum	52.8	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Arsenic	0.014	mg/L		0.001		1	E200.8	07/18/08 13:19/eli-c
Barium	0.2	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Chromium	0.06	mg/L		0.05		2	E200.7	07/07/08 22:41/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	0.06	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	0.03	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Iron	44.1	mg/L		0.03		2	E200.7	07/07/08 22:41/eli-c
Lead	0.026	mg/L		0.001		1	E200.8	07/18/08 13:19/eli-c
Manganese	0.77	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 22:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Thorium 232	0.012	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	07/18/08 13:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Zinc	0.13	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Calcium	30.2	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Magnesium	15.1	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Potassium	20.9	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Silica	88.1	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Sodium	21	mg/L	D	1		2	E200.7	07/07/08 22:41/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:43/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-001
 Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
 Collection Date: 06/18/08 12:00
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/22/08 14:57/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 11:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	0.7	pCi/L	U			1	E909.0M 07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008 07/09/08 18:40/eli-c
Radium 226	0.5	pCi/L				1	E903.0 07/21/08 20:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/21/08 20:20/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 07/21/08 20:20/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2.1	pCi/L	U			1	E909.0M 07/15/08 07:15/eli-c
Lead 210 precision (±)	8.6	pCi/L				1	E909.0M 07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M 07/15/08 07:15/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.78	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0 07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/16/08 13:32/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0 07/16/08 13:32/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0 07/10/08 13:48/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 07/10/08 13:48/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	16.2	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha MDC	1.7	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta	20.2	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta MDC	2.7	pCi/L				1	E900.0 07/26/08 03:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-001
 Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
 Collection Date: 06/18/08 12:00
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - TOTAL								
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/26/08 18:46/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-1.4	pCi/L	U			1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	07/02/08 09:55/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.86	%				1	A1030 E	08/20/08 00:00/kl
Anions	2.54	meq/L				1	A1030 E	08/20/08 00:00/kl
Cations	2.63	meq/L				1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	164	mg/L				1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	6.05					1	A1030 E	08/20/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-002
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:05
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	96	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Bicarbonate as HCO3	117	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Calcium	609	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Chloride	19	mg/L		1		5	E300.0	06/21/08 01:27/jmh
Fluoride	0.9	mg/L		0.1		1	E300.0	06/20/08 02:05/jmh
Magnesium	204	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/20/08 02:05/jmh
Potassium	20	mg/L		1		2	E200.7	07/10/08 16:43/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Sodium	172	mg/L	D	2		2	E200.7	07/10/08 16:43/eli-c
Sulfate	2310	mg/L	D	3		50	E300.0	06/20/08 01:49/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3540	umhos/cm		5.0		1	A2510 B	06/23/08 10:50/tb
pH	8.08	s.u.		0.01		1	A4500-H B	06/23/08 10:16/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	06/20/08 08:28/mb
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	06/19/08 15:38/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/23/08 12:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 13:03/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 12:54/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	07/10/08 16:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-002
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:05
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 13:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 12:54/eli-c
Uranium	0.175	mg/L		0.0003		1	E200.8	07/23/08 12:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/23/08 12:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/28/08 22:14/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/28/08 22:14/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/18/08 13:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/07/08 22:50/eli-c
Chromium, Hexavalent	0.005	mg/L		0.005		1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Iron	0.18	mg/L		0.03		2	E200.7	07/07/08 22:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/18/08 13:26/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 22:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Uranium	0.190	mg/L		0.0003		1	E200.8	07/18/08 13:26/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Calcium	602	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Magnesium	204	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Potassium	21.1	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Sodium	180	mg/L	D	1		2	E200.7	07/07/08 22:50/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:45/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-002
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:05
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium-VI	0.002	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	0.003	mg/L		0.001		1	A3114 B 07/22/08 15:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 11:22/eli-c
Selenium-VI	0.003	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	-1.0	pCi/L	U			1	E909.0M 07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008 07/09/08 18:40/eli-c
Radium 226	0.7	pCi/L				1	E903.0 07/21/08 23:21/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/21/08 23:21/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 07/21/08 23:21/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.5	pCi/L	U			1	E909.0M 07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1	E909.0M 07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M 07/15/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/16/08 13:32/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0 07/16/08 13:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 07/09/08 19:58/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/09/08 19:58/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	199	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	18.4	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	12.8	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	80.1	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	12.2	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	17.9	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1 06/26/08 18:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-002
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:05
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Gamma precision (±)	20	pCi/L				1 E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	0.5	pCi/L	U			1 E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1 E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1 RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1 RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.2	pCi/L	U			1 E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/20/08 12:33/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.001		1 E245.1	07/02/08 09:57/eli-b
DATA QUALITY							
A/C Balance (± 5)	4.36	%				1 A1030 E	08/20/08 00:00/lkl
Anions	50.6	meq/L				1 A1030 E	08/20/08 00:00/lkl
Cations	55.2	meq/L				1 A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	3390	mg/L				1 A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.12					1 A1030 E	08/20/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-003
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:10
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	98	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Bicarbonate as HCO3	119	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Calcium	620	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Chloride	19	mg/L		1		5	E300.0	06/21/08 01:44/jmh
Fluoride	0.8	mg/L		0.1		1	E300.0	06/20/08 02:38/jmh
Magnesium	211	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/20/08 02:38/jmh
Potassium	20	mg/L		1		2	E200.7	07/10/08 16:47/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Sodium	177	mg/L	D	2		2	E200.7	07/10/08 16:47/eli-c
Sulfate	2410	mg/L	D	3		50	E300.0	06/20/08 02:22/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3640	umhos/cm		5.0		1	A2510 B	06/23/08 10:50/tb
pH	8.06	s.u.		0.01		1	A4500-H B	06/23/08 10:17/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	06/20/08 08:28/mb
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	06/19/08 15:39/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/25/08 13:10/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 13:10/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/25/08 13:10/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	07/10/08 16:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 13:01/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 13:01/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-003
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:10
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Silver	ND	mg/L		0.005	1	E200.8	07/25/08 13:10/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/23/08 13:01/eli-c
Uranium	0.174	mg/L		0.0003	1	E200.8	07/23/08 13:01/eli-c
Vanadium	ND	mg/L		0.1	1	E200.8	07/25/08 13:10/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/10/08 16:47/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001	1	E200.8	07/28/08 22:18/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	07/28/08 22:18/eli-c
METALS - TOTAL							
Aluminum	ND	mg/L		0.1	2	E200.7	07/07/08 22:54/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	07/18/08 13:32/eli-c
Barium	ND	mg/L		0.1	2	E200.7	07/07/08 22:54/eli-c
Boron	0.5	mg/L		0.1	2	E200.7	07/07/08 22:54/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/18/08 13:32/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	07/07/08 22:54/eli-c
Chromium, Hexavalent	0.02	mg/L	B	0.005	1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01	1	Calculation	08/20/08 00:00/kl
Copper	ND	mg/L		0.01	2	E200.7	07/07/08 22:54/eli-c
Iron	0.25	mg/L		0.03	2	E200.7	07/07/08 22:54/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/18/08 13:32/eli-c
Manganese	0.01	mg/L		0.01	2	E200.7	07/07/08 22:54/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	07/07/08 22:54/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	07/07/08 22:54/eli-c
Silver	ND	mg/L		0.005	1	E200.8	07/18/08 13:32/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/18/08 13:32/eli-c
Uranium	0.190	mg/L		0.0003	1	E200.8	07/18/08 13:32/eli-c
Vanadium	0.1	mg/L		0.1	2	E200.7	07/07/08 22:54/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/07/08 22:54/eli-c
Calcium	627	mg/L		0.5	2	E200.7	07/07/08 22:54/eli-c
Magnesium	207	mg/L		0.5	2	E200.7	07/07/08 22:54/eli-c
Potassium	21.5	mg/L		0.5	2	E200.7	07/07/08 22:54/eli-c
Silica	ND	mg/L		0.5	2	E200.7	07/07/08 22:54/eli-c
Sodium	179	mg/L	D	1	2	E200.7	07/07/08 22:54/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.005	1	A3114 B	07/19/08 14:47/eli-c
Selenium-IV	ND	mg/L		0.001	1	A3114 B	07/19/08 11:48/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-003
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:10
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium-VI	0.001	mg/L		0.001		1 A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED							
Selenium	0.001	mg/L		0.001		1 A3114 B	07/22/08 15:06/eli-c
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/22/08 11:24/eli-c
Selenium-VI	0.001	mg/L		0.001		1 A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	-0.9	pCi/L	U			1 E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1 E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1 E909.0M	07/18/08 08:20/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1 RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1 RMO-3008	07/09/08 18:40/eli-c
Radium 226	0.6	pCi/L				1 E903.0	07/22/08 02:22/eli-c
Radium 226 precision (±)	0.1	pCi/L				1 E903.0	07/22/08 02:22/eli-c
Radium 226 MDC	0.1	pCi/L				1 E903.0	07/22/08 02:22/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.5	pCi/L	U			1 E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1 E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1 E909.0M	07/15/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1 RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1 RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.5	pCi/L	U			1 E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	07/16/08 13:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1 E907.0	07/09/08 19:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/09/08 19:58/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	201	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	18.2	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	12.5	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Beta	88.7	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	9.8	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Beta MDC	13.7	pCi/L				1 E900.0	07/26/08 03:41/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1 E901.1	06/26/08 18:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-003
 Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
 Collection Date: 06/18/08 13:10
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Gamma precision (±)	20	pCi/L				E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	-1.4	pCi/L	U			E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.1	pCi/L	U	1.0		RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.51	pCi/L				RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.1	pCi/L	U			E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				E903.0	08/20/08 12:33/eli-c
Thorium 230	0.4	pCi/L		0.2		E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.4	pCi/L				E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.001		E245.1	07/02/08 09:59/eli-b
DATA QUALITY							
A/C Balance (± 5)	3.39	%				A1030 E	08/20/08 00:00/lkl
Anions	52.8	meq/L				A1030 E	08/20/08 00:00/lkl
Cations	56.5	meq/L				A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	3520	mg/L				A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.07					A1030 E	08/20/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-004
 Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
 Collection Date: 06/18/08 14:15
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MICROBIOLOGICAL							
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2	2	A9222 D	06/19/08 11:58/tb
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5	1	A2320 B	06/25/08 11:19/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	06/25/08 11:19/mb
Bicarbonate as HCO3	ND	mg/L		5	1	A2320 B	06/25/08 11:19/mb
Calcium	130	mg/L		0.5	2	E200.7	07/10/08 16:51/eli-c
Chloride	2	mg/L		1	1	E300.0	06/20/08 04:17/jmh
Fluoride	0.4	mg/L		0.1	1	E300.0	06/20/08 04:17/jmh
Magnesium	47.4	mg/L		0.5	2	E200.7	07/10/08 16:51/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1	1	A4500-NH3 G	06/19/08 12:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	06/20/08 04:17/jmh
Potassium	16	mg/L		1	2	E200.7	07/10/08 16:51/eli-c
Silica	2.1	mg/L		0.5	2	E200.7	07/10/08 16:51/eli-c
Sodium	4	mg/L	D	2	2	E200.7	07/10/08 16:51/eli-c
Sulfate	510	mg/L	D	3	50	E300.0	06/20/08 03:28/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	975	umhos/cm		5.0	1	A2510 B	06/23/08 10:51/tb
pH	4.40	s.u.		0.01	1	A4500-H B	06/23/08 10:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10	1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	37	mg/L		5	1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5	1	A2540 C	06/20/08 08:29/mb
Solids, Total Suspended TSS @ 105 C	26	mg/L		5	1	A2540 D	06/19/08 15:39/mb
METALS - DISSOLVED							
Aluminum	0.6	mg/L		0.1	2	E200.7	07/10/08 16:51/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	07/25/08 13:17/eli-c
Barium	ND	mg/L		0.1	2	E200.7	07/10/08 16:51/eli-c
Boron	0.2	mg/L		0.1	2	E200.7	07/10/08 16:51/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/23/08 13:07/eli-c
Chromium	ND	mg/L		0.01	2	E200.7	07/10/08 16:51/eli-c
Copper	ND	mg/L		0.01	1	E200.8	07/25/08 13:17/eli-c
Iron	0.24	mg/L		0.03	2	E200.7	07/10/08 16:51/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/23/08 13:07/eli-c
Manganese	8.44	mg/L		0.01	2	E200.7	07/10/08 16:51/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	07/23/08 13:07/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	07/10/08 16:51/eli-c
Nickel	0.17	mg/L		0.01	2	E200.7	07/10/08 16:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-004
 Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
 Collection Date: 06/18/08 14:15
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Silver	ND	mg/L		0.005	1	E200.8	07/23/08 13:07/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/23/08 13:07/eli-c
Uranium	0.0023	mg/L		0.0003	1	E200.8	07/23/08 13:07/eli-c
Vanadium	ND	mg/L		0.1	1	E200.8	07/25/08 13:17/eli-c
Zinc	0.10	mg/L		0.01	2	E200.7	07/10/08 16:51/eli-c
METALS - SUSPENDED							
Thorium 232	ND	mg/L		0.001	1	E200.8	07/28/08 22:22/eli-c
Uranium	0.0004	mg/L		0.0003	1	E200.8	07/28/08 22:22/eli-c
METALS - TOTAL							
Aluminum	1.2	mg/L		0.1	2	E200.7	07/07/08 22:58/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	07/18/08 13:39/eli-c
Barium	ND	mg/L		0.1	2	E200.7	07/07/08 22:58/eli-c
Boron	0.1	mg/L		0.1	2	E200.7	07/07/08 22:58/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/18/08 13:39/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	07/07/08 22:58/eli-c
Chromium, Hexavalent	0.006	mg/L	B	0.005	1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01	1	Calculation	08/20/08 00:00/kl
Copper	ND	mg/L		0.01	2	E200.7	07/07/08 22:58/eli-c
Iron	1.10	mg/L		0.03	2	E200.7	07/07/08 22:58/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/18/08 13:39/eli-c
Manganese	8.43	mg/L		0.01	2	E200.7	07/07/08 22:58/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	07/07/08 22:58/eli-c
Nickel	0.17	mg/L		0.05	2	E200.7	07/07/08 22:58/eli-c
Silver	ND	mg/L		0.005	1	E200.8	07/18/08 13:39/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/18/08 13:39/eli-c
Uranium	0.0031	mg/L		0.0003	1	E200.8	07/18/08 13:39/eli-c
Vanadium	0.2	mg/L		0.1	2	E200.7	07/07/08 22:58/eli-c
Zinc	0.08	mg/L		0.01	2	E200.7	07/07/08 22:58/eli-c
Calcium	132	mg/L		0.5	2	E200.7	07/07/08 22:58/eli-c
Magnesium	48.6	mg/L		0.5	2	E200.7	07/07/08 22:58/eli-c
Potassium	17.9	mg/L		0.5	2	E200.7	07/07/08 22:58/eli-c
Silica	3.8	mg/L		0.5	2	E200.7	07/07/08 22:58/eli-c
Sodium	5	mg/L	D	1	2	E200.7	07/07/08 22:58/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.005	1	A3114 B	07/19/08 14:50/eli-c
Selenium-IV	ND	mg/L		0.001	1	A3114 B	07/19/08 11:50/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-004
 Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
 Collection Date: 06/18/08 14:15
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:26/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-3.0	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	2.6	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.8	pCi/L	U			1	E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.09	pCi/L	U			1	E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	07/10/08 12:56/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/10/08 12:56/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.9	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	2.6	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta	21.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Gamma	1080	pCi/L		20.0		1	E901.1	06/26/08 18:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060347-004
 Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
 Collection Date: 06/18/08 14:15
 Date Received: 06/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	153	pCi/L					1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	-3.8	pCi/L	U				1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L					1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.5	pCi/L	U	1.0			1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	2.5	pCi/L					1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.001			1	E245.1	07/02/08 10:02/eli-b
DATA QUALITY									
A/C Balance (± 5)	4.34	%					1	A1030 E	08/20/08 00:00/lkl
Anions	10.7	meq/L					1	A1030 E	08/20/08 00:00/lkl
Cations	11.7	meq/L					1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	716	mg/L					1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.15						1	A1030 E	08/20/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080625A-ALK-SEL-W							
Sample ID: LCS1_080625A Alkalinity, Total as CaCO3	Laboratory Control Sample 964	mg/L	5.0	96	90	110			Run: PH_COND1-R_080625A 06/25/08 09:31
Sample ID: MBLK1_080625A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080625A 06/25/08 09:34
Sample ID: R08060319-002DMS Alkalinity, Total as CaCO3	Sample Matrix Spike 392	mg/L	5.0	98	80	120			Run: PH_COND1-R_080625A 06/25/08 10:59
Sample ID: R08060319-002DMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 390	mg/L	5.0	96	80	120	0.5	10	Run: PH_COND1-R_080625A 06/25/08 11:03
Sample ID: R08060403-005CMS Alkalinity, Total as CaCO3	Sample Matrix Spike 112	mg/L	5.0	100	80	120			Run: PH_COND1-R_080625A 06/25/08 12:14
Sample ID: R08060403-005CMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 114	mg/L	5.0	102	80	120	1.8	10	Run: PH_COND1-R_080625A 06/25/08 12:16
Method: A2510 B		Batch: 080623_1_COND-PROBE-W							
Sample ID: LCS1-1_080623 Conductivity @ 25 C	Laboratory Control Sample 151	umhos/cm	5.0	101	90	110			Run: PH_COND2-R_080623B 06/23/08 10:43
Sample ID: LCS2-1_080623 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080623B 06/23/08 10:44
Sample ID: LCS_COND-1_080623 Conductivity @ 25 C	Laboratory Control Sample 1370	umhos/cm	5.0	97	90	110			Run: PH_COND2-R_080623B 06/23/08 10:46
Sample ID: R08060347-004CDUP Conductivity @ 25 C	Sample Duplicate 969	umhos/cm	5.0				0.6	10	Run: PH_COND2-R_080623B 06/23/08 10:57
Sample ID: MBLK-1_080623 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080623B 06/23/08 10:54
Method: A2540 C		Batch: 080620A-SLDS-TDS-W							
Sample ID: R08060331-003BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1400	mg/L	5.0	112	80	120			Run: BAL-4-R_080618B 06/20/08 08:25
Sample ID: R08060331-003BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1400	mg/L	5.0	110	80	120	0.3	10	Run: BAL-4-R_080618B 06/20/08 08:25

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080619A-SLDS-TSS-W		
Sample ID: R08060347-004CDUP	Sample Duplicate				Run: BAL-4-R_080618A			06/19/08 15:40	
Solids, Total Suspended TSS @ 105 C	20	mg/L	5.0				26	20	R
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK	Method Blank				Run: SUB-C104480			07/19/08 11:18	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104480			07/19/08 11:21	
Selenium-IV	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104480			07/19/08 11:25	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104480			07/19/08 11:27	
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.6	10	
Sample ID: R08060452-001E	Sample Matrix Spike				Run: SUB-C104480			07/19/08 11:54	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08060452-001E	Sample Matrix Spike Duplicate				Run: SUB-C104480			07/19/08 11:56	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	2.5	10	
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK	Method Blank				Run: SUB-C104484			07/19/08 14:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104484			07/19/08 14:20	
Selenium	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:24	
Selenium	0.051	mg/L	0.0010	102	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:26	
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	
Sample ID: R08060452-001E	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:54	
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R08060452-001E	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:56	
Selenium	0.052	mg/L	0.0010	105	85	115	1.9	10	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080722B		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05						
						Run: SUB-C104619			07/22/08 10:52
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.053 mg/L		0.0010	106	90	110			
						Run: SUB-C104619			07/22/08 10:55
Sample ID: C08060993-001HMS Selenium-IV	Sample Matrix Spike 0.054 mg/L		0.0010	108	85	115			
						Run: SUB-C104619			07/22/08 10:59
Sample ID: C08060993-001HMSD Selenium-IV	Sample Matrix Spike Duplicate 0.053 mg/L		0.0010	107	85	115	1.2	10	
						Run: SUB-C104619			07/22/08 11:02
Sample ID: C08061335-001HMS Selenium-IV	Sample Matrix Spike 0.055 mg/L		0.0010	110	85	115			
						Run: SUB-C104619			07/22/08 11:32
Sample ID: C08061335-001HMSD Selenium-IV	Sample Matrix Spike Duplicate 0.054 mg/L		0.0010	108	85	115	1.5	10	
						Run: SUB-C104619			07/22/08 11:34
Method: A3114 B							Batch: C_SE3114-080722C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05						
						Run: SUB-C104640			07/22/08 14:38
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.052 mg/L		0.0010	104	90	110			
						Run: SUB-C104640			07/22/08 14:40
Sample ID: C08060993-001HMS Selenium	Sample Matrix Spike 0.053 mg/L		0.0010	104	85	115			
						Run: SUB-C104640			07/22/08 14:45
Sample ID: C08060993-001HMSD Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	102	85	115	1.4	10	
						Run: SUB-C104640			07/22/08 14:47
Sample ID: C08061335-001HMS Selenium	Sample Matrix Spike 0.050 mg/L		0.0010	101	85	115			
						Run: SUB-C104640			07/22/08 15:12
Sample ID: C08061335-001HMSD Selenium	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	101	85	115	0.5	10	
						Run: SUB-C104640			07/22/08 15:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080619-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank 0.009	mg/L	0.005						
						Run: SPEC1_080619A			06/19/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.21	mg/L	0.0050	101	80	120			06/19/08 00:00
						Run: SPEC1_080619A			06/19/08 00:00
Sample ID: R08060347-001E Chromium, Hexavalent	Sample Matrix Spike 1.8	mg/L	0.050	92	80	120			06/19/08 00:00
						Run: SPEC1_080619A			06/19/08 00:00
Sample ID: R08060347-002E Chromium, Hexavalent	Sample Matrix Spike 0.20	mg/L	0.0050	96	80	120			06/19/08 00:00
						Run: SPEC1_080619A			06/19/08 00:00
Sample ID: R08060347-003E Chromium, Hexavalent	Sample Matrix Spike 0.22	mg/L	0.0050	101	80	120			06/19/08 00:00
						Run: SPEC1_080619A			06/19/08 00:00
Sample ID: R08060347-004E Chromium, Hexavalent	Sample Matrix Spike 0.17	mg/L	0.0050	82	80	120			06/19/08 00:00
						Run: SPEC1_080619A			06/19/08 00:00
Method: A4500-H B							Batch: 080619_2_PH-W		
Sample ID: LCS_pH-1_080619 pH	Laboratory Control Sample 6.91	s.u.	0.010	101	98.55	101.45			06/19/08 11:37
						Run: PH_COND2-R_080619A			06/19/08 11:37
Sample ID: R08060347-001CDUP pH	Sample Duplicate 7.06	s.u.	0.010				0.1	1.25	06/19/08 12:21
						Run: PH_COND2-R_080619A			06/19/08 12:21
Method: A4500-H B							Batch: 080623_1_PH-W		
Sample ID: LCS_pH-1_080623 pH	Laboratory Control Sample 6.90	s.u.	0.010	101	98.55	101.45			06/23/08 10:14
						Run: PH_COND2-R_080623A			06/23/08 10:14
Sample ID: R08060364-003ADUP pH	Sample Duplicate 7.28	s.u.	0.010				0.1	1.25	06/23/08 10:25
						Run: PH_COND2-R_080623A			06/23/08 10:25

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080619A		06/19/08 10:10	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			
						Run: TECHAA2-R_080619A		06/19/08 10:12	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110			S
						Run: TECHAA2-R_080619A		06/19/08 10:22	
Sample ID: R08060347-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.20	mg/L	0.10	81	80	120			
						Run: TECHAA2-R_080619A		06/19/08 12:31	
Sample ID: R08060347-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.22	mg/L	0.10	89	80	120	9.9	10	
						Run: TECHAA2-R_080619A		06/19/08 12:32	
Method: A9222 D							Batch: 080619-BCT-FCB-W-MF		
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml							
						Run: MEMFILT_080619A		06/19/08 11:58	
Sample ID: R08060347-004D Bacteria, Fecal Coliform	Sample Duplicate 2.0	CFU/100ml	2.0				200	10	R
						Run: MEMFILT_080619A		06/19/08 11:58	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18951		
Sample ID: MB-18951	Method Blank		Run: SUB-C103815			07/07/08 22:33			
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.03	mg/L	0.005						
Zinc	0.003	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.3	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18951	Laboratory Control Sample		Run: SUB-C103815			07/07/08 22:37			
Aluminum	2.47	mg/L	0.10	99	85	115			
Barium	0.502	mg/L	0.10	100	85	115			
Boron	0.512	mg/L	0.10	102	85	115			
Chromium	0.506	mg/L	0.050	101	85	115			
Copper	0.504	mg/L	0.010	101	85	115			
Iron	2.69	mg/L	0.030	108	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Vanadium	0.515	mg/L	0.10	98	85	115			
Zinc	0.499	mg/L	0.010	99	85	115			
Calcium	26.1	mg/L	1.0	104	85	115			
Magnesium	26.3	mg/L	1.0	105	85	115			
Potassium	26.0	mg/L	1.0	104	85	115			
Silica	6.03	mg/L	0.10	115	85	115			
Sodium	25.4	mg/L	1.0	102	85	115			
Sample ID: R08060347-004B	Sample Matrix Spike		Run: SUB-C103815			07/07/08 23:02			
Aluminum	4.86	mg/L	0.10	146	70	130			S
Barium	0.543	mg/L	0.10	101	70	130			
Boron	0.605	mg/L	0.10	100	70	130			
Chromium	0.508	mg/L	0.050	102	70	130			
Copper	0.506	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18951		
Sample ID: R08060347-004B	Sample Matrix Spike			Run: SUB-C103815			07/07/08 23:02		
Iron	3.69	mg/L	0.030	104	70	130			
Manganese	10.8	mg/L	0.010	93	70	130			
Molybdenum	0.487	mg/L	0.10	97	70	130			
Nickel	0.680	mg/L	0.050	102	70	130			
Vanadium	0.722	mg/L	0.10	109	70	130			
Zinc	0.574	mg/L	0.010	99	70	130			
Calcium	157	mg/L	1.0		70	130			A
Magnesium	73.4	mg/L	1.0	99	70	130			
Potassium	44.7	mg/L	1.0	107	70	130			
Silica	11.6	mg/L	0.10	156	70	130			S
Sodium	28.8	mg/L	1.1	97	70	130			
Sample ID: R08060347-004B	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/07/08 23:06		
Aluminum	4.91	mg/L	0.10	148	70	130	1.0	20	S
Barium	0.555	mg/L	0.10	103	70	130	2.1	20	
Boron	0.618	mg/L	0.10	102	70	130	2.2	20	
Chromium	0.519	mg/L	0.050	104	70	130	2.1	20	
Copper	0.525	mg/L	0.010	105	70	130	3.7	20	
Iron	3.83	mg/L	0.030	109	70	130	3.6	20	
Manganese	10.9	mg/L	0.010	99	70	130	1.3	20	
Molybdenum	0.519	mg/L	0.10	104	70	130	6.4	20	
Nickel	0.692	mg/L	0.050	104	70	130	1.7	20	
Vanadium	0.681	mg/L	0.10	101	70	130	5.8	20	
Zinc	0.595	mg/L	0.010	103	70	130	3.6	20	
Calcium	158	mg/L	1.0		70	130	0.9	20	A
Magnesium	74.6	mg/L	1.0	104	70	130	1.5	20	
Potassium	44.4	mg/L	1.0	106	70	130	0.5	20	
Silica	11.9	mg/L	0.10	162	70	130	2.5	20	S
Sodium	29.1	mg/L	1.1	98	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual		
Method: E200.7							Batch: C_R104056				
Sample ID: MB-080710A	Method Blank		Run: SUB-C104056			07/10/08 15:51					
Silica	0.04	mg/L	0.02								
Aluminum	0.009	mg/L	0.004								
Barium	0.02	mg/L	0.006								
Boron	0.03	mg/L	0.008								
Calcium	ND	mg/L	0.1								
Chromium	ND	mg/L	0.002								
Iron	ND	mg/L	0.005								
Magnesium	ND	mg/L	0.04								
Manganese	ND	mg/L	0.0003								
Molybdenum	0.003	mg/L	0.003								
Nickel	ND	mg/L	0.004								
Potassium	ND	mg/L	0.02								
Sodium	ND	mg/L	0.8								
Zinc	ND	mg/L	0.002								
Sample ID: LFB-080710A							Laboratory Fortified Blank			Run: SUB-C104056	07/10/08 15:55
Silica	0.46	mg/L	0.10	105	85	125					
Aluminum	1.0	mg/L	0.10	101	85	125					
Barium	1.0	mg/L	0.10	100	85	125					
Boron	1.1	mg/L	0.10	105	85	125					
Calcium	54	mg/L	0.50	108	85	125					
Chromium	1.0	mg/L	0.050	104	85	125					
Iron	1.1	mg/L	0.030	112	85	125					
Magnesium	54	mg/L	0.50	108	85	125					
Manganese	1.0	mg/L	0.010	102	85	125					
Molybdenum	1.0	mg/L	0.10	102	85	125					
Nickel	1.0	mg/L	0.050	102	85	125					
Potassium	46	mg/L	0.50	93	85	125					
Sodium	51	mg/L	0.77	101	85	125					
Zinc	1.0	mg/L	0.010	104	85	125					
Sample ID: C08061168-012BMS2							Sample Matrix Spike			Run: SUB-C104056	07/10/08 16:03
Aluminum	4.98	mg/L	0.10	99	70	130					
Barium	5.03	mg/L	0.10	101	70	130					
Boron	6.39	mg/L	0.10	102	70	130					
Chromium	5.14	mg/L	0.050	103	70	130					
Iron	5.48	mg/L	0.030	110	70	130					
Manganese	5.13	mg/L	0.010	103	70	130					
Molybdenum	5.11	mg/L	0.10	101	70	130					
Nickel	5.10	mg/L	0.050	102	70	130					
Zinc	5.23	mg/L	0.011	103	70	130					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: C08061168-012BMS2	Sample Matrix Spike			Run: SUB-C104056			07/10/08 16:03		
Calcium	306	mg/L	1.0	104	70	130			
Magnesium	272	mg/L	1.0	105	70	130			
Potassium	226	mg/L	1.0	89	70	130			
Silica	11.1	mg/L	0.10		70	130			A
Sodium	932	mg/L	3.9	93	70	130			
Sample ID: C08061168-012BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104056			07/10/08 16:07		
Aluminum	4.78	mg/L	0.10	95	70	130	4.1	20	
Barium	4.99	mg/L	0.10	100	70	130	0.9	20	
Boron	6.39	mg/L	0.10	102	70	130	0.0	20	
Chromium	5.09	mg/L	0.050	102	70	130	1.0	20	
Iron	5.37	mg/L	0.030	107	70	130	2.0	20	
Manganese	5.07	mg/L	0.010	101	70	130	1.1	20	
Molybdenum	5.08	mg/L	0.10	101	70	130	0.4	20	
Nickel	5.06	mg/L	0.050	101	70	130	0.7	20	
Zinc	5.15	mg/L	0.011	102	70	130	1.6	20	
Calcium	304	mg/L	1.0	103	70	130	0.5	20	
Magnesium	274	mg/L	1.0	106	70	130	0.6	20	
Potassium	229	mg/L	1.0	91	70	130	1.2	20	
Silica	11.0	mg/L	0.10		70	130	0.3	20	A
Sodium	939	mg/L	3.9	96	70	130	0.7	20	
Sample ID: C08061234-001BMS2	Sample Matrix Spike			Run: SUB-C104056			07/10/08 17:08		
Aluminum	2.18	mg/L	0.10	99	70	130			
Barium	2.06	mg/L	0.10	101	70	130			
Boron	4.65	mg/L	0.10	103	70	130			
Chromium	2.07	mg/L	0.050	104	70	130			
Iron	2.21	mg/L	0.030	108	70	130			
Manganese	2.06	mg/L	0.010	103	70	130			
Molybdenum	2.02	mg/L	0.10	101	70	130			
Nickel	2.03	mg/L	0.050	102	70	130			
Zinc	2.08	mg/L	0.010	104	70	130			
Calcium	107	mg/L	1.0	104	70	130			
Magnesium	105	mg/L	1.0	105	70	130			
Potassium	89.8	mg/L	1.0	87	70	130			
Silica	23.6	mg/L	0.10		70	130			A
Sodium	774	mg/L	1.5		70	130			A
Sample ID: C08061234-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104056			07/10/08 17:12		
Aluminum	2.20	mg/L	0.10	100	70	130	1.0	20	
Barium	2.07	mg/L	0.10	102	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: C08061234-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104056			07/10/08 17:12		
Boron	4.66	mg/L	0.10	103	70	130	0.1	20	
Chromium	2.08	mg/L	0.050	104	70	130	0.4	20	
Iron	2.21	mg/L	0.030	108	70	130	0.1	20	
Manganese	2.07	mg/L	0.010	103	70	130	0.5	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	1.1	20	
Nickel	2.04	mg/L	0.050	102	70	130	0.3	20	
Zinc	2.10	mg/L	0.010	105	70	130	0.8	20	
Calcium	107	mg/L	1.0	104	70	130	0.4	20	
Magnesium	106	mg/L	1.0	106	70	130	1.0	20	
Potassium	91.0	mg/L	1.0	88	70	130	1.3	20	
Silica	23.5	mg/L	0.10		70	130	0.4	20	A
Sodium	780	mg/L	1.5		70	130	0.7	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18951		
Sample ID: MB-18951	Method Blank				Run: SUB-C104503		07/18/08 13:05		
Arsenic	0.0005	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	ND	mg/L	4E-05						
Thorium 232	0.0004	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18951	Laboratory Control Sample				Run: SUB-C104503		07/18/08 13:12		
Arsenic	0.508	mg/L	0.0010	102	85	115			
Cadmium	0.258	mg/L	0.010	103	85	115			
Lead	0.523	mg/L	0.050	105	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thorium 232	0.521	mg/L	0.0010	104	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Sample ID: R08060347-004B	Sample Matrix Spike				Run: SUB-C104503		07/18/08 14:13		
Arsenic	0.548	mg/L	0.0010	109	70	130			
Cadmium	0.264	mg/L	0.010	105	70	130			
Lead	0.570	mg/L	0.050	114	70	130			
Silver	0.0515	mg/L	0.010	103	70	130			
Thorium 232	0.635	mg/L	0.0010	127	70	130			
Uranium	0.636	mg/L	0.00030	127	70	130			
Sample ID: R08060347-004B	Sample Matrix Spike Duplicate				Run: SUB-C104503		07/18/08 14:20		
Arsenic	0.530	mg/L	0.0010	106	70	130	3.2	20	
Cadmium	0.255	mg/L	0.010	101	70	130	3.4	20	
Lead	0.549	mg/L	0.050	110	70	130	3.8	20	
Silver	0.0497	mg/L	0.010	99	70	130	3.6	20	
Thorium 232	0.609	mg/L	0.0010	122	70	130	4.2	20	
Uranium	0.604	mg/L	0.00030	120	70	130	5.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: LRB	Method Blank		Run: SUB-C104758				07/23/08 12:27		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	ND	mg/L	1E-05						
Silver	0.0007	mg/L	7E-06						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104758				07/23/08 12:34		
Aluminum	0.0509	mg/L	0.0010	102	85	115			
Arsenic	0.0497	mg/L	0.0010	99	85	115			
Cadmium	0.0506	mg/L	0.0010	101	85	115			
Copper	0.0512	mg/L	0.0010	102	85	115			
Lead	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	95	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Sample ID: C08061324-001KMS4	Post Digestion Spike		Run: SUB-C104758				07/23/08 14:14		
Aluminum	0.0538	mg/L	0.10	106	70	130			
Arsenic	0.0504	mg/L	0.0010	101	70	130			
Cadmium	0.0485	mg/L	0.010	97	70	130			
Copper	0.0498	mg/L	0.010	98	70	130			
Lead	0.0486	mg/L	0.050	97	70	130			
Mercury	0.00508	mg/L	0.0010	101	70	130			
Silver	0.0115	mg/L	0.010	58	70	130			S
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.276	mg/L	0.00030		70	130			A
Vanadium	0.0483	mg/L	0.10	97	70	130			
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate		Run: SUB-C104758				07/23/08 14:21		
Aluminum	0.0538	mg/L	0.10	106	70	130	0.0	20	
Arsenic	0.0526	mg/L	0.0010	105	70	130	4.3	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	4.0	20	
Copper	0.0520	mg/L	0.010	102	70	130	4.2	20	
Lead	0.0498	mg/L	0.050	100	70	130	0.0	20	
Mercury	0.00545	mg/L	0.0010	109	70	130	7.1	20	
Silver	0.00980	mg/L	0.010	49	70	130	0.0	20	S

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 14:21		
Thorium 232	0.0501	mg/L	0.0010	100	70	130	3.6	20	
Uranium	0.276	mg/L	0.00030		70	130	0.2	20	A
Vanadium	0.0505	mg/L	0.10	101	70	130	0.0	20	
Method: E200.8							Batch: C_R104854		
Sample ID: LRB	Method Blank			Run: SUB-C104854			07/25/08 12:43		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Silver	ND	mg/L	3E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104854			07/25/08 12:50		
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Sample ID: C08070230-001KMS4	Post Digestion Spike			Run: SUB-C104854			07/25/08 14:31		
Arsenic	0.0503	mg/L	0.0010	98	70	130			
Cadmium	0.0486	mg/L	0.010	97	70	130			
Copper	0.0462	mg/L	0.010	91	70	130			
Silver	0.0148	mg/L	0.010	74	70	130			
Vanadium	0.0486	mg/L	0.10	97	70	130			
Sample ID: C08070230-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104854			07/25/08 14:38		
Arsenic	0.0507	mg/L	0.0010	99	70	130	1.0	20	
Cadmium	0.0483	mg/L	0.010	97	70	130	0.7	20	
Copper	0.0463	mg/L	0.010	91	70	130	0.2	20	
Silver	0.0128	mg/L	0.010	64	70	130	15	20	S
Vanadium	0.0479	mg/L	0.10	95	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_33287		
Sample ID: MB-33287	Method Blank					Run: SUB-C103668			07/02/08 09:04
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33287	Laboratory Fortified Blank					Run: SUB-C103668			07/02/08 09:08
Mercury	0.0021	mg/L	0.0010	107	85	115			
Sample ID: B08062811-001HMS	Sample Matrix Spike					Run: SUB-C103668			07/02/08 09:48
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: B08062811-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-C103668			07/02/08 09:50
Mercury	0.0019	mg/L	0.0010	95	70	130	3.8	30	
Method: E245.1							Analytical Run: SUB-C103668		
Sample ID: QCS	Initial Calibration Verification Standard								07/02/08 08:49
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35577		
Sample ID: LFB0806190922-3	Laboratory Fortified Blank								06/19/08 17:04
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank								06/19/08 17:20
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060335-001AMS	Sample Matrix Spike								06/20/08 00:43
Chloride	244	mg/L	5.4	87	80	120			
Fluoride	93.4	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120			
Sulfate	1890	mg/L	3.4	87	80	120			
Sample ID: R08060335-001AMSD	Sample Matrix Spike Duplicate								06/20/08 01:00
Chloride	240	mg/L	5.4	85	80	120	2.0	10	
Fluoride	91.0	mg/L	0.56	83	80	120	2.6	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	2.4	10	
Sulfate	1870	mg/L	3.4	85	80	120	0.9	10	
Sample ID: R08060347-004CMS	Sample Matrix Spike								06/20/08 03:44
Chloride	240	mg/L	5.4	88	80	120			
Fluoride	94.1	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Sulfate	1140	mg/L	3.4	84	80	120			
Sample ID: R08060347-004CMSD	Sample Matrix Spike Duplicate								06/20/08 04:00
Chloride	233	mg/L	5.4	85	80	120	3.0	10	
Fluoride	91.6	mg/L	0.56	84	80	120	2.7	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	2.9	10	
Sulfate	1130	mg/L	3.4	82	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35594		
Sample ID: LFB0806204637-3	Laboratory Fortified Blank								Run: DIONEX_080620A 06/20/08 16:58
Chloride	4.82	mg/L	0.50	96	90	110			
Sample ID: LFB0806204637-4	Laboratory Fortified Blank								Run: DIONEX_080620A 06/20/08 17:15
Chloride	4.65	mg/L	0.50	93	90	110			
Sample ID: R08060318-001DMS	Sample Matrix Spike								Run: DIONEX_080620A 06/21/08 00:21
Chloride	30.0	mg/L	0.54	87	80	120			
Sample ID: R08060318-001DMSD	Sample Matrix Spike Duplicate								Run: DIONEX_080620A 06/21/08 00:38
Chloride	29.5	mg/L	0.54	85	80	120	1.7	10	
Method: E900.0							Batch: C_GrAB-0485		
Sample ID: MB-GrAB-0485	Method Blank								Run: SUB-C104921 07/26/08 03:40
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0485	Laboratory Control Sample								Run: SUB-C104921 07/26/08 03:40
Gross Alpha	120	pCi/L		87	70	130			
Sample ID: Cs137-GrAB-0485	Laboratory Control Sample								Run: SUB-C104921 07/26/08 03:41
Gross Beta	100	pCi/L		108	70	130			
Sample ID: R08060347-002I	Sample Duplicate								Run: SUB-C104921 07/26/08 03:41
Gross Alpha	196	pCi/L					1.9	28.4	
Gross Beta	75.0	pCi/L					6.6	41.2	
Sample ID: C08061318-001DMS	Sample Matrix Spike								Run: SUB-C104921 07/26/08 21:24
Gross Alpha	168	pCi/L		119	70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-C104921 07/26/08 21:24
Gross Alpha	148	pCi/L		105	70	130	12	16.3	
Sample ID: C08061318-001DMS	Sample Matrix Spike								Run: SUB-C104921 07/26/08 21:25
Gross Beta	95.8	pCi/L		100	70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-C104921 07/26/08 21:25
Gross Beta	98.1	pCi/L		102	70	130	2.3	16	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R103364		
Sample ID: LCS-R103364	Laboratory Control Sample								
Cesium 137	468000	pCi/L	20	107	70	130			
Cobalt 60	330000	pCi/L	20	102	70	130			
Sample ID: MB-R103364	Method Blank								
Gross Gamma	ND	pCi/L							
Sample ID: R08060347-004I	Sample Duplicate								
Gross Gamma	820	pCi/L	20				27	30	
Method: E903.0							Batch: C_R104614		
Sample ID: LCS-18976	Laboratory Control Sample								
Radium 226	80	pCi/L		113	70	130			
Sample ID: MB-18976	Method Blank								
Radium 226	-2	pCi/L							U
Sample ID: C08070075-016BMS	Sample Matrix Spike								
Radium 226	0.0019	uCi/kg		119	70	130			
Sample ID: C08070075-016BMSD	Sample Matrix Spike Duplicate								
Radium 226	0.0018	uCi/kg		107	70	130	7.5	24.7	
Method: E903.0							Batch: C_RA226-2933		
Sample ID: C08061168-012DMS	Sample Matrix Spike								
Radium 226	15	pCi/L		91	70	130			
Sample ID: C08061168-012DMSD	Sample Matrix Spike Duplicate								
Radium 226	14	pCi/L		90	70	130	1.1	24.2	
Sample ID: MB-RA226-2933	Method Blank								
Radium 226	0.02	pCi/L							U
Sample ID: LCS-RA226-2933	Laboratory Control Sample								
Radium 226	6.8	pCi/L		86	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18947		
Sample ID: C08060794-001AMS Thorium 230	Sample Matrix Spike 93.3 pCi/Filter		0.20	105	70	130			07/10/08 13:42
Sample ID: C08060794-001AMSD Thorium 230	Sample Matrix Spike Duplicate 93.4 pCi/Filter		0.20	94	70	130	0.1	30	07/10/08 13:44
Sample ID: LCS-18947 Thorium 230	Laboratory Control Sample 50.9 pCi/L		0.20	100	70	130			07/10/08 13:49
Sample ID: MB-18947 Thorium 230	Method Blank 0.9 pCi/L								07/10/08 12:56 U
Method: E907.0							Batch: C_RA-TH-ISO-0569		
Sample ID: LCS-RA-TH-ISO-0569 Thorium 230	Laboratory Control Sample 6.38 pCi/L		0.20	102	70	130			07/18/08 14:22
Sample ID: C08061256-002DMS Thorium 230	Sample Matrix Spike 15.0 pCi/L		0.20	92	70	130			07/18/08 14:22
Sample ID: C08061256-002DMSD Thorium 230	Sample Matrix Spike Duplicate 14.0 pCi/L		0.20	87	70	130	7.0	30	07/18/08 14:22
Sample ID: MB-RA-TH-ISO-0569 Thorium 230	Method Blank 0.10 pCi/L								07/18/08 20:05 U
Method: E909.0M							Batch: C_18947		
Sample ID: R08060347-004K Lead 210	Sample Matrix Spike 1000 pCi/L			88	70	130			07/15/08 07:15
Sample ID: R08060347-004K Lead 210	Sample Matrix Spike Duplicate 930 pCi/L			80	70	130	10	30	07/15/08 07:15
Sample ID: MB-R105488 Lead 210	Method Blank -1 pCi/L								07/15/08 07:15 U
Sample ID: LCS-R105488 Lead 210	Laboratory Control Sample 96 pCi/L			82	70	130			07/15/08 07:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105675		
Sample ID: C08070067-003AMS	Sample Matrix Spike				Run: SUB-C105675			07/18/08 08:20	
Lead 210	640	pCi/L	110	70	130				
Sample ID: C08070067-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105675			07/18/08 08:20	
Lead 210	540	pCi/L	92	70	130	18	30		
Sample ID: MB-R105675	Method Blank				Run: SUB-C105675			07/18/08 08:20	
Lead 210	-2	pCi/L							U
Sample ID: LCS-R105675	Laboratory Control Sample				Run: SUB-C105675			07/18/08 08:20	
Lead 210	110	pCi/L	94	70	130				
Method: RMO-3008							Batch: C_18947		
Sample ID: C08061021-001FMS	Sample Matrix Spike				Run: SUB-C106166			08/18/08 17:00	
Polonium 210	20	pCi/L	1.0	87	70	130			
Sample ID: C08061021-001FMDS	Sample Matrix Spike Duplicate				Run: SUB-C106166			08/18/08 17:00	
Polonium 210	21	pCi/L	1.0	93	70	130	7.1	30	
Sample ID: LCS-18947	Laboratory Control Sample				Run: SUB-C106166			08/18/08 17:00	
Polonium 210	110	pCi/L	1.0	135	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-18947	Method Blank				Run: SUB-C106166			08/18/08 17:00	
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R104445		
Sample ID: C08061292-003AMS	Sample Matrix Spike				Run: SUB-C104445			07/09/08 18:40	
Polonium 210	72	pCi/L	1.0	83	70	130			
Sample ID: C08061292-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104445			07/09/08 18:40	
Polonium 210	67	pCi/L	1.0	77	70	130	7.4	30	
Sample ID: LCS-R104445	Laboratory Control Sample				Run: SUB-C104445			07/09/08 18:40	
Polonium 210	25	pCi/L	1.0	58	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD are acceptable the batch is approved.									
Sample ID: MB-R104445	Method Blank				Run: SUB-C104445			07/09/08 18:40	
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc.: Powerbel DB		Sample Origin State: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>																																																	
Report Mail Address: _____		Contact Name: Cory Foreman Phone/Fax: _____		Email: _____	Sampler: (Please Print) Eric Krantz																																																	
Invoice Address: _____		Invoice Contact & Phone: _____		Purchase Order: _____	Quota/Boilte Order: _____																																																	
<p>Special Report/Formats - ELL must be notified prior to sample submittal for the following:</p> <p> <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC </p>																																																						
<p>SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)</p>			<p>Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other</p>		<p>ANALYSIS REQUESTED</p> <p>As per Quote + Pb + Po</p>																																																	
<table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>Dea Bund Sub 01</td> <td>Dea Bund Sub 02</td> <td>Dea Bund Sub 02</td> <td>Dea Bund Sub 03</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6/18/08</td> <td>6/18/08</td> <td>6/18/08</td> <td>6/18/08</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12:00</td> <td>13:05</td> <td>13:10</td> <td>14:15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>W</td> <td>W</td> <td>W</td> <td>W</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			1	2		3	4	5	6	7	8	9	10	Dea Bund Sub 01	Dea Bund Sub 02	Dea Bund Sub 02	Dea Bund Sub 03							6/18/08	6/18/08	6/18/08	6/18/08							12:00	13:05	13:10	14:15							W	W	W	W							<p>SEE ATTACHED</p> <p>Normal Turnaround (TAT) RUSH</p>
1	2	3	4	5	6	7	8	9	10																																													
Dea Bund Sub 01	Dea Bund Sub 02	Dea Bund Sub 02	Dea Bund Sub 03																																																			
6/18/08	6/18/08	6/18/08	6/18/08																																																			
12:00	13:05	13:10	14:15																																																			
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<p>Received by (Print): _____ Date/Time: _____</p>			<p>Received by Laboratory: _____ Date/Time: _____</p>		<p>Comments: ALL SW</p> <p>set 29 Dea Bund set 17 Triphale pit set 5 Triphale pit set 3 M. cluster pond</p>																																																	
<p>Signature: _____ Date/Time: _____</p>			<p>Signature: _____ Date/Time: _____</p>		<p>Shipped by: _____</p> <p>Cooler (Yes/No): _____</p> <p>Receipt Temp: 7.1 °C</p> <p>On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal Intact: Y N</p> <p>Signature Match: Y N</p>																																																	
<p>LABORATORY USE ONLY</p> <p>08060347-061</p> <p>082</p> <p>083</p> <p>084</p>																																																						

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.enerlab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08060403 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 6/24/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060403-001	DewBurd SUB08	06/23/08 12:20	06/24/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060403-002	DewBurd SUB09	06/23/08 12:50	06/24/08	Aqueous	Same As Above
R08060403-003	DewBurd SUB06	06/23/08 13:45	06/24/08	Aqueous	Same As Above



R08060403-004	DewBurd SUB07	06/23/08 14:30	06/24/08	Aqueous	Same As Above
R08060403-005	DewBurd SUB11	06/23/08 15:10	06/24/08	Aqueous	Same As Above
R08060403-006	DewBurd SUB10	06/23/08 16:25	06/24/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060403

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08061335

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08061335



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-001
 Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
 Collection Date: 06/23/08 12:20
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	130	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Calcium	79.4	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Chloride	14	mg/L		1		1	E300.0	06/25/08 11:51/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/25/08 11:51/jmh
Magnesium	31.5	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:12/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/25/08 11:51/jmh
Potassium	11	mg/L		1		2	E200.7	07/01/08 22:07/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Sodium	304	mg/L	D	2		2	E200.7	07/01/08 22:07/eli-c
Sulfate	747	mg/L	D	3		50	E300.0	06/25/08 11:35/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1800	umhos/cm		5.0		1	A2510 B	06/25/08 14:29/tb
pH	8.92	s.u.		0.01		1	A4500-H B	06/25/08 13:57/tb
Sodium Adsorption Ratio (SAR)	7.3	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	06/27/08 11:45/mb
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	06/27/08 17:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:30/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	07/01/08 22:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Manganese	0.01	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-001
 Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
 Collection Date: 06/23/08 12:20
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	07/07/08 15:30/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:30/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:30/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Arsenic	0.004	mg/L		0.001		10	E200.8	07/07/08 17:32/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/kl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Iron	0.53	mg/L		0.03		2	E200.7	07/08/08 00:19/eli-c
Lead	0.013	mg/L	D	0.007		10	E200.8	07/07/08 17:32/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Uranium	0.0016	mg/L		0.0003		10	E200.8	07/07/08 17:32/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Calcium	83.1	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Magnesium	33.5	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Potassium	11.5	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Silica	0.8	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Sodium	324	mg/L	D	1		2	E200.7	07/08/08 00:19/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 15:50/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 12:50/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-001
 Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
 Collection Date: 06/23/08 12:20
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	07/22/08 15:10/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/22/08 11:30/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	1.9	pCi/L	U				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.4	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.30	pCi/L					1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	-0.1	pCi/L	U				1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.4	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U				1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	14.1	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.1	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	5.1	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta	11.9	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	3.4	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	5.3	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	07/14/08 11:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-001
 Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
 Collection Date: 06/23/08 12:20
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	5.3	pCi/L	U	1.0			1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.0	pCi/L					1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.43	pCi/L					1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.52	pCi/L	U	0.2			1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:05/eli-b
DATA QUALITY									
A/C Balance (± 5)	3.86	%					1	A1030 E	08/21/08 00:00/iki
Anions	18.6	meq/L					1	A1030 E	08/21/08 00:00/iki
Cations	20.1	meq/L					1	A1030 E	08/21/08 00:00/iki
Solids, Total Dissolved Calculated	1270	mg/L					1	A1030 E	08/21/08 00:00/iki
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	08/21/08 00:00/iki

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-002
 Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
 Collection Date: 06/23/08 12:50
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	190	CFU/100ml	D	10		10	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Calcium	17.4	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Chloride	4	mg/L		1		1	E300.0	06/25/08 12:24/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/25/08 12:24/jmh
Magnesium	10.3	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:16/ch
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	06/25/08 12:24/jmh
Potassium	13	mg/L		1		2	E200.7	07/01/08 22:15/eli-c
Silica	5.9	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Sodium	9	mg/L	D	2		2	E200.7	07/01/08 22:15/eli-c
Sulfate	28	mg/L		1		1	E300.0	06/25/08 12:24/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	249	umhos/cm		5.0		1	A2510 B	06/25/08 14:29/tb
pH	7.40	s.u.		0.01		1	A4500-H B	06/25/08 13:58/tb
Sodium Adsorption Ratio (SAR)	0.42	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	425	mg/L		5		1	D3977	06/30/08 15:48/mb
Solids, Total Dissolved TDS @ 180 C	280	mg/L		5		1	A2540 C	08/20/08 00:00/mb
Solids, Total Suspended TSS @ 105 C	190	mg/L		5		1	A2540 D	06/27/08 17:06/mb
TDS value was reconfirmed								
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:37/eli-c
Iron	0.21	mg/L		0.03		2	E200.7	07/01/08 22:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-002
 Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
 Collection Date: 06/23/08 12:50
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	07/07/08 15:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
METALS - SUSPENDED								
Thorium 232	0.005	mg/L		0.001		1	E200.8	07/11/08 15:36/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8	07/11/08 15:36/eli-c
METALS - TOTAL								
Aluminum	42.8	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Arsenic	0.017	mg/L		0.001		10	E200.8	07/07/08 17:39/eli-c
Barium	0.2	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Chromium	0.05	mg/L		0.05		2	E200.7	07/08/08 00:23/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	0.05	mg/L		0.01		1	Calculation	08/21/08 00:00/kl
Copper	0.02	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Iron	37.0	mg/L		0.03		2	E200.7	07/08/08 00:23/eli-c
Lead	0.045	mg/L	D	0.007		10	E200.8	07/07/08 17:39/eli-c
Manganese	0.23	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:23/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Thorium 232	0.010	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Uranium	0.0023	mg/L		0.0003		10	E200.8	07/07/08 17:39/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Zinc	0.11	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Calcium	22.6	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Magnesium	18.3	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Potassium	24.9	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Silica	73.4	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Sodium	9	mg/L	D	1		2	E200.7	07/08/08 00:23/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 15:56/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-002
 Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
 Collection Date: 06/23/08 12:50
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 12:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	07/22/08 15:16/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:36/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	8.6	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	1.7	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	20.6	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	07/19/08 01:30/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-002
 Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
 Collection Date: 06/23/08 12:50
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Gamma	0.0	pCi/L	U	20.0		1 E901.1	07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	3.6	pCi/L	U	1.0		1 E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.8	pCi/L				1 E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1 RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.72	pCi/L				1 RMO-3008	08/21/08 13:47/eli-c
Radium 226	0.04	pCi/L	U	0.2		1 E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/21/08 13:47/eli-c
Thorium 230	0.5	pCi/L		0.2		1 E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.0001		1 E245.1	07/09/08 12:12/eli-b
DATA QUALITY							
A/C Balance (± 5)	3.63	%				1 A1030 E	08/21/08 00:00/lkl
Anions	2.36	meq/L				1 A1030 E	08/21/08 00:00/lkl
Cations	2.54	meq/L				1 A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	149	mg/L				1 A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.87					1 A1030 E	08/21/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-003
 Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
 Collection Date: 06/23/08 13:45
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Calcium	328	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Chloride	5	mg/L		1		1	E300.0	06/25/08 12:57/jmh
Fluoride	3.9	mg/L		0.1		1	E300.0	06/25/08 12:57/jmh
Magnesium	436	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Nitrogen, Ammonia as N	2.0	mg/L		0.1		2	A4500-NH3 G	06/25/08 16:28/ch
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	06/25/08 12:57/jmh
Potassium	17	mg/L		1		2	E200.7	07/01/08 22:19/eli-c
Silica	10.2	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Sodium	52	mg/L	D	2		2	E200.7	07/01/08 22:19/eli-c
Sulfate	3180	mg/L	D	3		50	E300.0	06/25/08 12:40/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4110	umhos/cm		5.0		1	A2510 B	06/25/08 14:31/tb
pH	3.52	s.u.		0.01		1	A4500-H B	06/25/08 13:59/tb
Sodium Adsorption Ratio (SAR)	0.44	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	8	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	4500	mg/L		5		1	A2540 C	06/27/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	06/27/08 17:07/mb
METALS - DISSOLVED								
Aluminum	64.4	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Cadmium	0.015	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Chromium	0.01	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
Copper	0.07	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
Iron	1.88	mg/L		0.03		2	E200.7	07/01/08 22:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Manganese	133	mg/L		0.01		20	E200.7	07/15/08 12:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Nickel	3.01	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-003
 Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
 Collection Date: 06/23/08 13:45
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Uranium	3.22	mg/L		0.0003		1	E200.8	07/07/08 15:44/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Zinc	2.99	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:43/eli-c
Uranium	0.0015	mg/L		0.0003		1	E200.8	07/11/08 15:43/eli-c
METALS - TOTAL								
Aluminum	62.8	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	07/07/08 18:06/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Cadmium	0.019	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:27/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	0.06	mg/L		0.01		2	E200.7	07/08/08 00:27/eli-c
Iron	2.19	mg/L		0.03		2	E200.7	07/08/08 00:27/eli-c
Lead	0.011	mg/L	D	0.007		10	E200.8	07/07/08 18:06/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	07/11/08 18:38/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Nickel	3.03	mg/L		0.05		2	E200.7	07/08/08 00:27/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Thorium 232	0.005	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Uranium	3.61	mg/L		0.0003		10	E200.8	07/07/08 18:06/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Zinc	2.92	mg/L		0.01		2	E200.7	07/08/08 00:27/eli-c
Calcium	330	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Magnesium	439	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Potassium	17.7	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Silica	11.4	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Sodium	54	mg/L	D	1		2	E200.7	07/08/08 00:27/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.009	mg/L		0.005		1	A3114 B	07/19/08 15:58/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-003
 Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
 Collection Date: 06/23/08 13:45
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-VI	0.009	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED									
Selenium	0.008	mg/L		0.001			1	A3114 B	07/22/08 15:18/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/22/08 11:38/eli-c
Selenium-VI	0.008	mg/L		0.001			1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	-0.6	pCi/L	U				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.3	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.60	pCi/L					1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	2.2	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Thorium 230	6.3	pCi/L		0.2			1	E907.0	07/24/08 15:44/eli-c
Thorium 230 precision (±)	2.0	pCi/L					1	E907.0	07/24/08 15:44/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.7	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.4	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.2	pCi/L	U				1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	3570	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	82.4	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	16.6	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta	1200	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	24.5	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	17.5	pCi/L					1	E900.0	07/19/08 01:30/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	07/14/08 11:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-003
 Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
 Collection Date: 06/23/08 13:45
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	3.1	pCi/L	U	1.0			1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.9	pCi/L					1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.7	pCi/L	U	1.0			1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.72	pCi/L					1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	2.0	pCi/L		0.2			1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	08/21/08 13:47/eli-c
Thorium 230	6.5	pCi/L		0.2			1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	2.0	pCi/L					1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:14/eli-b
DATA QUALITY									
A/C Balance (± 5)	3.85	%					1	A1030 E	08/21/08 00:00/kl
Anions	66.6	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	72.0	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	4050	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.12						1	A1030 E	08/21/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-004
 Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
 Collection Date: 06/23/08 14:30
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Calcium	21.6	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Chloride	2	mg/L		1		1	E300.0	06/25/08 14:35/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	06/25/08 14:35/jmh
Magnesium	12.2	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:18/ch
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	06/25/08 14:35/jmh
Potassium	10	mg/L		1		2	E200.7	07/01/08 22:23/eli-c
Silica	2.8	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Sodium	2	mg/L	D	2		2	E200.7	07/01/08 22:23/eli-c
Sulfate	169	mg/L	D	3		50	E300.0	06/25/08 13:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	283	umhos/cm		5.0		1	A2510 B	06/25/08 14:31/tb
pH	4.97	s.u.		0.01		1	A4500-H B	06/25/08 14:00/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	26	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	180	mg/L		5		1	A2540 C	06/27/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	32	mg/L		5		1	A2540 D	06/27/08 17:08/mb
METALS - DISSOLVED								
Aluminum	0.1	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:50/eli-c
Iron	0.11	mg/L		0.03		2	E200.7	07/01/08 22:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Manganese	1.98	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Nickel	0.03	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-004
 Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
 Collection Date: 06/23/08 14:30
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	07/07/08 15:50/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Zinc	0.04	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:49/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:49/eli-c
METALS - TOTAL								
Aluminum	0.8	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	07/07/08 18:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:31/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/kl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Iron	1.47	mg/L		0.03		2	E200.7	07/08/08 00:31/eli-c
Lead	0.013	mg/L	D	0.007		10	E200.8	07/07/08 18:13/eli-c
Manganese	2.03	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:31/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Uranium	0.0006	mg/L		0.0003		10	E200.8	07/07/08 18:13/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Calcium	22.6	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Magnesium	12.7	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Potassium	10.7	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Silica	4.9	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/08/08 00:31/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:00/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-004
 Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
 Collection Date: 06/23/08 14:30
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	07/22/08 15:20/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/22/08 11:40/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	-1.4	pCi/L	U				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.3	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.4	pCi/L	U	1.0			1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	-0.02	pCi/L	U				1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.6	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.9	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.55	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U				1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	5.8	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Alpha precision (±)	1.1	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Alpha MDC	1.2	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta	12.1	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta precision (±)	1.7	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta MDC	2.5	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	07/14/08 11:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-004
 Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
 Collection Date: 06/23/08 14:30
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	-0.8	pCi/L	U	1.0			1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.9	pCi/L					1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	1.3	pCi/L		1.0			1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.74	pCi/L					1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.38	pCi/L	U	0.2			1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:17/eli-b
DATA QUALITY									
A/C Balance (± 5)	-16.2	%					1	A1030 E	08/21/08 00:00/lkl
Anions	3.59	meq/L					1	A1030 E	08/21/08 00:00/lkl
Cations	2.59	meq/L					1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	225	mg/L					1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.780						1	A1030 E	08/21/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-005
 Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
 Collection Date: 06/23/08 15:10
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	20			A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	6	mg/L		5			A2320 B	06/25/08 12:10/mb
Carbonate as CO3	ND	mg/L		5			A2320 B	06/25/08 12:10/mb
Bicarbonate as HCO3	7	mg/L		5			A2320 B	06/25/08 12:10/mb
Calcium	11.2	mg/L		0.5			E200.7	07/01/08 22:27/eli-c
Chloride	ND	mg/L		1			E300.0	06/25/08 15:08/jmh
Fluoride	0.2	mg/L		0.1			E300.0	06/25/08 15:08/jmh
Magnesium	3.2	mg/L		0.5			E200.7	07/01/08 22:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			A4500-NH3 G	06/25/08 15:21/ch
Nitrogen, Nitrate as N	0.1	mg/L		0.1			E300.0	06/25/08 15:08/jmh
Potassium	6	mg/L		1			E200.7	07/01/08 22:27/eli-c
Silica	2.6	mg/L		0.5			E200.7	07/01/08 22:27/eli-c
Sodium	3	mg/L	D	2			E200.7	07/01/08 22:27/eli-c
Sulfate	43	mg/L		1			E300.0	06/25/08 15:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	131	umhos/cm		5.0			A2510 B	06/25/08 14:32/tb
pH	5.96	s.u.		0.01			A4500-H B	06/25/08 14:01/tb
Sodium Adsorption Ratio (SAR)	0.19	unitless		0.10			Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	189	mg/L		5			D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	200	mg/L		5			A2540 C	06/27/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	74	mg/L		5			A2540 D	06/27/08 17:08/mb
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1			E200.7	07/01/08 22:27/eli-c
Arsenic	0.001	mg/L		0.001			E200.8	07/07/08 15:57/eli-c
Barium	ND	mg/L		0.1			E200.7	07/01/08 22:27/eli-c
Boron	ND	mg/L		0.1			E200.7	07/01/08 22:27/eli-c
Cadmium	ND	mg/L		0.005			E200.8	07/07/08 15:57/eli-c
Chromium	ND	mg/L		0.01			E200.7	07/01/08 22:27/eli-c
Copper	ND	mg/L		0.01			E200.8	07/07/08 15:57/eli-c
Iron	0.72	mg/L		0.03			E200.7	07/01/08 22:27/eli-c
Lead	ND	mg/L		0.001			E200.8	07/07/08 15:57/eli-c
Manganese	0.74	mg/L		0.01			E200.7	07/01/08 22:27/eli-c
Mercury	ND	mg/L		0.001			E200.8	07/07/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1			E200.7	07/01/08 22:27/eli-c
Nickel	ND	mg/L		0.01			E200.7	07/01/08 22:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-005
 Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
 Collection Date: 06/23/08 15:10
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:57/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/07/08 15:57/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	07/01/08 22:27/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:56/eli-c
METALS - TOTAL								
Aluminum	9.6	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Arsenic	0.005	mg/L		0.001		10	E200.8	07/07/08 18:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:36/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/kl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Iron	21.4	mg/L		0.03		2	E200.7	07/08/08 00:36/eli-c
Lead	0.021	mg/L	D	0.007		10	E200.8	07/07/08 18:19/eli-c
Manganese	0.91	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:36/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Uranium	0.0008	mg/L		0.0003		10	E200.8	07/07/08 18:19/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Calcium	12.3	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Magnesium	4.3	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Potassium	9.0	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Silica	20.1	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/08/08 00:36/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:02/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:04/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-005
 Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
 Collection Date: 06/23/08 15:10
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED - SPECIATED							
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED							
Selenium	ND	mg/L		0.001		1	A3114 B 07/22/08 15:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/22/08 11:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED							
Lead 210	3.2	pCi/L	U			1	E909.0M 07/10/08 10:10/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M 07/10/08 10:10/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M 07/10/08 10:10/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0 07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0 07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	5.0	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.67	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0 07/15/08 23:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0 07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	9.4	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Alpha MDC	1.2	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Beta	10.4	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0 07/19/08 01:29/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1 07/14/08 11:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-005
 Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
 Collection Date: 06/23/08 15:10
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	8.2	pCi/L	U	1.0			1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.1	pCi/L					1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.9	pCi/L	U	1.0			1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.83	pCi/L					1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.51	pCi/L	U	0.2			1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:19/eli-b
DATA QUALITY									
A/C Balance (± 5)	7.71	%					1	A1030 E	08/21/08 00:00/iki
Anions	1.05	meq/L					1	A1030 E	08/21/08 00:00/iki
Cations	1.23	meq/L					1	A1030 E	08/21/08 00:00/iki
Solids, Total Dissolved Calculated	79.0	mg/L					1	A1030 E	08/21/08 00:00/iki
TDS Balance (0.80 - 1.20)	2.56						1	A1030 E	08/21/08 00:00/iki

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-006
 Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
 Collection Date: 06/23/08 16:25
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	170	CFU/100ml	D	10		10	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	38	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Bicarbonate as HCO3	46	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Calcium	34.0	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Chloride	3	mg/L		1		1	E300.0	06/25/08 15:41/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	06/25/08 15:41/jmh
Magnesium	14.5	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:23/ch
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	06/25/08 15:41/jmh
Potassium	13	mg/L		1		2	E200.7	07/01/08 22:32/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Sodium	19	mg/L	D	2		2	E200.7	07/01/08 22:32/eli-c
Sulfate	135	mg/L		1		10	E300.0	06/25/08 15:24/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	419	umhos/cm		5.0		1	A2510 B	06/25/08 14:34/tb
pH	6.96	s.u.		0.01		1	A4500-H B	06/25/08 14:03/tb
Sodium Adsorption Ratio (SAR)	0.70	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	737	mg/L		5		1	D3977	06/30/08 15:54/mb
Solids, Total Dissolved TDS @ 180 C	410	mg/L		5		1	A2540 C	08/20/08 00:00/mb
Solids, Total Suspended TSS @ 105 C	220	mg/L		5		1	A2540 D	06/27/08 17:08/mb
TDS value was reconfirmed								
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 16:04/eli-c
Iron	0.14	mg/L		0.03		2	E200.7	07/01/08 22:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-006
 Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
 Collection Date: 06/23/08 16:25
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	07/07/08 16:04/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
METALS - SUSPENDED								
Thorium 232	0.005	mg/L		0.001		1	E200.8	07/11/08 16:23/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8	07/11/08 16:23/eli-c
METALS - TOTAL								
Aluminum	35.0	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Arsenic	0.010	mg/L		0.001		10	E200.8	07/07/08 18:26/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Chromium	0.05	mg/L		0.05		2	E200.7	07/08/08 00:40/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	0.05	mg/L		0.01		1	Calculation	08/21/08 00:00/kl
Copper	0.02	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Iron	33.7	mg/L		0.03		2	E200.7	07/08/08 00:40/eli-c
Lead	0.039	mg/L	D	0.007		10	E200.8	07/07/08 18:26/eli-c
Manganese	0.35	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:40/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Thorium 232	0.015	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Uranium	0.0022	mg/L		0.0003		10	E200.8	07/07/08 18:26/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Zinc	0.09	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Calcium	39.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Magnesium	20.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Potassium	23.1	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Silica	64.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Sodium	19	mg/L	D	1		2	E200.7	07/08/08 00:40/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:04/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-006
 Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
 Collection Date: 06/23/08 16:25
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 13:06/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED									
Selenium	ND	mg/L		0.001			1	A3114 B	07/22/08 15:29/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/22/08 11:49/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED									
Lead 210	0.1	pCi/L	U				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.1	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.5	pCi/L					1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L					1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	0.2	pCi/L	U				1	E903.0	07/09/08 12:50/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/09/08 12:50/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	07/09/08 12:50/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	5.2	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	1.1	pCi/L		1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.71	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.6	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	16.3	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Alpha precision (±)	2.0	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Alpha MDC	1.6	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta	22.1	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta precision (±)	1.9	pCi/L					1	E900.0	07/19/08 01:29/eli-c
Gross Beta MDC	2.6	pCi/L					1	E900.0	07/19/08 01:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060403-006
 Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
 Collection Date: 06/23/08 16:25
 Date Received: 06/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma	0.0	pCi/L	U	20.0			1	E901.1	07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	5.3	pCi/L	U	1.0			1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.1	pCi/L					1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	1.1	pCi/L			1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	1.0	pCi/L					1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	0.8	pCi/L		0.2			1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:21/eli-b
DATA QUALITY									
A/C Balance (± 5)	5.17	%					1	A1030 E	08/21/08 00:00/iki
Anions	3.73	meq/L					1	A1030 E	08/21/08 00:00/iki
Cations	4.14	meq/L					1	A1030 E	08/21/08 00:00/iki
Solids, Total Dissolved Calculated	258	mg/L					1	A1030 E	08/21/08 00:00/iki
TDS Balance (0.80 - 1.20)	1.59						1	A1030 E	08/21/08 00:00/iki

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080625A-ALK-SEL-W		
Sample ID: LCS1_080625A	Laboratory Control Sample					Run: PH_COND1-R_080625A			06/25/08 09:31
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080625A	Method Blank					Run: PH_COND1-R_080625A			06/25/08 09:34
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08060403-005CMS	Sample Matrix Spike					Run: PH_COND1-R_080625A			06/25/08 12:14
Alkalinity, Total as CaCO3	112	mg/L	5.0	100	80	120			
Sample ID: R08060403-005CMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_080625A			06/25/08 12:16
Alkalinity, Total as CaCO3	114	mg/L	5.0	102	80	120	1.8	10	
Method: A2510 B							Batch: 080625_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080625	Laboratory Control Sample					Run: PH_COND2-R_080625B			06/25/08 14:24
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: LCS1-1_080625	Laboratory Control Sample					Run: PH_COND2-R_080625B			06/25/08 14:25
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080625	Laboratory Control Sample					Run: PH_COND2-R_080625B			06/25/08 14:25
Conductivity @ 25 C	5040	umhos/cm	5.0	101	90	110			
Sample ID: R08060403-006CDUP	Sample Duplicate					Run: PH_COND2-R_080625B			06/25/08 14:39
Conductivity @ 25 C	415	umhos/cm	5.0				1.0	10	
Sample ID: MBLK-1_080625	Method Blank					Run: PH_COND2-R_080625B			06/25/08 14:37
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 080627A-SLDS-TDS-W		
Sample ID: LCS1_080627A	Laboratory Control Sample					Run: BAL-4-R_080627A			06/27/08 11:42
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	98	90	110			
Sample ID: MBLK1_080627A	Method Blank					Run: BAL-4-R_080627A			06/27/08 11:44
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060417-001AMS	Sample Matrix Spike					Run: BAL-4-R_080627A			06/27/08 11:49
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	127	80	120			S
Sample ID: R08060417-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080627A			06/27/08 11:50
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	108	80	120	2.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080627A-SLDS-TSS-W		
Sample ID: LCS1_080627A	Laboratory Control Sample				Run: BAL-4-R_080627B		06/27/08 17:02		
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Sample ID: MBLK1_080627A	Method Blank				Run: BAL-4-R_080627B		06/27/08 17:03		
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08060403-003CDUP	Sample Duplicate				Run: BAL-4-R_080627B		06/27/08 17:07		
Solids, Total Suspended TSS @ 105 C	10	mg/L	5.0				33	20	R
Method: A3114 B							Batch: C_SE3114-080719B		
Sample ID: MBLK	Method Blank				Run: SUB-C104481		07/19/08 12:46		
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104481		07/19/08 12:48		
Selenium-IV	0.055	mg/L	0.0010	110	90	110			
Sample ID: R08060403-001A	Sample Matrix Spike				Run: SUB-C104481		07/19/08 12:52		
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08060403-001A	Sample Matrix Spike Duplicate				Run: SUB-C104481		07/19/08 12:54		
Selenium-IV	0.052	mg/L	0.0010	104	85	115	1.2	10	
Method: A3114 B							Batch: C_SE3114-080719D		
Sample ID: MBLK	Method Blank				Run: SUB-C104485		07/19/08 15:42		
Selenium	ND	mg/L	6E-05						
Sample ID: R08060403-001A	Sample Matrix Spike				Run: SUB-C104485		07/19/08 15:52		
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08060403-001A	Sample Matrix Spike Duplicate				Run: SUB-C104485		07/19/08 15:54		
Selenium	0.053	mg/L	0.0010	104	85	115	4.2	10	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080722B		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C104619			07/22/08 10:52
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.053 mg/L		0.0010	106	90	110			07/22/08 10:55
Sample ID: R08060403-001H Selenium-IV	Sample Matrix Spike 0.055 mg/L		0.0010	110	85	115			07/22/08 11:32
Sample ID: R08060403-001H Selenium-IV	Sample Matrix Spike Duplicate 0.054 mg/L		0.0010	108	85	115	1.5	10	07/22/08 11:34
Method: A3114 B							Batch: C_SE3114-080722C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C104640			07/22/08 14:38
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.052 mg/L		0.0010	104	90	110			07/22/08 14:40
Sample ID: R08060403-001H Selenium	Sample Matrix Spike 0.050 mg/L		0.0010	101	85	115			07/22/08 15:12
Sample ID: R08060403-001H Selenium	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	101	85	115	0.5	10	07/22/08 15:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080624-CR-HEX-W		
Sample ID: MBLK Chromium, Hexavalent	Method Blank ND	mg/L	0.005						
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: LCS Chromium, Hexavalent	Laboratory Control Sample 0.23	mg/L	0.0050	113	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-001E Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	104	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-002E Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	105	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-003E Chromium, Hexavalent	Sample Matrix Spike 0.23	mg/L	0.0050	113	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-004E Chromium, Hexavalent	Sample Matrix Spike 0.19	mg/L	0.0050	96	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-005E Chromium, Hexavalent	Sample Matrix Spike 0.21	mg/L	0.0050	105	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Sample ID: R08060403-006E Chromium, Hexavalent	Sample Matrix Spike 0.22	mg/L	0.0050	109	80	120			06/24/08 00:00
						Run: SPEC1_080624B			06/24/08 00:00
Method: A4500-H B							Batch: 080625_1_PH-W		
Sample ID: LCS_pH-1_080625 pH	Laboratory Control Sample 6.91	s.u.	0.010	101	98.55	101.45			
						Run: PH_COND2-R_080625A			06/25/08 13:53
Sample ID: R08060405-001BDUP pH	Sample Duplicate 7.69	s.u.	0.010				0.1	1.25	
						Run: PH_COND2-R_080625A			06/25/08 14:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2008-06-25_2_NH3_01
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080625A 06/25/08 14:58
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.28	mg/L	0.10	113	90	110			Run: TECHAA2-R_080625A 06/25/08 14:59 S
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.28	mg/L	0.10	110	90	110			Run: TECHAA2-R_080625A 06/25/08 15:00
Sample ID: R08060354-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike ND	mg/L	0.10		80	120			Run: TECHAA2-R_080625A 06/25/08 15:04 S
Sample ID: R08060354-002BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate ND	mg/L	0.10		80	120	0.0	10	Run: TECHAA2-R_080625A 06/25/08 15:05 S
Sample ID: R08060403-004FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	107	80	120			Run: TECHAA2-R_080625A 06/25/08 15:19
Sample ID: R08060403-004FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.44	mg/L	0.10	100	80	120	4.0	10	Run: TECHAA2-R_080625A 06/25/08 15:20
Sample ID: R08060427-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.43	mg/L	0.10	114	80	120			Run: TECHAA2-R_080625A 06/25/08 15:45
Sample ID: R08060427-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.43	mg/L	0.10	112	80	120	0.7	10	Run: TECHAA2-R_080625A 06/25/08 15:46
Method: A9222 D									Batch: 080624-BCT-FCB-W-MF
Sample ID: MBLK Bacteria, Fecal Coliform	Method Blank ND	CFU/100ml							Run: MEMFILT_080624A 06/24/08 11:05
Sample ID: R08060404-001A Bacteria, Fecal Coliform	Sample Duplicate 4.0	CFU/100ml	2.0				0.0	10	Run: MEMFILT_080624A 06/24/08 11:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18997		
Sample ID: MB-18997	Method Blank		Run: SUB-C103815			07/07/08 23:38			
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	ND	mg/L	0.005						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.4	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18997	Laboratory Control Sample		Run: SUB-C103815			07/07/08 23:42			
Aluminum	2.41	mg/L	0.10	96	85	115			
Barium	0.498	mg/L	0.10	100	85	115			
Boron	0.513	mg/L	0.10	103	85	115			
Chromium	0.511	mg/L	0.050	102	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Manganese	2.56	mg/L	0.010	102	85	115			
Molybdenum	0.502	mg/L	0.10	100	85	115			
Nickel	0.512	mg/L	0.050	102	85	115			
Vanadium	0.539	mg/L	0.10	108	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Calcium	25.8	mg/L	1.0	103	85	115			
Magnesium	26.3	mg/L	1.0	105	85	115			
Potassium	25.7	mg/L	1.0	103	85	115			
Silica	6.24	mg/L	0.10	116	85	115			
Sodium	26.0	mg/L	1.0	104	85	115			
Sample ID: R08060403-006B	Sample Matrix Spike		Run: SUB-C103815			07/08/08 00:44			
Aluminum	72.4	mg/L	0.10		70	130			A
Barium	0.704	mg/L	0.10	111	70	130			
Boron	0.639	mg/L	0.10	105	70	130			
Chromium	0.588	mg/L	0.050	107	70	130			
Copper	0.526	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18997		
Sample ID: R08060403-006B	Sample Matrix Spike			Run: SUB-C103815			07/08/08 00:44		
Iron	41.5	mg/L	0.030		70	130			A
Manganese	2.87	mg/L	0.010	101	70	130			
Molybdenum	0.476	mg/L	0.10	95	70	130			
Nickel	0.540	mg/L	0.050	100	70	130			
Vanadium	0.693	mg/L	0.10	109	70	130			
Zinc	0.585	mg/L	0.010	100	70	130			
Calcium	64.1	mg/L	1.0	98	70	130			
Magnesium	47.9	mg/L	1.0	110	70	130			
Potassium	54.3	mg/L	1.0	125	70	130			
Silica	86.7	mg/L	0.10		70	130			A
Sodium	45.9	mg/L	1.1	106	70	130			
Sample ID: R08060403-006B	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 00:48		
Aluminum	72.2	mg/L	0.10		70	130	0.4	20	A
Barium	0.718	mg/L	0.10	114	70	130	2.1	20	
Boron	0.646	mg/L	0.10	107	70	130	1.1	20	
Chromium	0.611	mg/L	0.050	112	70	130	3.7	20	
Copper	0.540	mg/L	0.010	104	70	130	2.6	20	
Iron	41.0	mg/L	0.030		70	130	1.4	20	A
Manganese	2.91	mg/L	0.010	102	70	130	1.3	20	
Molybdenum	0.491	mg/L	0.10	98	70	130	3.1	20	
Nickel	0.568	mg/L	0.050	106	70	130	4.9	20	
Vanadium	0.718	mg/L	0.10	114	70	130	3.6	20	
Zinc	0.602	mg/L	0.010	103	70	130	2.9	20	
Calcium	64.7	mg/L	1.0	100	70	130	1.0	20	
Magnesium	48.7	mg/L	1.0	113	70	130	1.6	20	
Potassium	54.2	mg/L	1.0	124	70	130	0.3	20	
Silica	93.1	mg/L	0.10		70	130	7.2	20	A
Sodium	45.5	mg/L	1.1	104	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103608		
Sample ID: MB-080701A	Method Blank			Run: SUB-C103608			07/01/08 14:04		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080701A	Laboratory Fortified Blank			Run: SUB-C103608			07/01/08 14:08		
Silica	0.38	mg/L	0.10	95	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	0.98	mg/L	0.10	98	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Calcium	52	mg/L	0.50	103	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Copper	1.0	mg/L	0.010	101	85	125			
Iron	1.0	mg/L	0.030	105	85	125			
Magnesium	51	mg/L	0.50	102	85	125			
Manganese	1.00	mg/L	0.010	100	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Vanadium	1.0	mg/L	0.10	101	85	125			
Zinc	1.0	mg/L	0.010	101	85	125			
Sample ID: C08061051-003CMS2	Sample Matrix Spike			Run: SUB-C103608			07/01/08 21:59		
Aluminum	10.3	mg/L	0.10	101	70	130			
Barium	9.92	mg/L	0.10	97	70	130			
Boron	15.8	mg/L	0.10	100	70	130			
Chromium	10.2	mg/L	0.050	102	70	130			
Copper	10.1	mg/L	0.052	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R103608			
Sample ID: C08061051-003CMS2	Sample Matrix Spike			Run: SUB-C103608			07/01/08 21:59			
Iron	12.7	mg/L	0.047	109	70	130				
Manganese	11.5	mg/L	0.010	101	70	130				
Molybdenum	10.1	mg/L	0.10	101	70	130				
Nickel	9.88	mg/L	0.050	99	70	130				
Vanadium	10.6	mg/L	0.10	105	70	130				
Zinc	10.2	mg/L	0.022	102	70	130				
Calcium	760	mg/L	1.1	104	70	130				
Magnesium	571	mg/L	1.0	105	70	130				
Potassium	571	mg/L	1.0	84	70	130				
Silica	25.3	mg/L	0.21		70	130			A	
Sodium	2710	mg/L	7.7		70	130			A	
Sample ID: C08061051-003CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103608			07/01/08 22:03			
Aluminum	9.67	mg/L	0.10	95	70	130	6.1	20		
Barium	9.55	mg/L	0.10	94	70	130	3.9	20		
Boron	15.7	mg/L	0.10	99	70	130	1.0	20		
Chromium	9.85	mg/L	0.050	99	70	130	3.1	20		
Copper	9.73	mg/L	0.052	97	70	130	3.4	20		
Iron	12.2	mg/L	0.047	104	70	130	4.0	20		
Manganese	11.0	mg/L	0.010	97	70	130	4.0	20		
Molybdenum	9.74	mg/L	0.10	97	70	130	3.6	20		
Nickel	9.58	mg/L	0.050	96	70	130	3.1	20		
Vanadium	10.3	mg/L	0.10	102	70	130	2.9	20		
Zinc	9.79	mg/L	0.022	98	70	130	4.5	20		
Calcium	754	mg/L	1.1	103	70	130	0.8	20		
Magnesium	555	mg/L	1.0	102	70	130	2.9	20		
Potassium	573	mg/L	1.0	84	70	130	0.4	20		
Silica	24.9	mg/L	0.21		70	130	1.6	20	A	
Sodium	2770	mg/L	7.7		70	130	2.3	20	A	
Sample ID: C08060805-001CMS2	Sample Matrix Spike			Run: SUB-C103608			07/01/08 22:52			
Aluminum	3.80	mg/L	0.10	83	70	130				
Barium	1.11	mg/L	0.10	100	70	130				
Boron	1.04	mg/L	0.10	101	70	130				
Chromium	1.04	mg/L	0.050	103	70	130				
Copper	1.04	mg/L	0.010	103	70	130				
Iron	2.85	mg/L	0.030	99	70	130				
Manganese	1.07	mg/L	0.010	103	70	130				
Molybdenum	0.927	mg/L	0.10	93	70	130				
Nickel	1.01	mg/L	0.050	101	70	130				
Vanadium	1.10	mg/L	0.10	103	70	130				

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R103608			
Sample ID: C08060805-001CMS2	Sample Matrix Spike			Run: SUB-C103608			07/01/08 22:52			
Zinc	1.08	mg/L	0.010	105	70	130				
Calcium	66.3	mg/L	1.0	106	70	130				
Magnesium	56.8	mg/L	1.0	107	70	130				
Potassium	52.6	mg/L	1.0	89	70	130				
Silica	12.3	mg/L	0.10		70	130			A	
Sodium	50.6	mg/L	1.0	100	70	130				
Sample ID: C08060805-001CMSD2							Batch: C_R103608			
	Sample Matrix Spike Duplicate			Run: SUB-C103608			07/01/08 22:56			
Aluminum	3.91	mg/L	0.10	94	70	130	2.9	20		
Barium	1.10	mg/L	0.10	98	70	130	1.1	20		
Boron	1.05	mg/L	0.10	102	70	130	0.4	20		
Chromium	1.03	mg/L	0.050	102	70	130	1.0	20		
Copper	1.02	mg/L	0.010	102	70	130	1.1	20		
Iron	2.81	mg/L	0.030	95	70	130	1.5	20		
Manganese	1.06	mg/L	0.010	102	70	130	0.8	20		
Molybdenum	0.958	mg/L	0.10	96	70	130	3.2	20		
Nickel	0.999	mg/L	0.050	100	70	130	1.4	20		
Vanadium	1.06	mg/L	0.10	99	70	130	3.5	20		
Zinc	1.08	mg/L	0.010	104	70	130	0.3	20		
Calcium	66.0	mg/L	1.0	105	70	130	0.5	20		
Magnesium	56.5	mg/L	1.0	107	70	130	0.5	20		
Potassium	53.0	mg/L	1.0	90	70	130	0.8	20		
Silica	12.1	mg/L	0.10		70	130	1.5	20	A	
Sodium	50.2	mg/L	1.0	99	70	130	0.8	20		
Method: E200.7							Batch: C_R104315			
Sample ID: MB-080715A	Method Blank			Run: SUB-C104315			07/15/08 11:56			
Manganese	ND	mg/L	0.0003							
Sample ID: LFB-080715A	Laboratory Fortified Blank			Run: SUB-C104315			07/15/08 12:00			
Manganese	1.0	mg/L	0.010	103	85	125				
Sample ID: R08060403-003A	Sample Matrix Spike			Run: SUB-C104315			07/15/08 12:08			
Manganese	150	mg/L	0.010		70	130			A	
Sample ID: R08060403-003A	Sample Matrix Spike Duplicate			Run: SUB-C104315			07/15/08 12:12			
Manganese	145	mg/L	0.010		70	130	3.2	20	A	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18997		
Sample ID: MB-18997	Method Blank			Run: SUB-C103823			07/07/08 16:51		
Arsenic	0.0009	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	0.006	mg/L							
Manganese	0.0003	mg/L	3E-05						
Silver	6E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18997	Laboratory Control Sample			Run: SUB-C103823			07/07/08 16:58		
Arsenic	0.554	mg/L	0.0010	111	85	115			
Cadmium	0.270	mg/L	0.010	108	85	115			
Lead	0.562	mg/L	0.050	111	85	115			
Manganese	2.76	mg/L	0.010	110	85	115			
Silver	0.0448	mg/L	0.010	89	85	115			
Thorium 232	0.541	mg/L	0.0010	108	85	115			
Uranium	0.543	mg/L	0.00032	109	85	115			
Sample ID: R08060403-006B	Sample Matrix Spike			Run: SUB-C103823			07/07/08 18:33		
Arsenic	0.638	mg/L	0.0010	125	70	130			
Cadmium	0.305	mg/L	0.010	122	70	130			
Lead	0.651	mg/L	0.050	122	70	130			
Manganese	3.47	mg/L	0.010	121	70	130			
Silver	0.0530	mg/L	0.010	106	70	130			
Thorium 232	0.640	mg/L	0.0010	125	70	130			
Uranium	0.630	mg/L	0.00032	126	70	130			
Sample ID: R08060403-006B	Sample Matrix Spike Duplicate			Run: SUB-C103823			07/07/08 18:40		
Arsenic	0.632	mg/L	0.0010	124	70	130	0.8	20	
Cadmium	0.300	mg/L	0.010	120	70	130	1.7	20	
Lead	0.638	mg/L	0.050	120	70	130	2.0	20	
Manganese	3.47	mg/L	0.010	121	70	130	0.1	20	
Silver	0.0550	mg/L	0.010	110	70	130	3.8	20	
Thorium 232	0.623	mg/L	0.0010	122	70	130	2.6	20	
Uranium	0.614	mg/L	0.00032	122	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103823		
Sample ID: LRB	Method Blank			Run: SUB-C103823			07/07/08 14:02		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	7E-05	mg/L	3E-05						
Thorium 232	5E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103823			07/07/08 14:09		
Arsenic	0.0535	mg/L	0.0010	107	85	115			
Cadmium	0.0531	mg/L	0.0010	106	85	115			
Copper	0.0538	mg/L	0.0010	108	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00523	mg/L	0.0010	105	85	115			
Silver	0.0210	mg/L	0.0010	105	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0516	mg/L	0.00030	103	85	115			
Sample ID: R08060403-006A	Post Digestion Spike			Run: SUB-C103823			07/07/08 16:11		
Arsenic	0.0525	mg/L	0.0010	103	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Copper	0.0544	mg/L	0.010	97	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Mercury	0.00494	mg/L	0.0010	99	70	130			
Silver	0.00980	mg/L	0.010	49	70	130			S
Thorium 232	0.0427	mg/L	0.0010	85	70	130			
Uranium	0.0497	mg/L	0.00030	98	70	130			
Sample ID: R08060403-006A	Post Digestion Spike Duplicate			Run: SUB-C103823			07/07/08 16:17		
Arsenic	0.0522	mg/L	0.0010	103	70	130	0.6	20	
Cadmium	0.0494	mg/L	0.010	99	70	130	0.8	20	
Copper	0.0539	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0501	mg/L	0.050	100	70	130	0.8	20	
Mercury	0.00502	mg/L	0.0010	100	70	130	1.5	20	
Silver	0.00900	mg/L	0.010	45	70	130	0.0	20	S
Thorium 232	0.0443	mg/L	0.0010	88	70	130	3.7	20	
Uranium	0.0503	mg/L	0.00030	100	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_33393		
Sample ID: MB-33393	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C104002 07/09/08 11:37
Sample ID: LFB-33393	Laboratory Fortified Blank								
Mercury	0.0020	mg/L	0.0010	101	85	115			Run: SUB-C104002 07/09/08 11:39
Sample ID: B08070638-001BMS	Sample Matrix Spike								
Mercury	0.0022	mg/L	0.0010	108	70	130			Run: SUB-C104002 07/09/08 12:07
Sample ID: B08070638-001BMSD	Sample Matrix Spike Duplicate								
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	Run: SUB-C104002 07/09/08 12:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35666		
Sample ID: LFB0806244901-3	Laboratory Fortified Blank				Run: DIONEX_080625A		06/25/08 09:56		
Chloride	4.78	mg/L	0.50	96	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0806244901-4	Laboratory Fortified Blank				Run: DIONEX_080625A		06/25/08 10:13		
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: R08060394-001BMS	Sample Matrix Spike				Run: DIONEX_080625A		06/25/08 10:45		
Chloride	231	mg/L	0.50		80	120			A
Fluoride	2.74	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.56	mg/L	0.10	95	80	120			
Sulfate	56.8	mg/L	1.0	77	80	120			S
Sample ID: R08060394-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080625A		06/25/08 11:02		
Chloride	233	mg/L	0.50		80	120	1.0	10	A
Fluoride	2.62	mg/L	0.10	89	80	120	4.5	10	
Nitrogen, Nitrate as N	2.40	mg/L	0.10	89	80	120	6.5	10	
Sulfate	55.9	mg/L	1.0	71	80	120	1.6	10	S
Sample ID: R08060403-004CMS	Sample Matrix Spike				Run: DIONEX_080625A		06/25/08 14:02		
Chloride	241	mg/L	5.4	88	80	120			
Fluoride	94.5	mg/L	0.56	88	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	817	mg/L	3.4	86	80	120			
Sample ID: R08060403-004CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080625A		06/25/08 14:19		
Chloride	235	mg/L	5.4	86	80	120	2.6	10	
Fluoride	91.9	mg/L	0.56	85	80	120	2.8	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	2.5	10	
Sulfate	798	mg/L	3.4	84	80	120	2.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0479		
Sample ID: MB-GrAB-0479	Method Blank				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	2	pCi/L							
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0479	Laboratory Control Sample				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	130	pCi/L	90	70	130				
Sample ID: Cs137-GrAB-0479	Laboratory Control Sample				Run: SUB-C104549			07/19/08 01:30	
Gross Beta	91	pCi/L	98	70	130				
Sample ID: C08061394-007HMS	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	160	pCi/L	115	70	130				
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	150	pCi/L	107	70	130	7.6	15.2		
Sample ID: C08061394-007HMS	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	93	pCi/L	97	70	130				
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	89	pCi/L	93	70	130	4.2	16		
Method: E901.1							Batch: C_R104392		
Sample ID: LCS-R104392	Laboratory Control Sample				Run: SUB-C104392			07/14/08 11:00	
Cesium 137	450000	pCi/L	20	104	70	130			
Cobalt 60	330000	pCi/L	20	104	70	130			
Sample ID: MB-R104392	Method Blank				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L							U
Sample ID: R08060403-0061	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19014		
Sample ID: C08061333-004IMS Radium 226	Sample Matrix Spike 140	pCi/L		92	70	130			07/15/08 21:56
Sample ID: C08061333-004IMSD Radium 226	Sample Matrix Spike Duplicate 150	pCi/L		95	70	130	3.6	24.2	07/15/08 21:56
Sample ID: LCS-19014 Radium 226	Laboratory Control Sample 13	pCi/L		94	70	130			07/16/08 01:53
Sample ID: MB-19014 Radium 226	Method Blank -2	pCi/L							07/16/08 01:53 U
Method: E903.0							Batch: C_RA226-2910		
Sample ID: C08060835-001AMS Radium 226	Sample Matrix Spike 12	pCi/L		94	70	130			07/09/08 08:06
Sample ID: C08060835-001AMSD Radium 226	Sample Matrix Spike Duplicate 12	pCi/L		88	70	130	5.8	24.8	07/09/08 08:06
Sample ID: MB-RA226-2910 Radium 226	Method Blank -0.2	pCi/L							07/09/08 12:50 U
Sample ID: LCS-RA226-2910 Radium 226	Laboratory Control Sample 7.3	pCi/L		95	70	130			07/09/08 12:50
Method: E907.0							Batch: C_19014		
Sample ID: C08061394-007IMS Thorium 230	Sample Matrix Spike 21.4	pCi/L	0.20	92	70	130			07/11/08 17:06
Sample ID: C08061394-007IMSD Thorium 230	Sample Matrix Spike Duplicate 19.9	pCi/L	0.20	90	70	130	7.4	30	07/11/08 17:07
Sample ID: LCS-19014 Thorium 230	Laboratory Control Sample 46.6	pCi/L	0.20	98	70	130			07/11/08 17:07
Sample ID: MB-19014 Thorium 230	Method Blank -0.08	pCi/L							07/11/08 17:07 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0571		
Sample ID: LCS-RA-TH-ISO-0571 Thorium 230	Laboratory Control Sample 6.31 pCi/L		0.20	103	70	130			07/21/08 21:24
Run: SUB-C104913									
Sample ID: C08061333-002HMS Thorium 230	Sample Matrix Spike 15.3 pCi/L		0.20	94	70	130			07/21/08 21:24
Run: SUB-C104913									
Sample ID: C08061333-002HMSD Thorium 230	Sample Matrix Spike Duplicate 16.6 pCi/L		0.20	103	70	130	8.4	30	07/21/08 21:24
Run: SUB-C104913									
Sample ID: MB-RA-TH-ISO-0571 Thorium 230	Method Blank 0.03 pCi/L								07/23/08 22:41 U
Run: SUB-C104913									
Method: E909.0M							Batch: C_19014		
Sample ID: C08061394-001IMS Lead 210	Sample Matrix Spike 150 pCi/L			52	70	130			07/08/08 06:20 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: C08061394-001IMSD Lead 210	Sample Matrix Spike Duplicate 230 pCi/L			78	70	130	38	30	07/08/08 06:20 R
Run: SUB-C105485									
Sample ID: MB-R105485 Lead 210	Method Blank 4 pCi/L								07/08/08 06:20 U
Run: SUB-C105485									
Sample ID: LCS-R105485 Lead 210	Laboratory Control Sample 140 pCi/L			115	70	130			07/08/08 06:20
Run: SUB-C105485									
Method: E909.0M							Batch: C_R105221		
Sample ID: R08060403-003J Lead 210	Sample Duplicate 3.6 pCi/L						280	30	07/10/08 10:10 UR
Run: SUB-C105221									
Sample ID: R08060403-001J Lead 210	Sample Matrix Spike 480 pCi/L			82	70	130			07/10/08 10:10
Run: SUB-C105221									
Sample ID: R08060403-001J Lead 210	Sample Matrix Spike Duplicate 560 pCi/L			94	70	130	14	30	07/10/08 10:10
Run: SUB-C105221									
Sample ID: MB-R105221 Lead 210	Method Blank 2 pCi/L								07/10/08 10:10 U
Run: SUB-C105221									
Sample ID: LCS-R105221 Lead 210	Laboratory Control Sample 94 pCi/L			78	70	130			07/10/08 10:10
Run: SUB-C105221									

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_19014		
Sample ID: C08061292-001BMS	Sample Matrix Spike				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	18	pCi/L	1.0	124	70	130			
Sample ID: C08061292-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	15	pCi/L	1.0	104	70	130	18	30	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	84	pCi/L	1.0	101	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	1	pCi/L							
Method: RMO-3008							Batch: C_R104448		
Sample ID: R08060403-003J	Sample Matrix Spike				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	79	pCi/L	1.0	91	70	130			
Sample ID: R08060403-003J	Sample Matrix Spike Duplicate				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	60	pCi/L	1.0	69	70	130	28	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: LCS-R104448	Laboratory Control Sample				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	36	pCi/L	1.0	83	70	130			
Sample ID: MB-R104448	Method Blank				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	ND	pCi/L							U
Method: SW7470A							Analytical Run: SUB-C104002		
Sample ID: QCS	Initial Calibration Verification Standard							07/09/08 07:00	
Mercury	0.0020	mg/L	0.0010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Project Name, PWS, Permit, Etc.

Dewey Burdock

Contact Name: **Doretha Dewey Burdock**

Phone/Fax:

Invoice Contact & Phone: **cony.foreman@reper.com**

Invoice Address:

Sample Origin State: **SD**

EP/State Compliance: Yes No

Email:

Sampler: (Please Print) **Eric Kartz**

Special Report/Formats - EI must be notified prior to sample submittal for the following:

- DW A2LA
- GSA EDD/EDT (Electronic Data)
- POTW/WWTP Format: _____
- State: _____ LEVEL IV
- Other: _____ NELAC

Number of Containers
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

*As per quote
 + Pb
 + Po*

SEE ATTACHED
 Normal Turnaround (TAT)

RUSH

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: **All SW**

Shipped by:

Cooler type:

Receipt Temp

On Ice: **10 °C**

Custody Seal: Yes No

Inhibit: **Y**

Signature: **Y**

Method: **Y**

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1 Dew Burd Sub 08	6/23/08	12:20	W
2 Dew Burd Sub 09	6/23/08	12:50	W
3 Dew Burd Sub 06	6/23/08	13:45	W
4 Dew Burd Sub 07	6/23/08	14:30	W
5 Dew Burd Sub 07	6/23/08	14:30	W
6 Dew Burd Sub 11	6/23/08	15:10	W
7 Dew Burd Sub 10	6/23/08	16:25	W
8			
9			
10			

LABORATORY USE ONLY

Requested by (print): **Eric Kartz** Date/Time: **6/24/08 05:45** Signature: **[Signature]**

Requisitioned by (print): **[Signature]** Date/Time: **6/24/08 05:45** Signature: **[Signature]**

Received by (print): **[Signature]** Date/Time: **6/24/08 05:45** Signature: **[Signature]**

Received by Laboratory: **[Signature]** Date/Time: **6/24/08 05:45** Signature: **[Signature]**

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 02, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070340 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070340-001	DewBurd PSC01	07/18/08 12:40	07/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08070340-002	DewBurd PSC02	07/18/08 14:25	07/19/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.



Summary Report: Page 1 of 1



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070340

Date: 02-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/19/2008 2:00:00 PM. These samples were assigned ELI Workorder Number R08070340.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Nitrates were run out of hold due to the date the samples were received, short notice of receiving date, and the analyst responsible for running the samples being unavailable.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08071003

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08071003



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-001
 Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
 Collection Date: 07/18/08 12:40
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	3700	CFU/100ml	D	100		100	A9222 D	07/19/08 14:20/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	62	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Bicarbonate as HCO3	76	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Calcium	459	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 19:21/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 19:21/jmh
Magnesium	12.5	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	07/21/08 13:33/jmh
Nitrogen, Nitrate as N	0.6	mg/L	H	0.1		1	E300.0	07/21/08 19:21/jmh
Potassium	7	mg/L		1		2	E200.7	08/04/08 15:00/eli-c
Silica	1.7	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Sodium	2.6	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Sulfate	977	mg/L	D	3		50	E300.0	07/21/08 18:31/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1750	umhos/cm		5.0		1	A2510 B	07/22/08 09:57/tb
pH	7.24	s.u.		0.01		1	A4500-H B	07/22/08 09:19/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/25/08 08:17/ADM
Solids, Suspended Sediment SSC @ 105 C	4490	mg/L		5		1	D3977	07/28/08 10:10/mb
Solids, Total Dissolved TDS @ 180 C	1600	mg/L		5		1	A2540 C	07/23/08 11:44/mb
Solids, Total Suspended TSS @ 105 C	3700	mg/L		5		1	A2540 D	07/21/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Chromium	0.02	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 01:54/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	08/04/08 15:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Nickel	0.03	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 1 of 8
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-001
 Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
 Collection Date: 07/18/08 12:40
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Uranium	0.0050	mg/L		0.0003		1	E200.8	08/05/08 01:54/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
METALS - SUSPENDED								
Thorium 232	0.001	mg/L		0.001		1	E200.8	07/27/08 05:27/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	07/27/08 05:27/eli-c
METALS - TOTAL								
Aluminum	85.9	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Arsenic	0.031	mg/L		0.001		1	E200.8	08/04/08 20:02/eli-c
Barium	0.8	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Chromium	0.17	mg/L		0.05		2	E200.7	07/25/08 21:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	07/19/08 00:00/mb
Chromium, Trivalent	0.17	mg/L		0.01		1	Calculation	09/25/08 00:00/jmh
Copper	0.10	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Iron	128	mg/L	D	0.2		2	E200.7	07/25/08 21:33/eli-c
Lead	0.074	mg/L		0.001		1	E200.8	08/04/08 20:02/eli-c
Manganese	2.55	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Nickel	0.15	mg/L		0.05		2	E200.7	07/25/08 21:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Thorium 232	0.020	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Uranium	0.0252	mg/L		0.0003		1	E200.8	08/04/08 20:02/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Zinc	0.34	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Calcium	664	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Magnesium	164	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Potassium	46.1	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Silica	49.2	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Sodium	3	mg/L	D	1		2	E200.7	07/25/08 21:33/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/11/08 16:36/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 13:55/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-001
 Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
 Collection Date: 07/18/08 12:40
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	08/11/08 16:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	2.2	pCi/L	U			1	E909.0M	08/11/08 10:51/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	08/19/08 01:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/20/08 17:24/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	08/20/08 17:24/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.9	pCi/L	U			1	E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	08/11/08 11:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	08/10/08 17:23/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/10/08 17:23/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.5	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Alpha precision (±)	6.9	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Alpha MDC	10.7	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta	1.4	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta MDC	11.5	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Gamma	0	pCi/L	U	20.0		1	E901.1	08/08/08 07:23/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-001
 Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
 Collection Date: 07/18/08 12:40
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Gross Gamma precision (±)	20	pCi/L					1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Lead 210	3	pCi/L	U				1	E909.0M	09/24/08 17:25/eli-c
Lead 210 precision (±)	8	pCi/L					1	E909.0M	09/24/08 17:25/eli-c
Lead 210 MDC	14	pCi/L					1	E909.0M	09/24/08 17:25/eli-c
Polonium 210	1.0	pCi/L	U	1.0			1	RMO-3008	09/24/08 17:25/eli-c
Polonium 210 precision (±)	0.77	pCi/L					1	RMO-3008	09/24/08 17:25/eli-c
Radium 226	0.2	pCi/L	U				1	E903.0	09/24/08 17:25/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	09/24/08 17:25/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	09/24/08 17:25/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	09/24/08 17:25/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/24/08 17:25/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0002			1	E245.1	07/29/08 12:11/eli-b
DATA QUALITY									
A/C Balance (± 5)	5.55	%					1	A1030 E	09/25/08 00:00/jmh
Anions	21.7	meq/L					1	A1030 E	09/25/08 00:00/jmh
Cations	24.2	meq/L					1	A1030 E	09/25/08 00:00/jmh
Solids, Total Dissolved Calculated	1510	mg/L					1	A1030 E	09/25/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07						1	A1030 E	09/25/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-002
 Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
 Collection Date: 07/18/08 14:25
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	7500	CFU/100ml	D	100		100	A9222 D	07/19/08 14:20/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	60	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Bicarbonate as HCO3	73	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Calcium	439	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 19:54/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 19:54/jmh
Magnesium	10.1	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/21/08 13:37/jmh
Nitrogen, Nitrate as N	0.6	mg/L	H	0.1		1	E300.0	07/21/08 19:54/jmh
Potassium	6	mg/L		1		2	E200.7	08/04/08 15:08/eli-c
Silica	1.8	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Sodium	1.7	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Sulfate	909	mg/L	D	3		50	E300.0	07/21/08 19:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm		5.0		1	A2510 B	07/22/08 09:58/tb
pH	7.34	s.u.		0.01		1	A4500-H B	07/22/08 09:20/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/25/08 08:17/ADM
Solids, Suspended Sediment SSC @ 105 C	2370	mg/L		5		1	D3977	07/28/08 10:12/mb
Solids, Total Dissolved TDS @ 180 C	1500	mg/L		5		1	A2540 C	07/23/08 11:45/mb
Solids, Total Suspended TSS @ 105 C	2000	mg/L		5		1	A2540 D	07/21/08 15:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Barium	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 02:01/eli-c
Iron	ND	mg/L		0.03		2	E200.7	08/04/08 15:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Manganese	0.03	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-002
 Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
 Collection Date: 07/18/08 14:25
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	08/05/08 02:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
METALS - SUSPENDED								
Thorium 232	0.002	mg/L		0.001		1	E200.8	07/27/08 05:31/eli-c
Uranium	0.0009	mg/L		0.0003		1	E200.8	07/27/08 05:31/eli-c
METALS - TOTAL								
Aluminum	58.7	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Arsenic	0.018	mg/L		0.001		1	E200.8	08/04/08 20:09/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Chromium	0.10	mg/L		0.05		2	E200.7	07/25/08 21:49/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	07/19/08 00:00/mb
Chromium, Trivalent	0.10	mg/L		0.01		1	Calculation	09/25/08 00:00/jmh
Copper	0.06	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Iron	75.7	mg/L		0.03		2	E200.7	07/25/08 21:49/eli-c
Lead	0.040	mg/L		0.001		1	E200.8	08/04/08 20:09/eli-c
Manganese	1.48	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Nickel	0.09	mg/L		0.05		2	E200.7	07/25/08 21:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Thorium 232	0.012	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Uranium	0.0057	mg/L		0.0007		1	E200.8	08/04/08 20:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Zinc	0.19	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Calcium	516	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Magnesium	97.7	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Potassium	30.1	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Silica	51.9	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/25/08 21:49/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/11/08 16:42/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:05/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-002
 Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
 Collection Date: 07/18/08 14:25
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	08/11/08 16:59/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	1.7	pCi/L	U			1	E909.0M	08/11/08 10:51/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	08/19/08 01:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/20/08 17:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	08/20/08 17:24/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.8	pCi/L	U			1	E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	08/11/08 11:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/10/08 17:23/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/10/08 17:23/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	4.2	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Alpha precision (±)	5.7	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Alpha MDC	9.0	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta	-7	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Beta precision (±)	5.4	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta MDC	9.2	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Gamma	0	pCi/L	U	20.0		1	E901.1	08/08/08 07:23/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070340-002
 Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
 Collection Date: 07/18/08 14:25
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Gross Gamma precision (±)	20	pCi/L				1 E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Lead 210	0	pCi/L	U			1 E909.0M	09/24/08 17:25/eli-c
Lead 210 precision (±)	8	pCi/L				1 E909.0M	09/24/08 17:25/eli-c
Lead 210 MDC	14	pCi/L				1 E909.0M	09/24/08 17:25/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1 RMO-3008	09/24/08 17:25/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1 RMO-3008	09/24/08 17:25/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	09/24/08 17:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	09/24/08 17:25/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/24/08 17:25/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	09/24/08 17:25/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	09/24/08 17:25/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.0002		1 E245.1	07/29/08 12:23/eli-b
DATA QUALITY							
A/C Balance (± 5)	6.31	%				1 A1030 E	09/25/08 00:00/jmh
Anions	20.2	meq/L				1 A1030 E	09/25/08 00:00/jmh
Cations	23.0	meq/L				1 A1030 E	09/25/08 00:00/jmh
Solids, Total Dissolved Calculated	1410	mg/L				1 A1030 E	09/25/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1 A1030 E	09/25/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080722A-ALK-SEL-W		
Sample ID: LCS1_080722A	Laboratory Control Sample					Run: PH_COND1-R_080722A			07/22/08 08:58
Alkalinity, Total as CaCO3	948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080722A	Method Blank					Run: PH_COND1-R_080722A			07/22/08 08:59
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B							Batch: 080722_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080722	Laboratory Control Sample					Run: PH_COND2-R_080722C			07/22/08 09:53
Conductivity @ 25 C	1430	umhos/cm	5.0	101	90	110			
Sample ID: LCS1-1_080722	Laboratory Control Sample					Run: PH_COND2-R_080722C			07/22/08 09:54
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080722	Laboratory Control Sample					Run: PH_COND2-R_080722C			07/22/08 09:55
Conductivity @ 25 C	5140	umhos/cm	5.0	103	90	110			
Sample ID: MBLK-1_080722	Method Blank					Run: PH_COND2-R_080722C			07/22/08 09:56
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08070357-001BDUP	Sample Duplicate					Run: PH_COND2-R_080722C			07/22/08 10:07
Conductivity @ 25 C	666	umhos/cm	5.0				0.9	10	
Method: A2540 C							Batch: 080723A-SLDS-TDS-W		
Sample ID: LCS1_080723A	Laboratory Control Sample					Run: BAL-4-R_080724B			07/23/08 11:36
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080723A	Method Blank					Run: BAL-4-R_080724B			07/23/08 11:37
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08070340-001CMS	Sample Matrix Spike					Run: BAL-4-R_080724B			07/24/08 00:00
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	96	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080724B			07/24/08 00:00
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	110	80	120	1.5	10	
Method: A2540 D							Batch: 080721A-SLDS-TSS-W		
Sample ID: LCS1_080721A	Laboratory Control Sample					Run: BAL-4-R_080721B			07/21/08 14:54
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: MBLK1_080721A	Method Blank					Run: BAL-4-R_080721B			07/21/08 14:55
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08070340-002CDUP	Sample Duplicate					Run: BAL-4-R_080721B			07/21/08 15:06
Solids, Total Suspended TSS @ 105 C	2100	mg/L	5.0				4.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080811B		
Sample ID: MBLK	Method Blank					Run: SUB-C105689			08/11/08 13:51
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample					Run: SUB-C105689			08/11/08 13:53
Selenium-IV	0.053	mg/L	0.0010	107	90	110			
Sample ID: R08070340-001A	Sample Matrix Spike					Run: SUB-C105689			08/11/08 14:00
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08070340-001A	Sample Matrix Spike Duplicate					Run: SUB-C105689			08/11/08 14:02
Selenium-IV	0.049	mg/L	0.0010	97	85	115	2.6	10	
Sample ID: R08070340-001H	Sample Matrix Spike					Run: SUB-C105689			08/11/08 14:17
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08070340-001H	Sample Matrix Spike Duplicate					Run: SUB-C105689			08/11/08 14:19
Selenium-IV	0.050	mg/L	0.0010	100	85	115	0.6	10	
Method: A3114 B							Batch: C_SE3114-080811C		
Sample ID: MBLK	Method Blank					Run: SUB-C105710			08/11/08 16:23
Selenium	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample					Run: SUB-C105710			08/11/08 16:32
Selenium	0.054	mg/L	0.0010	107	90	110			
Sample ID: R08070340-001A	Sample Matrix Spike					Run: SUB-C105710			08/11/08 16:38
Selenium	0.054	mg/L	0.0010	108	85	115			
Sample ID: R08070340-001A	Sample Matrix Spike Duplicate					Run: SUB-C105710			08/11/08 16:40
Selenium	0.054	mg/L	0.0010	107	85	115	0.9	10	
Sample ID: R08070340-001H	Sample Matrix Spike					Run: SUB-C105710			08/11/08 16:55
Selenium	0.052	mg/L	0.0010	105	85	115			
Sample ID: R08070340-001H	Sample Matrix Spike Duplicate					Run: SUB-C105710			08/11/08 16:57
Selenium	0.052	mg/L	0.0010	105	85	115	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B							Batch: 080719-CR-HEX-W		
Sample ID: MBLK	Method Blank				Run: SPEC1_080719B			07/19/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080719B			07/19/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R08070340-001E	Sample Matrix Spike				Run: SPEC1_080719B			07/19/08 00:00	
Chromium, Hexavalent	0.17	mg/L	0.0050	85	80	120			
Sample ID: R08070340-002E	Sample Matrix Spike				Run: SPEC1_080719B			07/19/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Method: A4500-H B							Batch: 080722_1_PH-W		
Sample ID: LCS_pH-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722A			07/22/08 09:14	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08070352-003CDUP	Sample Duplicate				Run: PH_COND2-R_080722A			07/22/08 09:33	
pH	7.83	s.u.	0.010				0	1.25	
Method: A4500-NH3 G							Batch: A2008-07-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080721A			07/21/08 10:11	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080721A			07/21/08 10:12	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080721A			07/21/08 10:13	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	90	110			
Sample ID: R08070340-002FMS	Sample Matrix Spike				Run: TECHAA2-R_080721A			07/21/08 13:38	
Nitrogen, Ammonia as N	0.44	mg/L	0.10	115	80	120			
Sample ID: R08070340-002FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080721A			07/21/08 13:39	
Nitrogen, Ammonia as N	0.43	mg/L	0.10	113	80	120	1.1	10	
Method: A9222 D							Batch: 080719-BCT-FCB-W-MF		
Sample ID: MBLK	Method Blank				Run: MEMFILT_080717B			07/19/08 14:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/01/08

Project: Edgemont

Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19227		
Sample ID: MB-19227	Method Blank			Run: SUB-C104879			07/25/08 20:57		
Aluminum	0.004	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	ND	mg/L	0.005						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19227	Laboratory Control Sample			Run: SUB-C104879			07/25/08 21:01		
Aluminum	2.32	mg/L	0.10	93	85	115			
Barium	0.491	mg/L	0.10	98	85	115			
Boron	0.486	mg/L	0.10	97	85	115			
Chromium	0.487	mg/L	0.050	97	85	115			
Copper	0.488	mg/L	0.010	98	85	115			
Iron	2.51	mg/L	0.030	100	85	115			
Manganese	2.47	mg/L	0.010	99	85	115			
Molybdenum	0.487	mg/L	0.10	97	85	115			
Nickel	0.483	mg/L	0.050	97	85	115			
Vanadium	0.431	mg/L	0.10	86	85	115			
Zinc	0.488	mg/L	0.010	98	85	115			
Calcium	25.3	mg/L	1.0	101	85	115			
Magnesium	25.0	mg/L	1.0	100	85	115			
Potassium	24.6	mg/L	1.0	98	85	115			
Silica	5.25	mg/L	0.10	105	85	115			
Sodium	24.2	mg/L	1.0	97	85	115			
Sample ID: C08071066-001HMS3	Sample Matrix Spike			Run: SUB-C104879			07/25/08 22:22		
Aluminum	3.03	mg/L	0.10	109	70	130			
Barium	0.568	mg/L	0.10	102	70	130			
Boron	0.673	mg/L	0.10	105	70	130			
Chromium	0.507	mg/L	0.050	101	70	130			
Copper	0.527	mg/L	0.010	105	70	130			
Iron	3.13	mg/L	0.030	109	70	130			
Manganese	2.77	mg/L	0.010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19227		
Sample ID: C08071066-001HMS3	Sample Matrix Spike			Run: SUB-C104879			07/25/08 22:22		
Molybdenum	0.517	mg/L	0.10	103	70	130			
Nickel	0.514	mg/L	0.050	100	70	130			
Vanadium	0.502	mg/L	0.10	100	70	130			
Zinc	0.801	mg/L	0.010	106	70	130			
Calcium	186	mg/L	1.0		70	130			A
Magnesium	73.9	mg/L	1.0	109	70	130			
Potassium	36.9	mg/L	1.0	99	70	130			
Silica	14.0	mg/L	0.10	123	70	130			
Sodium	89.3	mg/L	1.1	113	70	130			
Sample ID: C08071066-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104879			07/25/08 22:26		
Aluminum	2.75	mg/L	0.10	98	70	130	9.7	20	
Barium	0.561	mg/L	0.10	101	70	130	1.2	20	
Boron	0.650	mg/L	0.10	101	70	130	3.5	20	
Chromium	0.494	mg/L	0.050	99	70	130	2.6	20	
Copper	0.509	mg/L	0.010	102	70	130	3.4	20	
Iron	3.06	mg/L	0.030	106	70	130	2.1	20	
Manganese	2.72	mg/L	0.010	101	70	130	1.7	20	
Molybdenum	0.507	mg/L	0.10	101	70	130	1.8	20	
Nickel	0.497	mg/L	0.050	97	70	130	3.5	20	
Vanadium	0.469	mg/L	0.10	94	70	130	6.8	20	
Zinc	0.778	mg/L	0.010	102	70	130	2.9	20	
Calcium	185	mg/L	1.0		70	130	0.9	20	A
Magnesium	73.9	mg/L	1.0	109	70	130	0	20	
Potassium	37.6	mg/L	1.0	102	70	130	1.9	20	
Silica	13.6	mg/L	0.10	116	70	130	2.3	20	
Sodium	87.4	mg/L	1.1	105	70	130	2.1	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R105315		
Sample ID: MB-080804A	Method Blank		Run: SUB-C105315			08/04/08 14:39			
Silica	0.06	mg/L		0.02					
Aluminum	ND	mg/L		0.004					
Barium	ND	mg/L		0.006					
Boron	ND	mg/L		0.008					
Calcium	ND	mg/L		0.1					
Chromium	ND	mg/L		0.002					
Iron	ND	mg/L		0.005					
Magnesium	ND	mg/L		0.04					
Manganese	ND	mg/L		0.0003					
Molybdenum	ND	mg/L		0.003					
Nickel	ND	mg/L		0.004					
Potassium	ND	mg/L		0.02					
Sodium	ND	mg/L		0.8					
Vanadium	0.003	mg/L		0.003					
Zinc	ND	mg/L		0.002					
Sample ID: LFB-080804A	Laboratory Fortified Blank		Run: SUB-C105315			08/04/08 14:43			
Silica	0.50	mg/L	0.10	111	85	125			
Aluminum	1.0	mg/L	0.10	102	85	125			
Barium	1.0	mg/L	0.10	104	85	125			
Boron	1.0	mg/L	0.10	104	85	125			
Calcium	57	mg/L	0.50	114	85	125			
Chromium	1.0	mg/L	0.050	105	85	125			
Iron	1.1	mg/L	0.030	114	85	125			
Magnesium	56	mg/L	0.50	112	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.1	mg/L	0.10	112	85	125			
Zinc	1.1	mg/L	0.010	106	85	125			
Sample ID: C08070127-001BMS2	Sample Matrix Spike		Run: SUB-C105315			08/04/08 14:51			
Aluminum	9.78	mg/L	0.10	98	70	130			
Barium	10.1	mg/L	0.10	100	70	130			
Boron	12.6	mg/L	0.10	100	70	130			
Chromium	10.0	mg/L	0.050	100	70	130			
Iron	10.9	mg/L	0.047	109	70	130			
Manganese	10.2	mg/L	0.010	102	70	130			
Molybdenum	9.81	mg/L	0.10	98	70	130			
Nickel	9.96	mg/L	0.050	100	70	130			
Vanadium	10.7	mg/L	0.10	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R105315		
Sample ID: C08070127-001BMS2	Sample Matrix Spike		Run: SUB-C105315				08/04/08 14:51		
Zinc	10.2	mg/L	0.022	102	70	130			
Calcium	723	mg/L	1.1	110	70	130			
Magnesium	599	mg/L	1.0	109	70	130			
Potassium	513	mg/L	1.0	92	70	130			
Silica	10.8	mg/L	0.21	106	70	130			
Sodium	1190	mg/L	7.7	100	70	130			
Sample ID: C08070127-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C105315				08/04/08 14:56		
Aluminum	9.32	mg/L	0.10	93	70	130	4.8	20	
Barium	10.0	mg/L	0.10	99	70	130	1.1	20	
Boron	12.6	mg/L	0.10	100	70	130	0	20	
Chromium	9.92	mg/L	0.050	99	70	130	1.1	20	
Iron	10.6	mg/L	0.047	106	70	130	3.2	20	
Manganese	9.90	mg/L	0.010	99	70	130	2.9	20	
Molybdenum	9.74	mg/L	0.10	97	70	130	0.7	20	
Nickel	9.80	mg/L	0.050	98	70	130	1.5	20	
Vanadium	10.6	mg/L	0.10	106	70	130	1	20	
Zinc	9.93	mg/L	0.022	99	70	130	2.4	20	
Calcium	713	mg/L	1.1	108	70	130	1.4	20	
Magnesium	591	mg/L	1.0	107	70	130	1.4	20	
Potassium	514	mg/L	1.0	92	70	130	0.2	20	
Silica	10.8	mg/L	0.21	106	70	130	0.3	20	
Sodium	1210	mg/L	7.7	104	70	130	1.4	20	
Method: E200.7_8							Batch: C_19227		
Sample ID: MB-19227	Method Blank		Run: SUB-C105327				08/04/08 19:15		
Arsenic	0.0007	mg/L	0.0002						
Cadmium	ND	mg/L	8E-05						
Lead	ND	mg/L	3E-05						
Silver	ND	mg/L	9E-05						
Thorium 232	0.0002	mg/L	6E-05						
Uranium	0.0007	mg/L	4E-05						
Sample ID: LCS3-19227	Laboratory Control Sample		Run: SUB-C105327				08/04/08 19:49		
Arsenic	0.483	mg/L	0.0020	96	85	115			
Cadmium	0.241	mg/L	0.010	96	85	115			
Lead	0.483	mg/L	0.050	97	85	115			
Silver	0.0469	mg/L	0.010	94	85	115			
Thorium 232	0.493	mg/L	0.0010	99	85	115			
Uranium	0.494	mg/L	0.00040	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19227		
Sample ID: C08071066-001HMS3	Sample Matrix Spike		Run: SUB-C105327			08/04/08 20:43			
Arsenic	0.503	mg/L	0.0010	101	70	130			
Cadmium	0.246	mg/L	0.0010	98	70	130			
Lead	0.511	mg/L	0.0010	102	70	130			
Silver	0.0474	mg/L	0.010	119	70	130			
Thorium 232	0.541	mg/L	0.0010	108	70	130			
Uranium	0.633	mg/L	0.00030	110	70	130			
Sample ID: C08071066-001HMSD3	Sample Matrix Spike Duplicate		Run: SUB-C105327			08/04/08 21:17			
Arsenic	0.501	mg/L	0.0010	100	70	130	0.3	20	
Cadmium	0.250	mg/L	0.0010	99	70	130	1.7	20	
Lead	0.512	mg/L	0.0010	102	70	130	0.2	20	
Silver	0.0479	mg/L	0.010	120	70	130	1.1	20	
Thorium 232	0.538	mg/L	0.0010	108	70	130	0.4	20	
Uranium	0.630	mg/L	0.00030	109	70	130	0.5	20	
Method: E200.8							Batch: C_19232		
Sample ID: MB-19232	Method Blank		Run: SUB-C104868			07/27/08 04:58			
Thorium 232	0.0004	mg/L							
Uranium	6E-05	mg/L							
Sample ID: LCS1-19232	Laboratory Control Sample		Run: SUB-C104868			07/27/08 05:15			
Thorium 232	0.0487	mg/L	0.0010	92	80	120			
Uranium	0.0467	mg/L	0.00030	89	80	120			
Sample ID: C08071003-002KMS4	Post Digestion Spike		Run: SUB-C104868			07/27/08 05:35			
Thorium 232	0.0132	mg/L	0.0010	94	70	130			
Uranium	0.0128	mg/L	0.00030	95	70	130			
Sample ID: C08071003-002KMSD4	Post Digestion Spike Duplicate		Run: SUB-C104868			07/27/08 05:39			
Thorium 232	0.0131	mg/L	0.0010	93	70	130	0.6	20	
Uranium	0.0128	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105327		
Sample ID: LRB	Method Blank		Run: SUB-C105327				08/04/08 12:41		
Arsenic	ND	mg/L		6E-05					
Cadmium	ND	mg/L		1E-05					
Copper	ND	mg/L		7E-05					
Lead	ND	mg/L		3E-05					
Mercury	ND	mg/L		8E-05					
Silver	ND	mg/L		3E-05					
Thorium 232	ND	mg/L		4E-05					
Uranium	ND	mg/L		1E-05					
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105327				08/04/08 12:47		
Arsenic	0.0525	mg/L	0.0010	105	85	115			
Cadmium	0.0523	mg/L	0.0010	105	85	115			
Copper	0.0533	mg/L	0.0010	107	85	115			
Lead	0.0534	mg/L	0.0010	107	85	115			
Mercury	0.00543	mg/L	0.0010	108	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Thorium 232	0.0528	mg/L	0.0010	106	85	115			
Uranium	0.0531	mg/L	0.00030	106	85	115			
Sample ID: C08071011-006BMS4	Post Digestion Spike		Run: SUB-C105327				08/05/08 02:48		
Arsenic	0.0525	mg/L	0.0010	104	70	130			
Cadmium	0.0499	mg/L	0.010	99	70	130			
Copper	0.0485	mg/L	0.010	93	70	130			
Lead	0.0518	mg/L	0.050	101	70	130			
Mercury	0.00523	mg/L	0.0010	105	70	130			
Silver	0.0159	mg/L	0.010	79	70	130			
Thorium 232	0.0516	mg/L	0.0010	103	70	130			
Uranium	0.107	mg/L	0.00030	107	70	130			
Sample ID: C08071011-006BMSD4	Post Digestion Spike Duplicate		Run: SUB-C105327				08/05/08 03:22		
Arsenic	0.0531	mg/L	0.0010	105	70	130	1.1	20	
Cadmium	0.0503	mg/L	0.010	99	70	130	0.7	20	
Copper	0.0502	mg/L	0.010	97	70	130	3.5	20	
Lead	0.0518	mg/L	0.050	101	70	130	0.1	20	
Mercury	0.00515	mg/L	0.0010	103	70	130	1.6	20	
Silver	0.0145	mg/L	0.010	73	70	130	8.7	20	
Thorium 232	0.0521	mg/L	0.0010	104	70	130	0.9	20	
Uranium	0.108	mg/L	0.00030	109	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33735		
Sample ID: MB-33735	Method Blank					Run: SUB-B114848			07/29/08 11:25
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank					Run: SUB-B114848			07/29/08 11:32
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike					Run: SUB-B114848			07/29/08 12:18
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B114848			07/29/08 12:21
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	
Method: E300.0							Batch: R36265		
Sample ID: LFB0807215435-3	Laboratory Fortified Blank					Run: DIONEX_080721A			07/21/08 17:59
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank					Run: DIONEX_080721A			07/21/08 18:15
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070340-001CMS	Sample Matrix Spike					Run: DIONEX_080721A			07/21/08 18:48
Chloride	252	mg/L	5.4	95	80	120			
Fluoride	107	mg/L	0.56	107	80	120			
Nitrogen, Nitrate as N	123	mg/L	1.3	99	80	120			
Sulfate	1620	mg/L	3.4	85	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080721A			07/21/08 19:04
Chloride	241	mg/L	5.4	90	80	120	4.2	10	
Fluoride	102	mg/L	0.56	102	80	120	4.2	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	95	80	120	4.2	10	
Sulfate	1590	mg/L	3.4	82	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0510		
Sample ID: MB-GrAB-0510	Method Blank				Run: SUB-C107110			09/04/08 06:47	
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0510	Laboratory Control Sample				Run: SUB-C107110			09/04/08 06:47	
Gross Alpha	120	pCi/L		87	70	130			
Sample ID: Cs137-GrAB-0510	Laboratory Control Sample				Run: SUB-C107110			09/04/08 06:47	
Gross Beta	77	pCi/L		84	70	130			
Sample ID: C08070835-001AMS	Sample Matrix Spike				Run: SUB-C107110			09/04/08 18:47	
Gross Alpha	128	pCi/L		92	70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C107110			09/04/08 18:47	
Gross Alpha	121	pCi/L		88	70	130	5.2	16.7	
Sample ID: C08070835-001AMS	Sample Matrix Spike				Run: SUB-C107110			09/04/08 18:47	
Gross Beta	76.3	pCi/L		86	70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C107110			09/04/08 18:47	
Gross Beta	74.2	pCi/L		84	70	130	2.8	16.1	
Method: E901.1							Batch: C_R105938		
Sample ID: LCS-R105938	Laboratory Control Sample				Run: SUB-C105938			08/08/08 07:23	
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L							
Sample ID: C08071122-003IDUP	Sample Duplicate				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19232		
Sample ID: R08070244-010I	Sample Matrix Spike				Run: SUB-C105907			08/11/08 09:37	
Radium 226	44	pCi/L		100	70	130			
Sample ID: R08070244-010I	Sample Matrix Spike Duplicate				Run: SUB-C105907			08/11/08 09:37	
Radium 226	43	pCi/L		97	70	130	2.1	24.1	
Sample ID: MB-19232	Method Blank				Run: SUB-C105907			08/11/08 11:25	
Radium 226	-1	pCi/L							U
Sample ID: LCS-19232	Laboratory Control Sample				Run: SUB-C105907			08/11/08 14:02	
Radium 226	86	pCi/L		104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3003		
Sample ID: C08070969-001DMS Radium 226	Sample Matrix Spike 14	pCi/L		84	70	130			08/19/08 00:04
Sample ID: C08070969-001DMSD Radium 226	Sample Matrix Spike Duplicate 15	pCi/L		94	70	130	10	26.1	08/19/08 00:04
Sample ID: MB-RA226-3003 Radium 226	Method Blank -0.1	pCi/L							08/19/08 08:44 U
Sample ID: LCS-RA226-3003 Radium 226	Laboratory Control Sample 8.2	pCi/L		106	70	130			08/19/08 08:44
Method: E907.0							Batch: C_19232		
Sample ID: C08071003-001KMS Thorium 230	Sample Matrix Spike 22.3	pCi/L	0.20	96	70	130			08/10/08 17:23
Sample ID: C08071003-001KMSD Thorium 230	Sample Matrix Spike Duplicate 21.3	pCi/L	0.20	90	70	130	4.3	30	08/10/08 17:23
Sample ID: LCS-19232 Thorium 230	Laboratory Control Sample 45.0	pCi/L	0.20	88	70	130			08/10/08 17:23
Sample ID: MB-19232 Thorium 230	Method Blank 0.1	pCi/L							08/10/08 21:35 U
Method: E907.0							Batch: C_RA-TH-ISO-0601		
Sample ID: LCS-RA-TH-ISO-0601 Thorium 230	Laboratory Control Sample 6.02	pCi/L	0.20	99	70	130			08/21/08 08:57
Sample ID: C08070904-016DMS Thorium 230	Sample Matrix Spike 12.5	pCi/L	0.20	102	70	130			08/21/08 09:09
Sample ID: C08070904-016DMSD Thorium 230	Sample Matrix Spike Duplicate 12.5	pCi/L	0.20	102	70	130	0	30	08/21/08 09:10
Sample ID: MB-RA-TH-ISO-0601 Thorium 230	Method Blank -0.04	pCi/L							08/20/08 21:32 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_19232		
Sample ID: C08070935-001FMS	Sample Matrix Spike					Run: SUB-C106570			08/11/08 09:30
Lead 210	1200	pCi/L	100		70	130			
Sample ID: C08070935-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106570			08/11/08 09:30
Lead 210	1300	pCi/L	107		70	130	7.4	30	
Sample ID: MB-R106570	Method Blank					Run: SUB-C106570			08/11/08 09:30
Lead 210	1	pCi/L							U
Sample ID: LCS-R106570	Laboratory Control Sample					Run: SUB-C106570			08/11/08 09:30
Lead 210	140	pCi/L	117		70	130			
Method: E909.0M							Batch: C_R106578		
Sample ID: C08070869-003EMS	Sample Matrix Spike					Run: SUB-C106578			08/11/08 10:51
Lead 210	600	pCi/L	102		70	130			
Sample ID: C08070869-003EMSD	Sample Matrix Spike Duplicate					Run: SUB-C106578			08/11/08 10:51
Lead 210	540	pCi/L	92		70	130	10	30	
Sample ID: R08070340-001J	Sample Duplicate					Run: SUB-C106578			08/11/08 10:51
Lead 210	4.6	pCi/L					71	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R106578	Method Blank					Run: SUB-C106578			08/11/08 10:51
Lead 210	6	pCi/L							U
Sample ID: LCS-R106578	Laboratory Control Sample					Run: SUB-C106578			08/11/08 10:51
Lead 210	100	pCi/L	83		70	130			
Method: RMO-3008							Batch: C_19232		
Sample ID: C08071003-002KMS	Sample Matrix Spike					Run: SUB-C105985			08/08/08 16:32
Polonium 210	39	pCi/L	1.0	95	70	130			
Sample ID: C08071003-002KMSD	Sample Matrix Spike Duplicate					Run: SUB-C105985			08/08/08 16:32
Polonium 210	44	pCi/L	1.0	109	70	130	13	30	
Sample ID: LCS-19232	Laboratory Control Sample					Run: SUB-C105985			08/08/08 16:32
Polonium 210	86	pCi/L	1.0	105	70	130			
Sample ID: MB-19232	Method Blank					Run: SUB-C105985			08/08/08 16:32
Polonium 210	0.6	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R106673		
Sample ID: C08071095-001EMS Polonium 210	Sample Matrix Spike 53 pCi/L		1.0	93	70	130			08/21/08 17:30
Sample ID: C08071095-001EMSD Polonium 210	Sample Matrix Spike Duplicate 47 pCi/L		1.0	83	70	130	12	30	08/21/08 17:30
Sample ID: LCS-R106673 Polonium 210	Laboratory Control Sample 43 pCi/L		1.0	77	70	130			08/21/08 17:30
Sample ID: MB-R106673 Polonium 210	Method Blank 0.4 pCi/L								08/21/08 17:30 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Projectek DB RESPEC		Project Name, PWS, Permit, Etc: Projectek DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman	Phone/Fax: respec.com	Email:	Sampler: (Please Print) Eric Korte
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1 Dew Burd UNTO1		7/12/08		SEE ATTACHED	
2 Dew Burd PSC01		7/12/08	12:40	Normal Turnaround (TAT)	
3 Dew Burd PSC02		7/12/08	14:25	R U S H	
4				Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
5				Comments:	
6				On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7				Receipt Temp: 5.1 °C	
8				Shipped by:	
9				Cooler Dye:	
10				Custody Seal Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Custody Record		Reimquisitioned by (print): Eric Korte	Date/Time: 7/17/08 06:50	Signature: [Signature]	Received by Laboratory: Theresa Bilsma
Signed		Sample Disposal:	Return to Client:	Lab Disposal:	Date/Time: 07-19-08 14:00
					Signature: [Signature]

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

08070340-01
002



**** REPORT ****

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701



ANALYTICAL SUMMARY REPORT

September 10, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070342 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070342-001	DewBurd UNT01	07/18/08 0:00	07/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



Date: 10-Sep-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070342

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08071121

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

ANALYSIS COMMENTS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all Radiochemical analyses.

End of comments imported for SUBBED Workorder: C08071121



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070342-001
 Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
 Collection Date: 07/18/08
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5			1	A2320 B 07/22/08 10:32/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B 07/22/08 10:32/mb
Bicarbonate as HCO3	ND	mg/L		5			1	A2320 B 07/22/08 10:32/mb
Calcium	51.6	mg/L		0.5			1	E200.7 08/07/08 19:07/eli-c
Chloride	1	mg/L		1			1	E300.0 07/21/08 20:26/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0 07/21/08 20:26/jmh
Magnesium	22.4	mg/L		0.5			1	E200.7 08/07/08 19:07/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G 07/30/08 12:05/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1			1	E300.0 07/21/08 20:26/jmh
Potassium	8	mg/L		1			1	E200.7 08/07/08 19:07/eli-c
Silica	0.8	mg/L		0.5			1	E200.7 08/07/08 19:07/eli-c
Sodium	2.5	mg/L		0.5			1	E200.7 08/07/08 19:07/eli-c
Sulfate	278	mg/L	D	3			50	E300.0 07/21/08 20:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	536	umhos/cm		5.0			1	A2510 B 07/22/08 09:59/tb
pH	4.91	s.u.		0.01			1	A4500-H B 07/22/08 09:22/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10			1	Calculation 09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	291	mg/L		5			1	D3977 07/24/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	380	mg/L		5			1	A2540 C 07/23/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	290	mg/L		5			1	A2540 D 07/21/08 15:07/mb
METALS - DISSOLVED								
Aluminum	0.4	mg/L		0.1			1	E200.8 08/06/08 17:04/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8 08/05/08 19:34/eli-c
Barium	ND	mg/L		0.1			1	E200.8 08/05/08 19:34/eli-c
Boron	ND	mg/L		0.1			1	E200.7 08/07/08 19:07/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8 08/05/08 19:34/eli-c
Chromium	ND	mg/L		0.01			1	E200.8 08/05/08 19:34/eli-c
Copper	ND	mg/L		0.01			1	E200.8 08/05/08 19:34/eli-c
Iron	0.05	mg/L		0.03			1	E200.7 08/07/08 19:07/eli-c
Lead	ND	mg/L		0.001			1	E200.8 08/05/08 19:34/eli-c
Manganese	3.87	mg/L		0.01			1	E200.8 08/05/08 19:34/eli-c
Mercury	ND	mg/L		0.001			1	E200.8 08/05/08 19:34/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8 08/05/08 19:34/eli-c
Nickel	0.09	mg/L		0.01			1	E200.8 08/05/08 19:34/eli-c
Silver	ND	mg/L		0.005			1	E200.8 08/06/08 17:04/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8 08/05/08 19:34/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8 08/05/08 19:34/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070342-001
 Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
 Collection Date: 07/18/08
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 08/05/08 19:34/eli-c
Zinc	0.06	mg/L		0.01		1	E200.8 08/05/08 19:34/eli-c
METALS - SUSPENDED							
Thorium 232	0.002	mg/L		0.001		1	E200.8 08/14/08 16:27/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/29/08 18:31/eli-c
METALS - TOTAL							
Aluminum	8.1	mg/L		0.1		2	E200.7 08/04/08 18:37/eli-c
Arsenic	0.030	mg/L		0.001		10	E200.8 08/01/08 01:41/eli-c
Barium	ND	mg/L		0.1		10	E200.8 08/01/08 01:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7 08/04/08 18:37/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8 08/01/08 01:41/eli-c
Chromium	ND	mg/L		0.05		10	E200.8 08/01/08 01:41/eli-c
Copper	0.01	mg/L		0.01		10	E200.8 08/01/08 01:41/eli-c
Iron	8.93	mg/L		0.03		2	E200.7 08/04/08 18:37/eli-c
Lead	0.008	mg/L		0.001		10	E200.8 08/01/08 01:41/eli-c
Manganese	5.06	mg/L		0.01		10	E200.8 08/01/08 01:41/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8 08/01/08 01:41/eli-c
Nickel	0.11	mg/L		0.05		10	E200.8 08/01/08 01:41/eli-c
Silver	ND	mg/L		0.005		10	E200.8 08/01/08 12:24/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8 08/01/08 12:24/eli-c
Uranium	0.0009	mg/L		0.0003		10	E200.8 08/01/08 01:41/eli-c
Vanadium	0.2	mg/L	D	0.2		10	E200.8 08/01/08 01:41/eli-c
Zinc	0.09	mg/L		0.01		10	E200.8 08/01/08 01:41/eli-c
Calcium	59.2	mg/L		0.5		2	E200.7 08/04/08 18:37/eli-c
Magnesium	24.8	mg/L		0.5		2	E200.7 08/04/08 18:37/eli-c
Potassium	10.1	mg/L		0.5		2	E200.7 08/04/08 18:37/eli-c
Silica	12.5	mg/L		0.5		2	E200.7 08/04/08 18:37/eli-c
Sodium	2	mg/L	D	1		2	E200.7 08/04/08 18:37/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.005		1	A3114 B 08/15/08 15:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B 08/15/08 11:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.2	pCi/L	U			1	E903.0 08/20/08 09:09/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 08/20/08 09:09/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070342-001
 Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
 Collection Date: 07/18/08
 Date Received: 07/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	0.03	pCi/L	U				1	E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	08/13/08 12:12/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	6.1	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Alpha precision (±)	1.4	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Alpha MDC	1.6	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Beta	12.6	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Beta precision (±)	2.2	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Beta MDC	3.3	pCi/L					1	E900.0	08/24/08 15:05/eli-c
Gross Gamma	221	pCi/L		20.0			1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	83.3	pCi/L					1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	0.3	pCi/L	U				1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	09/01/08 12:46/eli-c
Thorium 230	-0.02	pCi/L	U	0.2			1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0002			1	E245.1	07/29/08 12:25/eli-b
DATA QUALITY									
A/C Balance (± 5)	-7.33	%					1	A1030 E	09/05/08 00:00/jmh
Anions	5.89	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	5.09	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	369	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	09/05/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080722A-ALK-SEL-W		
Sample ID: LCS1_080722A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080722A 07/22/08 08:58
Sample ID: MBLK1_080722A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080722A 07/22/08 08:59
Method: A2510 B							Batch: 080722_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080722 Conductivity @ 25 C	Laboratory Control Sample 1430	umhos/cm	5.0	101	90	110			Run: PH_COND2-R_080722C 07/22/08 09:53
Sample ID: LCS1-1_080722 Conductivity @ 25 C	Laboratory Control Sample 153	umhos/cm	5.0	102	90	110			Run: PH_COND2-R_080722C 07/22/08 09:54
Sample ID: LCS2-1_080722 Conductivity @ 25 C	Laboratory Control Sample 5140	umhos/cm	5.0	103	90	110			Run: PH_COND2-R_080722C 07/22/08 09:55
Sample ID: MBLK-1_080722 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080722C 07/22/08 09:56
Sample ID: R08070357-001BDUP Conductivity @ 25 C	Sample Duplicate 666	umhos/cm	5.0				0.9	10	Run: PH_COND2-R_080722C 07/22/08 10:07
Method: A2540 C							Batch: 080723A-SLDS-TDS-W		
Sample ID: LCS1_080723A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_080724B 07/23/08 11:36
Sample ID: MBLK1_080723A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080724B 07/23/08 11:37
Sample ID: R08070340-001CMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1800	mg/L	5.0	96	80	120			Run: BAL-4-R_080724B 07/24/08 00:00
Sample ID: R08070340-001CMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1800	mg/L	5.0	110	80	120	1.5	10	Run: BAL-4-R_080724B 07/24/08 00:00
Method: A2540 D							Batch: 080721A-SLDS-TSS-W		
Sample ID: LCS1_080721A Solids, Total Suspended TSS @ 105 C	Laboratory Control Sample 190	mg/L	5.0	97	85	115			Run: BAL-4-R_080721B 07/21/08 14:54
Sample ID: MBLK1_080721A Solids, Total Suspended TSS @ 105 C	Method Blank ND	mg/L	2						Run: BAL-4-R_080721B 07/21/08 14:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-0808015A		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C105972			08/15/08 11:38
Sample ID: 288-121-5 Selenium-IV	Laboratory Control Sample 0.049 mg/L		0.0010	98	90	110			08/15/08 11:40
Sample ID: C08071121-001AMS Selenium-IV	Sample Matrix Spike 0.055 mg/L		0.0010	109	85	115			08/15/08 11:46
Sample ID: C08071121-001AMSD Selenium-IV	Sample Matrix Spike Duplicate 0.057 mg/L		0.0010	113	85	115	4.0	10	08/15/08 11:48
Method: A3114 B							Batch: C_SE3114-0808015B		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C105991			08/15/08 15:10
Sample ID: 288-121-5 Selenium	Laboratory Control Sample 0.047 mg/L		0.0010	95	90	110			08/15/08 15:20
Sample ID: C08071121-001AMS Selenium	Sample Matrix Spike 0.047 mg/L		0.0010	91	85	115			08/15/08 15:24
Sample ID: C08071121-001AMSD Selenium	Sample Matrix Spike Duplicate 0.048 mg/L		0.0010	93	85	115	2.1	15	08/15/08 15:26
Method: A4500-H B							Batch: 080722_1_PH-W		
Sample ID: LCS_pH-1_080722 pH	Laboratory Control Sample 6.85 s.u.		0.010	100	98.55	101.45			07/22/08 09:14
Sample ID: R08070352-003CDUP pH	Sample Duplicate 7.83 s.u.		0.010			Run: PH_COND2-R_080722A	0.0	1.25	07/22/08 09:33

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-30_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080730A		07/30/08 11:56
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	102	90	110	Run: TECHAA2-R_080730A		07/30/08 11:58
Sample ID: R08070342-001FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.66	mg/L	0.10	102	80	120	Run: TECHAA2-R_080730A		07/30/08 12:06
Sample ID: R08070342-001FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.65	mg/L	0.10	99	80	120	Run: TECHAA2-R_080730A	0.9	07/30/08 12:07 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19243		
Sample ID: MB-19243	Method Blank		Run: SUB-C105315			08/04/08 18:29			
Aluminum	0.007	mg/L	0.002						
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19243	Laboratory Control Sample		Run: SUB-C105315			08/04/08 18:33			
Aluminum	2.55	mg/L	0.10	102	85	115			
Boron	0.528	mg/L	0.10	102	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Calcium	27.0	mg/L	1.0	108	85	115			
Magnesium	26.4	mg/L	1.0	106	85	115			
Potassium	25.9	mg/L	1.0	104	85	115			
Silica	5.57	mg/L	0.10	111	85	115			
Sodium	26.3	mg/L	1.0	105	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike		Run: SUB-C105315			08/04/08 19:02			
Aluminum	2.59	mg/L	0.10	101	70	130			
Boron	0.792	mg/L	0.10	106	70	130			
Iron	3.18	mg/L	0.030	110	70	130			
Calcium	29.9	mg/L	1.0	112	70	130			
Magnesium	27.6	mg/L	1.0	109	70	130			
Potassium	26.4	mg/L	1.0	103	70	130			
Sodium	396	mg/L	1.1		70	130			A
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate		Run: SUB-C105315			08/04/08 19:06			
Aluminum	2.44	mg/L	0.10	95	70	130	6.0	20	
Boron	0.738	mg/L	0.10	95	70	130	7.1	20	
Iron	2.88	mg/L	0.030	98	70	130	9.8	20	
Calcium	27.4	mg/L	1.0	102	70	130	8.7	20	
Magnesium	25.4	mg/L	1.0	100	70	130	8.2	20	
Potassium	25.5	mg/L	1.0	99	70	130	3.5	20	
Sodium	386	mg/L	1.1		70	130	2.7	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R105567		
Sample ID: MB	Method Blank			Run: SUB-C105567			08/07/08 15:40		
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.03						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	0.2	mg/L	0.1						
Silica	ND	mg/L	0.02						
Sodium	ND	mg/L	0.2						
Sample ID: R08070343-003A	Sample Matrix Spike			Run: SUB-C105567			08/07/08 19:25		
Boron	0.668	mg/L	0.10	107	70	130			
Iron	0.569	mg/L	0.031	114	70	130			
Calcium	526	mg/L	1.0		70	130			A
Magnesium	76.2	mg/L	1.0	104	70	130			
Silica	2.20	mg/L	0.10		70	130			A
Sodium	63.1	mg/L	1.0	108	70	130			
Sample ID: R08070343-003A	Sample Matrix Spike Duplicate			Run: SUB-C105567			08/07/08 19:29		
Boron	0.678	mg/L	0.10	109	70	130	1.5	20	
Iron	0.559	mg/L	0.031	112	70	130	1.8	20	
Calcium	518	mg/L	1.0		70	130	1.6	20	A
Magnesium	74.9	mg/L	1.0	102	70	130	1.7	20	
Silica	2.22	mg/L	0.10	-9	70	130	0.7	20	S
Sodium	62.0	mg/L	1.0	106	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19243		
Sample ID: MB-19243	Method Blank		Run: SUB-C105162			08/01/08 01:28			
Arsenic	0.02	mg/L	4E-05						
Barium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.007	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Vanadium	0.1	mg/L	0.0007						
Zinc	0.001	mg/L	0.0007						
Sample ID: LCS3-19243	Laboratory Control Sample		Run: SUB-C105162			08/01/08 01:35			
Arsenic	0.570	mg/L	0.0010	109	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Cadmium	0.271	mg/L	0.010	108	85	115			
Chromium	0.533	mg/L	0.050	105	85	115			
Copper	0.530	mg/L	0.010	106	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.86	mg/L	0.010	114	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.529	mg/L	0.050	106	85	115			
Silver	0.0343	mg/L	0.010	69	85	115			S
Uranium	0.557	mg/L	0.00030	112	85	115			
Vanadium	0.772	mg/L	0.10	133	85	115			S
Zinc	0.538	mg/L	0.010	107	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike		Run: SUB-C105162			08/01/08 04:45			
Arsenic	0.569	mg/L	0.0010	109	70	130			
Barium	0.587	mg/L	0.10	105	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.542	mg/L	0.050	107	70	130			
Copper	0.542	mg/L	0.010	108	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Manganese	2.83	mg/L	0.010	113	70	130			
Molybdenum	0.503	mg/L	0.10	101	70	130			
Nickel	0.532	mg/L	0.050	106	70	130			
Silver	0.0337	mg/L	0.010	67	70	130			S
Uranium	0.546	mg/L	0.00030	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19243		
Sample ID: C08071182-001CMS3	Sample Matrix Spike			Run: SUB-C105162			08/01/08 04:45		
Vanadium	0.799	mg/L	0.10	112	70	130			
Zinc	0.540	mg/L	0.010	107	70	130			
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105162			08/01/08 04:52		
Arsenic	0.538	mg/L	0.0010	103	70	130	5.6	20	
Barium	0.561	mg/L	0.10	100	70	130	4.5	20	
Cadmium	0.248	mg/L	0.010	99	70	130	5.7	20	
Chromium	0.512	mg/L	0.050	101	70	130	5.7	20	
Copper	0.510	mg/L	0.010	102	70	130	6.1	20	
Lead	0.480	mg/L	0.050	96	70	130	3.8	20	
Manganese	2.69	mg/L	0.010	107	70	130	5.0	20	
Molybdenum	0.483	mg/L	0.10	97	70	130	4.0	20	
Nickel	0.504	mg/L	0.050	101	70	130	5.5	20	
Silver	0.0359	mg/L	0.010	72	70	130	6.2	20	
Uranium	0.521	mg/L	0.00030	104	70	130	4.6	20	
Vanadium	0.748	mg/L	0.10	102	70	130	6.6	20	
Zinc	0.524	mg/L	0.010	103	70	130	3.1	20	
Method: E200.8							Batch: C_19254		
Sample ID: MB-19254	Method Blank			Run: SUB-C105957			08/14/08 16:14		
Thorium 232	0.0006	mg/L							
Uranium	1E-05	mg/L							
Sample ID: LCS1-19254	Laboratory Control Sample			Run: SUB-C105957			08/14/08 16:21		
Thorium 232	0.0484	mg/L	0.0010	91	80	120			
Uranium	0.0513	mg/L	0.00030	97	80	120			
Sample ID: R08070343-003K	Post Digestion Spike			Run: SUB-C105957			08/14/08 17:17		
Thorium 232	0.180	mg/L	0.0010	99	70	130			
Uranium	0.182	mg/L	0.00030	106	70	130			
Sample ID: R08070343-003K	Post Digestion Spike Duplicate			Run: SUB-C105957			08/14/08 17:24		
Thorium 232	0.180	mg/L	0.0010	99	70	130	0.0	20	
Uranium	0.182	mg/L	0.00030	106	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: LRB	Method Blank		Run: SUB-C105384			08/05/08 13:12			
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105384			08/05/08 13:18			
Arsenic	0.0564	mg/L	0.0010	113	85	115			
Barium	0.0559	mg/L	0.0010	112	85	115			
Cadmium	0.0557	mg/L	0.0010	111	85	115			
Chromium	0.0537	mg/L	0.0010	107	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0563	mg/L	0.0010	113	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00558	mg/L	0.0010	112	85	115			
Molybdenum	0.0564	mg/L	0.0010	113	85	115			
Nickel	0.0574	mg/L	0.0010	115	85	115			
Thorium 232	0.0538	mg/L	0.0010	108	85	115			
Uranium	0.0543	mg/L	0.00030	109	85	115			
Vanadium	0.0531	mg/L	0.0010	106	85	115			
Zinc	0.0579	mg/L	0.0010	116	85	115			
Sample ID: C08071095-005BMS4	Post Digestion Spike		Run: SUB-C105384			08/05/08 19:08			
Arsenic	0.0597	mg/L	0.0010	110	70	130			
Barium	0.191	mg/L	0.10	105	70	130			
Cadmium	0.0518	mg/L	0.010	104	70	130			
Chromium	0.0499	mg/L	0.050	100	70	130			
Copper	0.0573	mg/L	0.010	104	70	130			
Lead	0.0542	mg/L	0.050	108	70	130			
Manganese	0.279	mg/L	0.010		70	130			A
Mercury	0.00535	mg/L	0.0010	107	70	130			
Molybdenum	0.0543	mg/L	0.10	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: C08071095-005BMS4	Post Digestion Spike			Run: SUB-C105384			08/05/08 19:08		
Nickel	0.0557	mg/L	0.050	104	70	130			
Thorium 232	0.0521	mg/L	0.0010	104	70	130			
Uranium	0.0590	mg/L	0.00030	108	70	130			
Vanadium	0.0515	mg/L	0.10	100	70	130			
Zinc	0.0576	mg/L	0.010	105	70	130			
Sample ID: C08071095-005BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105384			08/05/08 19:14		
Arsenic	0.0585	mg/L	0.0010	107	70	130	2.1	20	
Barium	0.194	mg/L	0.10	111	70	130	1.5	20	
Cadmium	0.0518	mg/L	0.010	104	70	130	0.1	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0.0	20	
Copper	0.0563	mg/L	0.010	102	70	130	1.8	20	
Lead	0.0530	mg/L	0.050	105	70	130	2.1	20	
Manganese	0.279	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00525	mg/L	0.0010	105	70	130	1.8	20	
Molybdenum	0.0549	mg/L	0.10	104	70	130	0.0	20	
Nickel	0.0549	mg/L	0.050	102	70	130	1.5	20	
Thorium 232	0.0512	mg/L	0.0010	102	70	130	1.8	20	
Uranium	0.0575	mg/L	0.00030	105	70	130	2.5	20	
Vanadium	0.0519	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.0568	mg/L	0.010	103	70	130	1.3	20	
Method: E200.8							Batch: C_R105472		
Sample ID: LRB	Method Blank			Run: SUB-C105472			08/06/08 12:39		
Aluminum	ND	mg/L	0.0001						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105472			08/06/08 12:46		
Aluminum	0.0484	mg/L	0.0010	97	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Sample ID: C08071183-003BMS4	Post Digestion Spike			Run: SUB-C105472			08/06/08 18:32		
Aluminum	0.141	mg/L	0.10	110	70	130			
Silver	0.0158	mg/L	0.010	79	70	130			
Sample ID: C08071183-003BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105472			08/06/08 18:39		
Aluminum	0.138	mg/L	0.10	104	70	130	2.1	20	
Silver	0.0159	mg/L	0.010	79	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_33735
Sample ID: MB-33735	Method Blank								07/29/08 11:25
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank								07/29/08 11:32
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike								07/29/08 12:18
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate								07/29/08 12:21
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36265		
Sample ID: LFB0807215435-3	Laboratory Fortified Blank			Run: DIONEX_080721A			07/21/08 17:59		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank			Run: DIONEX_080721A			07/21/08 18:15		
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070340-001CMS	Sample Matrix Spike			Run: DIONEX_080721A			07/21/08 18:48		
Chloride	252	mg/L	5.4	95	80	120			
Fluoride	107	mg/L	0.56	107	80	120			
Nitrogen, Nitrate as N	123	mg/L	1.3	99	80	120			
Sulfate	1620	mg/L	3.4	85	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080721A			07/21/08 19:04		
Chloride	241	mg/L	5.4	90	80	120	4.2	10	
Fluoride	102	mg/L	0.56	102	80	120	4.2	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	95	80	120	4.2	10	
Sulfate	1590	mg/L	3.4	82	80	120	1.4	10	
Sample ID: R08070343-002CMS	Sample Matrix Spike			Run: DIONEX_080721A			07/21/08 22:05		
Chloride	249	mg/L	5.4	93	80	120			
Fluoride	106	mg/L	0.56	106	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Sulfate	1880	mg/L	3.4	88	80	120			
Sample ID: R08070343-002CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080721A			07/21/08 22:21		
Chloride	242	mg/L	5.4	91	80	120	2.6	10	
Fluoride	103	mg/L	0.56	103	80	120	2.4	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.4	10	
Sulfate	1850	mg/L	3.4	83	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0505		
Sample ID: MB-GrAB-0505	Method Blank								
Gross Alpha	0.1	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0505	Laboratory Control Sample								
Gross Alpha	130	pCi/L	91	70	130				
Sample ID: Cs137-GrAB-0505	Laboratory Control Sample								
Gross Beta	100	pCi/L	108	70	130				
Sample ID: C08071011-001AMS	Sample Matrix Spike								
Gross Alpha	140	pCi/L	101	70	130				
Sample ID: C08071011-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	130	pCi/L	92	70	130	9.4	16.3		
Sample ID: C08071011-001AMS	Sample Matrix Spike								
Gross Beta	110	pCi/L	113	70	130				
Sample ID: C08071011-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	110	pCi/L	120	70	130	5.3	16.1		
Method: E901.1							Batch: C_R105938		
Sample ID: LCS-R105938	Laboratory Control Sample								
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank								
Gross Gamma		pCi/L							
Sample ID: R08070343-0031	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/10/08
 Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19254		
Sample ID: C08071121-001KMS Radium 226	Sample Matrix Spike 34	pCi/L		90	70	130			08/13/08 12:12
Sample ID: C08071121-001KMSD Radium 226	Sample Matrix Spike Duplicate 34	pCi/L		92	70	130	1.5	24.8	08/13/08 12:12
Sample ID: MB-19254 Radium 226	Method Blank -1	pCi/L							08/13/08 13:55 U
Sample ID: LCS-19254 Radium 226	Laboratory Control Sample 69	pCi/L		89	70	130			08/13/08 13:55
Method: E903.0							Batch: C_RA226-3011		
Sample ID: MB-RA226-3011 Radium 226	Method Blank -0.3	pCi/L							08/20/08 12:53 U
Sample ID: LCS-RA226-3011 Radium 226	Laboratory Control Sample 7.6	pCi/L		101	70	130			08/20/08 12:53
Sample ID: C08071121-001JMS Radium 226	Sample Matrix Spike 17	pCi/L		107	70	130			08/20/08 12:53
Sample ID: C08071121-001JMSD Radium 226	Sample Matrix Spike Duplicate 18	pCi/L		112	70	130	4.8	29.5	08/20/08 12:53
Method: E907.0							Batch: C_19254		
Sample ID: C08071010-002EMS Thorium 230	Sample Matrix Spike 24.2	pCi/L	0.20	100	70	130			08/06/08 10:30
Sample ID: C08071010-002EMSD Thorium 230	Sample Matrix Spike Duplicate 24.4	pCi/L	0.20	104	70	130	0.7	30	08/06/08 10:30
Sample ID: LCS-19254 Thorium 230	Laboratory Control Sample 50.1	pCi/L	0.20	103	70	130			08/06/08 10:30
Sample ID: MB-19254 Thorium 230	Method Blank 0.1	pCi/L							08/06/08 10:30 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R106559		
Sample ID: LCS-R106559	Laboratory Control Sample					Run: SUB-C106559			08/18/08 14:00
Thorium 230	6.36	pCi/L	0.20	104	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike					Run: SUB-C106559			08/18/08 14:00
Thorium 230	14.5	pCi/L	0.20	90	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike Duplicate					Run: SUB-C106559			08/18/08 14:00
Thorium 230	15.4	pCi/L	0.20	96	70	130	6.0	30	
Sample ID: MB-R106559	Method Blank					Run: SUB-C106559			08/18/08 14:00
Thorium 230	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **Robert DB RESPEC**
 Report Mail Address: **Robert DB**
 Contact Name: **Robert DB**
 Phone/Fax: **Cory.foren@erespec.com**
 Invoice Address: _____
 Invoice Contact & Phone: _____
 Sample Origin: **SD**
 State: **SD**
 Email: _____
 EPA/State Compliance: Yes No
 Sampler: (Please Print) **Eric Kantz**
 Quote/Bottle Order: _____

Special Report/Formats - ELL must be notified prior to sample submittal for the following:

- DW A2LA
- GSA EDD/EDT (Electronic Data)
- POTW/WWTP Format: _____
- State: _____ LEVEL IV
- Other: _____ NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)

Number of Containers
 Sample Type: AWS V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

Custody Record MUST be Signed	Requested by (print): Requested by (print):	Date/Time	Signature	Received by (print): Received by (print):	Date/Time	Signature	Matrix	Collection Date	Collection Time	ANALYSIS REQUESTED				Purchase Order:	Quote/Bottle Order:
										SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Comments:		
	Eric Kantz	7/19/08	[Signature]	Thomas Bluma	07-19-08 14:00	[Signature]	W	7/12/08	12:40						
	Eric Kantz	7/19/08	[Signature]	Thomas Bluma	07-19-08 14:00	[Signature]	W	7/11/08	13:40						
	Eric Kantz	7/18/08	[Signature]	Thomas Bluma	07-19-08 14:00	[Signature]	W	7/18/08	14:25						

Handwritten notes: All per spec

Comments: Sample Split into Proper Containers in Lab. SF

Shipped by: _____
 Cooler ID(s): _____
 Receipt Temp: **5.1** °C
 On Ice: Yes No
 Custody Seal: Y N
 Intact: Y N
 Signature Match: Y N

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

September 12, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070343 Quote ID: R286


Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 7/21/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070343-001	DewBurd PSC01-2	07/18/08 0:00	07/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08070343-002	DewBurd PSC02-1	07/18/08 0:00	07/21/08	Aqueous	Same As Above
R08070343-003	DewBurd PSC02-2	07/18/08 0:00	07/21/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070343

Date: 12-Sep-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/21/2008 9:15:00 AM. These samples were assigned ELI Workorder Number R08070343.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08071122

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

ANALYSIS COMMENTS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all Radiochemical analyses.

End of comments imported for SUBBED Workorder: C08071122



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-001
 Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	104	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Bicarbonate as HCO3	127	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Calcium	422	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 20:59/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 20:59/jmh
Magnesium	20.3	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	07/30/08 12:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/21/08 20:59/jmh
Potassium	10	mg/L		1		2	E200.7	09/09/08 20:34/eli-c
Silica	5.2	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Sodium	4	mg/L	D	2		2	E200.7	09/09/08 20:34/eli-c
Sulfate	1040	mg/L	D	3		50	E300.0	07/21/08 20:43/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1710	umhos/cm		5.0		1	A2510 B	07/22/08 10:01/tb
pH	7.12	s.u.		0.01		1	A4500-H B	07/22/08 09:24/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	9760	mg/L		5		1	D3977	07/28/08 10:13/mb
Solids, Total Dissolved TDS @ 180 C	1600	mg/L		5		1	A2540 C	07/23/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	12000	mg/L		5		1	A2540 D	07/21/08 15:07/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	08/06/08 17:11/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Barium	0.3	mg/L		0.1		1	E200.8	08/05/08 19:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/09/08 20:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 19:41/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	09/09/08 20:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Manganese	0.81	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	08/05/08 19:41/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/06/08 17:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 19:41/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8	08/05/08 19:41/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-001
 Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	08/05/08 19:41/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	08/05/08 19:41/eli-c
METALS - SUSPENDED									
Thorium 232	0.038	mg/L		0.001			5	E200.8	08/14/08 16:33/eli-c
Uranium	0.0131	mg/L		0.0003			5	E200.8	07/29/08 18:35/eli-c
METALS - TOTAL									
Aluminum	233	mg/L		0.1			2	E200.7	08/04/08 18:45/eli-c
Arsenic	0.073	mg/L		0.001			10	E200.8	08/01/08 01:48/eli-c
Barium	1.2	mg/L		0.1			10	E200.8	08/01/08 01:48/eli-c
Boron	0.6	mg/L		0.1			2	E200.7	08/04/08 18:45/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	08/01/08 01:48/eli-c
Chromium	0.34	mg/L		0.05			10	E200.8	08/01/08 01:48/eli-c
Copper	0.21	mg/L		0.01			10	E200.8	08/01/08 01:48/eli-c
Iron	253	mg/L	D	0.2			2	E200.7	08/04/08 18:45/eli-c
Lead	0.144	mg/L		0.001			10	E200.8	08/01/08 01:48/eli-c
Manganese	6.34	mg/L		0.01			10	E200.8	08/01/08 01:48/eli-c
Molybdenum	ND	mg/L		0.1			10	E200.8	08/01/08 01:48/eli-c
Nickel	0.33	mg/L		0.05			10	E200.8	08/01/08 01:48/eli-c
Silver	ND	mg/L		0.005			10	E200.8	08/01/08 12:30/eli-c
Thorium 232	0.042	mg/L		0.005			10	E200.8	08/01/08 12:30/eli-c
Uranium	0.0206	mg/L		0.0003			10	E200.8	08/01/08 01:48/eli-c
Vanadium	0.5	mg/L	D	0.2			10	E200.8	08/01/08 01:48/eli-c
Zinc	0.73	mg/L		0.01			10	E200.8	08/01/08 01:48/eli-c
Calcium	949	mg/L		0.5			2	E200.7	08/04/08 18:45/eli-c
Magnesium	387	mg/L		0.5			2	E200.7	08/04/08 18:45/eli-c
Potassium	87.5	mg/L		0.5			2	E200.7	08/04/08 18:45/eli-c
Silica	64.0	mg/L		0.5			2	E200.7	08/04/08 18:45/eli-c
Sodium	6	mg/L	D	1			2	E200.7	08/04/08 18:45/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium	ND	mg/L		0.005			1	A3114 B	08/15/08 15:28/eli-c
Selenium-IV	ND	mg/L		0.001			1	A3114 B	08/15/08 11:50/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED									
Radium 226	0.3	pCi/L					1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/20/08 09:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-001
 Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - DISSOLVED								
Radium 226 MDC	0.3	pCi/L					1 E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1 E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1 E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	7.1	pCi/L					1 E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	0.8	pCi/L					1 E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.4	pCi/L					1 E903.0	08/13/08 12:12/eli-c
Thorium 230	4.2	pCi/L		0.2			1 E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	1.6	pCi/L					1 E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	7.0	pCi/L	U				1 E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	8.8	pCi/L					1 E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	13.8	pCi/L					1 E900.0	08/29/08 13:21/eli-c
Gross Beta	12.8	pCi/L	U				1 E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	11.1	pCi/L					1 E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	18.2	pCi/L					1 E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0			1 E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L					1 E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	7.4	pCi/L					1 E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	0.8	pCi/L					1 E903.0	09/01/08 12:46/eli-c
Thorium 230	4.2	pCi/L		0.2			1 E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	1.6	pCi/L					1 E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002			1 E245.1	07/29/08 12:28/eli-b
DATA QUALITY								
A/C Balance (± 5)	-4.89	%					1 A1030 E	09/05/08 00:00/jmh
Anions	23.7	meq/L					1 A1030 E	09/05/08 00:00/jmh
Cations	21.5	meq/L					1 A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1530	mg/L					1 A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06						1 A1030 E	09/05/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-002
 Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	106	mg/L		5		1	A2320 B 07/22/08 10:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/22/08 10:41/mb
Bicarbonate as HCO3	129	mg/L		5		1	A2320 B 07/22/08 10:41/mb
Calcium	551	mg/L		0.5		2	E200.7 09/09/08 20:38/eli-c
Chloride	1	mg/L		1		1	E300.0 07/21/08 22:38/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0 07/21/08 22:38/jmh
Magnesium	16.8	mg/L		0.5		2	E200.7 09/09/08 20:38/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G 07/30/08 12:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/21/08 22:38/jmh
Potassium	8	mg/L		1		2	E200.7 09/09/08 20:38/eli-c
Silica	4.8	mg/L		0.5		2	E200.7 09/09/08 20:38/eli-c
Sodium	3	mg/L	D	2		2	E200.7 09/09/08 20:38/eli-c
Sulfate	1220	mg/L	D	3		50	E300.0 07/21/08 21:48/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2000	umhos/cm		5.0		1	A2510 B 07/22/08 10:02/tb
pH	7.21	s.u.		0.01		1	A4500-H B 07/22/08 09:26/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation 09/12/08 12:13/ADM
Solids, Suspended Sediment SSC @ 105 C	35800	mg/L		5		1	D3977 07/28/08 10:14/mb
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C 07/23/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	26000	mg/L		5		1	A2540 D 07/21/08 15:08/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		10	E200.8 08/06/08 17:18/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8 08/05/08 19:48/eli-c
Barium	0.3	mg/L		0.1		1	E200.8 08/05/08 19:48/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/09/08 20:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 08/05/08 19:48/eli-c
Chromium	ND	mg/L		0.01		1	E200.8 08/05/08 19:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8 08/05/08 19:48/eli-c
Iron	0.06	mg/L		0.03		2	E200.7 09/09/08 20:38/eli-c
Lead	ND	mg/L		0.001		1	E200.8 08/05/08 19:48/eli-c
Manganese	0.80	mg/L		0.01		1	E200.8 08/05/08 19:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 08/05/08 19:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 08/05/08 19:48/eli-c
Nickel	ND	mg/L		0.01		1	E200.8 08/05/08 19:48/eli-c
Silver	ND	mg/L		0.005		10	E200.8 08/06/08 17:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 08/05/08 19:48/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8 08/05/08 19:48/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. Page 4 of 9



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-002
 Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	08/05/08 19:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
METALS - SUSPENDED								
Thorium 232	0.132	mg/L		0.001		10	E200.8	08/14/08 17:05/eli-c
Uranium	0.0435	mg/L		0.0003		5	E200.8	07/29/08 18:39/eli-c
METALS - TOTAL								
Aluminum	324	mg/L		0.1		2	E200.7	08/04/08 18:49/eli-c
Arsenic	0.097	mg/L		0.001		10	E200.8	08/01/08 01:55/eli-c
Barium	1.0	mg/L		0.1		10	E200.8	08/01/08 01:55/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	08/04/08 18:49/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	08/01/08 01:55/eli-c
Chromium	0.51	mg/L		0.05		10	E200.8	08/01/08 01:55/eli-c
Copper	0.33	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Iron	337	mg/L	D	0.2		2	E200.7	08/04/08 18:49/eli-c
Lead	0.229	mg/L		0.001		10	E200.8	08/01/08 01:55/eli-c
Manganese	10.8	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	08/01/08 01:55/eli-c
Nickel	0.54	mg/L		0.05		10	E200.8	08/01/08 01:55/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/01/08 12:37/eli-c
Thorium 232	0.051	mg/L		0.005		10	E200.8	08/01/08 12:37/eli-c
Uranium	0.0311	mg/L		0.0003		10	E200.8	08/01/08 01:55/eli-c
Vanadium	0.7	mg/L	D	0.2		10	E200.8	08/01/08 01:55/eli-c
Zinc	1.17	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Calcium	1710	mg/L	D	0.8		10	E200.7	08/14/08 13:24/eli-c
Magnesium	616	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Potassium	106	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Silica	85.4	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Sodium	5	mg/L	D	1		2	E200.7	08/04/08 18:49/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/15/08 15:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/15/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.05	pCi/L	U			1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/20/08 09:09/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 5 of 9
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-002
 Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - DISSOLVED							
Radium 226 MDC	0.3	pCi/L				1 E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED							
Radium 226	21.3	pCi/L				1 E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	1.3	pCi/L				1 E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	08/13/08 12:12/eli-c
Thorium 230	12.6	pCi/L		0.2		1 E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	2.6	pCi/L				1 E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL							
Gross Alpha	14.6	pCi/L	U			1 E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	11.4	pCi/L				1 E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	17.1	pCi/L				1 E900.0	08/29/08 13:21/eli-c
Gross Beta	-9	pCi/L	U			1 E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	13.3	pCi/L				1 E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	22.7	pCi/L				1 E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0		1 E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED							
Radium 226	21.3	pCi/L				1 E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	1.3	pCi/L				1 E903.0	09/01/08 12:46/eli-c
Thorium 230	12.6	pCi/L		0.2		1 E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	2.6	pCi/L				1 E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES							
Mercury	ND	mg/L		0.0002		1 E245.1	07/29/08 12:30/eli-b
DATA QUALITY							
A/C Balance (± 5)	2.96	%				1 A1030 E	09/12/08 00:00/jmh
Anions	27.6	meq/L				1 A1030 E	09/12/08 00:00/jmh
Cations	29.3	meq/L				1 A1030 E	09/12/08 00:00/jmh
Solids, Total Dissolved Calculated	1880	mg/L				1 A1030 E	09/12/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					1 A1030 E	09/12/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-003
 Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	94	mg/L		5			1	A2320 B	07/22/08 10:53/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/22/08 10:53/mb
Bicarbonate as HCO3	115	mg/L		5			1	A2320 B	07/22/08 10:53/mb
Calcium	564	mg/L		0.5			2	E200.7	09/09/08 20:42/eli-c
Chloride	3	mg/L		1			1	E300.0	07/21/08 23:11/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	07/21/08 23:11/jmh
Magnesium	22.4	mg/L		0.5			2	E200.7	09/09/08 20:42/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	07/30/08 12:24/jmh
Nitrogen, Nitrate as N	0.3	mg/L		0.1			1	E300.0	07/21/08 23:11/jmh
Potassium	15	mg/L		1			2	E200.7	09/09/08 20:42/eli-c
Silica	4.7	mg/L		0.5			2	E200.7	09/09/08 20:42/eli-c
Sodium	8	mg/L	D	2			2	E200.7	09/09/08 20:42/eli-c
Sulfate	1420	mg/L	D	3			50	E300.0	07/21/08 22:54/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2220	umhos/cm		5.0			1	A2510 B	07/22/08 10:03/tb
pH	7.16	s.u.		0.01			1	A4500-H B	07/22/08 09:28/tb
Sodium Adsorption Ratio (SAR)	0.10	unitless		0.10			1	Calculation	09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	24800	mg/L		5			1	D3977	07/28/08 10:15/mb
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5			1	A2540 C	07/23/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	20000	mg/L		5			1	A2540 D	07/21/08 15:09/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			10	E200.8	08/06/08 17:24/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	08/05/08 20:22/eli-c
Barium	0.3	mg/L		0.1			1	E200.8	08/05/08 20:22/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/09/08 20:42/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	08/05/08 20:22/eli-c
Chromium	ND	mg/L		0.01			1	E200.8	08/05/08 20:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	08/05/08 20:22/eli-c
Iron	ND	mg/L		0.03			2	E200.7	09/09/08 20:42/eli-c
Lead	ND	mg/L		0.001			1	E200.8	08/05/08 20:22/eli-c
Manganese	0.86	mg/L		0.01			1	E200.8	08/05/08 20:22/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	08/05/08 20:22/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	08/05/08 20:22/eli-c
Nickel	ND	mg/L		0.01			1	E200.8	08/05/08 20:22/eli-c
Silver	ND	mg/L		0.005			10	E200.8	08/06/08 17:24/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	08/05/08 20:22/eli-c
Uranium	0.0172	mg/L		0.0003			1	E200.8	08/05/08 20:22/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-003
 Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1	1	E200.8	08/05/08 20:22/eli-c
Zinc	0.02	mg/L		0.01	1	E200.8	08/05/08 20:22/eli-c
METALS - SUSPENDED							
Thorium 232	0.056	mg/L		0.001	10	E200.8	08/14/08 17:11/eli-c
Uranium	0.0543	mg/L		0.0003	5	E200.8	07/29/08 18:43/eli-c
METALS - TOTAL							
Aluminum	322	mg/L		0.1	2	E200.7	08/04/08 18:54/eli-c
Arsenic	0.107	mg/L		0.001	10	E200.8	08/01/08 02:29/eli-c
Barium	1.1	mg/L		0.1	10	E200.8	08/01/08 02:29/eli-c
Boron	0.9	mg/L		0.1	2	E200.7	08/04/08 18:54/eli-c
Cadmium	ND	mg/L		0.005	10	E200.8	08/01/08 02:29/eli-c
Chromium	0.52	mg/L		0.05	10	E200.8	08/01/08 02:29/eli-c
Copper	0.32	mg/L		0.01	10	E200.8	08/01/08 02:29/eli-c
Iron	356	mg/L	D	0.2	2	E200.7	08/04/08 18:54/eli-c
Lead	0.240	mg/L		0.001	10	E200.8	08/01/08 02:29/eli-c
Manganese	11.4	mg/L		0.01	10	E200.8	08/01/08 02:29/eli-c
Molybdenum	ND	mg/L		0.1	10	E200.8	08/01/08 02:29/eli-c
Nickel	0.51	mg/L		0.05	10	E200.8	08/01/08 02:29/eli-c
Silver	ND	mg/L		0.005	10	E200.8	08/01/08 14:16/eli-c
Thorium 232	0.054	mg/L		0.005	10	E200.8	08/11/08 15:44/eli-c
Uranium	0.0888	mg/L		0.0003	10	E200.8	08/01/08 02:29/eli-c
Vanadium	0.8	mg/L	D	0.2	10	E200.8	08/01/08 02:29/eli-c
Zinc	1.22	mg/L		0.01	10	E200.8	08/01/08 02:29/eli-c
Calcium	1780	mg/L	D	0.8	10	E200.7	08/14/08 13:32/eli-c
Magnesium	607	mg/L		0.5	2	E200.7	08/04/08 18:54/eli-c
Potassium	115	mg/L		0.5	2	E200.7	08/04/08 18:54/eli-c
Silica	84.9	mg/L		0.5	2	E200.7	08/04/08 18:54/eli-c
Sodium	10	mg/L	D	1	2	E200.7	08/04/08 18:54/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium	ND	mg/L		0.005	1	A3114 B	08/15/08 15:33/eli-c
Selenium-IV	ND	mg/L		0.001	1	A3114 B	08/15/08 11:54/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED							
Radium 226	0.6	pCi/L			1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.3	pCi/L			1	E903.0	08/20/08 09:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. Page 8 of 9



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070343-003
 Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
 Collection Date: 07/18/08
 Date Received: 07/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - DISSOLVED									
Radium 226 MDC	0.3	pCi/L					1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED									
Radium 226	24.8	pCi/L					1	E903.0	08/13/08 13:55/eli-c
Radium 226 precision (±)	1.3	pCi/L					1	E903.0	08/13/08 13:55/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	08/13/08 13:55/eli-c
Thorium 230	20.0	pCi/L		0.2			1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	3.6	pCi/L					1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Gross Alpha	33.3	pCi/L					1	E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	16.1	pCi/L					1	E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	22.2	pCi/L					1	E900.0	08/29/08 13:21/eli-c
Gross Beta	-5	pCi/L	U				1	E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	16.2	pCi/L					1	E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	27.3	pCi/L					1	E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0			1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED									
Radium 226	25.4	pCi/L					1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	1.4	pCi/L					1	E903.0	09/01/08 12:46/eli-c
Thorium 230	20.1	pCi/L		0.2			1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	3.6	pCi/L					1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.0002			1	E245.1	07/29/08 12:32/eli-b
DATA QUALITY									
A/C Balance (± 5)	-4.26	%					1	A1030 E	09/05/08 00:00/jmh
Anions	31.5	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	28.9	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08						1	A1030 E	09/05/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080722A-ALK-SEL-W		
Sample ID: LCS1_080722A	Laboratory Control Sample				Run: PH_COND1-R_080722A				07/22/08 08:58
Alkalinity, Total as CaCO3	948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080722A	Method Blank				Run: PH_COND1-R_080722A				07/22/08 08:59
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B							Batch: 080722_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C				07/22/08 09:53
Conductivity @ 25 C	1430	umhos/cm	5.0	101	90	110			
Sample ID: LCS1-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C				07/22/08 09:54
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C				07/22/08 09:55
Conductivity @ 25 C	5140	umhos/cm	5.0	103	90	110			
Sample ID: MBLK-1_080722	Method Blank				Run: PH_COND2-R_080722C				07/22/08 09:56
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08070357-001BDUP	Sample Duplicate				Run: PH_COND2-R_080722C				07/22/08 10:07
Conductivity @ 25 C	666	umhos/cm	5.0				0.9	10	
Method: A2540 C							Batch: 080723A-SLDS-TDS-W		
Sample ID: LCS1_080723A	Laboratory Control Sample				Run: BAL-4-R_080724B				07/23/08 11:36
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080723A	Method Blank				Run: BAL-4-R_080724B				07/23/08 11:37
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: BAL-4-R_080724B				07/24/08 00:00
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	96	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B				07/24/08 00:00
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	110	80	120	1.5	10	
Sample ID: R08070396-001AMS	Sample Matrix Spike				Run: BAL-4-R_080724B				07/23/08 11:51
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	125	80	120			S
Sample ID: R08070396-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B				07/23/08 11:52
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	109	80	120	2.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D							Batch: 080721A-SLDS-TSS-W		
Sample ID: LCS1_080721A	Laboratory Control Sample				Run: BAL-4-R_080721B				07/21/08 14:54
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: MBLK1_080721A	Method Blank				Run: BAL-4-R_080721B				07/21/08 14:55
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08070343-003CDUP	Sample Duplicate				Run: BAL-4-R_080721B				07/21/08 15:09
Solids, Total Suspended TSS @ 105 C	19000	mg/L	5.0				5.1	20	
Method: A3114 B							Batch: C_SE3114-0808015A		
Sample ID: MBLK	Method Blank				Run: SUB-C105972				08/15/08 11:38
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105972				08/15/08 11:40
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105972				08/15/08 11:46
Selenium-IV	0.055	mg/L	0.0010	109	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105972				08/15/08 11:48
Selenium-IV	0.057	mg/L	0.0010	113	85	115	4	10	
Method: A3114 B							Batch: C_SE3114-0808015B		
Sample ID: MBLK	Method Blank				Run: SUB-C105991				08/15/08 15:10
Selenium	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105991				08/15/08 15:20
Selenium	0.047	mg/L	0.0010	95	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105991				08/15/08 15:24
Selenium	0.047	mg/L	0.0010	91	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105991				08/15/08 15:26
Selenium	0.048	mg/L	0.0010	93	85	115	2.1	15	
Method: A4500-H B							Batch: 080722_1_PH-W		
Sample ID: LCS_pH-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722A				07/22/08 09:14
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08070352-003CDUP	Sample Duplicate				Run: PH_COND2-R_080722A				07/22/08 09:33
pH	7.83	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-30_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080730A			07/30/08 11:56
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	102	90	110			
						Run: TECHAA2-R_080730A			07/30/08 11:58
Sample ID: R08070342-001FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.66	mg/L	0.10	102	80	120			
						Run: TECHAA2-R_080730A			07/30/08 12:06
Sample ID: R08070342-001FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.65	mg/L	0.10	99	80	120	0.9	10	
						Run: TECHAA2-R_080730A			07/30/08 12:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19243		
Sample ID: MB-19243	Method Blank			Run: SUB-C105315			08/04/08 18:29		
Aluminum	0.007	mg/L	0.002						
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19243	Laboratory Control Sample			Run: SUB-C105315			08/04/08 18:33		
Aluminum	2.55	mg/L	0.10	102	85	115			
Boron	0.528	mg/L	0.10	102	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Calcium	27.0	mg/L	1.0	108	85	115			
Magnesium	26.4	mg/L	1.0	106	85	115			
Potassium	25.9	mg/L	1.0	104	85	115			
Silica	5.57	mg/L	0.10	111	85	115			
Sodium	26.3	mg/L	1.0	105	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike			Run: SUB-C105315			08/04/08 19:02		
Aluminum	2.59	mg/L	0.10	101	70	130			
Boron	0.792	mg/L	0.10	106	70	130			
Iron	3.18	mg/L	0.030	110	70	130			
Calcium	29.9	mg/L	1.0	112	70	130			
Magnesium	27.6	mg/L	1.0	109	70	130			
Potassium	26.4	mg/L	1.0	103	70	130			
Sodium	396	mg/L	1.1		70	130			A
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105315			08/04/08 19:06		
Aluminum	2.44	mg/L	0.10	95	70	130	6	20	
Boron	0.738	mg/L	0.10	95	70	130	7.1	20	
Iron	2.88	mg/L	0.030	98	70	130	9.8	20	
Calcium	27.4	mg/L	1.0	102	70	130	8.7	20	
Magnesium	25.4	mg/L	1.0	100	70	130	8.2	20	
Potassium	25.5	mg/L	1.0	99	70	130	3.5	20	
Sodium	386	mg/L	1.1		70	130	2.7	20	A
Sample ID: MB-19243	Method Blank			Run: SUB-C105946			08/14/08 13:16		
Aluminum	ND	mg/L	0.002						
Boron	0.03	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19243
Sample ID: MB-19243	Method Blank								Run: SUB-C105946 08/14/08 13:16
Sample ID: LCS3-19243	Laboratory Control Sample								Run: SUB-C105946 08/14/08 13:20
Aluminum	2.50	mg/L	0.10	100	85	115			
Boron	0.531	mg/L	0.10	101	85	115			
Iron	2.71	mg/L	0.030	108	85	115			
Calcium	26.6	mg/L	1.0	106	85	115			
Magnesium	27.7	mg/L	1.0	111	85	115			
Potassium	24.6	mg/L	1.0	98	85	115			
Silica	5.45	mg/L	0.10	109	85	115			
Sodium	23.6	mg/L	1.0	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R107273		
Sample ID: MB-080909A	Method Blank			Run: SUB-C107273			09/09/08 15:13		
Silica	ND	mg/L	0.02						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Sample ID: LFB-080909A	Laboratory Fortified Blank			Run: SUB-C107273			09/09/08 15:18		
Silica	0.38	mg/L	0.10	95	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	105	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Sodium	52	mg/L	0.77	104	85	125			
Sample ID: C08090002-001BMS2	Sample Matrix Spike			Run: SUB-C107273			09/09/08 19:57		
Boron	2.06	mg/L	0.10	103	70	130			
Iron	2.08	mg/L	0.030	101	70	130			
Calcium	126	mg/L	1.0	104	70	130			
Magnesium	103	mg/L	1.0	101	70	130			
Potassium	95.4	mg/L	1.0	94	70	130			
Silica	4.26	mg/L	0.10		70	130			A
Sodium	115	mg/L	1.5	101	70	130			
Sample ID: C08090002-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C107273			09/09/08 20:01		
Boron	2.06	mg/L	0.10	103	70	130	0.4	20	
Iron	2.10	mg/L	0.030	102	70	130	1.2	20	
Calcium	126	mg/L	1.0	103	70	130	0.3	20	
Magnesium	103	mg/L	1.0	100	70	130	0.6	20	
Potassium	94.1	mg/L	1.0	92	70	130	1.4	20	
Silica	4.35	mg/L	0.10		70	130	2	20	A
Sodium	116	mg/L	1.5	101	70	130	0.4	20	
Sample ID: C08090083-001BMS2	Sample Matrix Spike			Run: SUB-C107273			09/09/08 21:18		
Boron	1.33	mg/L	0.10	101	70	130			
Iron	1.03	mg/L	0.030	103	70	130			
Calcium	53.7	mg/L	1.0	106	70	130			
Magnesium	51.2	mg/L	1.0	102	70	130			
Potassium	45.6	mg/L	1.0	91	70	130			
Silica	6.48	mg/L	0.10		70	130			A
Sodium	163	mg/L	1.0	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R107273		
Sample ID: C08090083-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C107273			09/09/08 21:22		
Boron	1.30	mg/L	0.10	98	70	130	2.4	20	
Iron	0.975	mg/L	0.030	98	70	130	5.7	20	
Calcium	51.3	mg/L	1.0	101	70	130	4.5	20	
Magnesium	48.9	mg/L	1.0	98	70	130	4.7	20	
Potassium	44.9	mg/L	1.0	89	70	130	1.4	20	
Silica	6.23	mg/L	0.10		70	130	3.9	20	A
Sodium	161	mg/L	1.0	91	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19243		
Sample ID: MB-19243	Method Blank		Run: SUB-C105162				08/01/08 01:28		
Arsenic	0.02	mg/L	4E-05						
Barium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.007	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Vanadium	0.1	mg/L	0.0007						
Zinc	0.001	mg/L	0.0007						
Sample ID: LCS3-19243	Laboratory Control Sample		Run: SUB-C105162				08/01/08 01:35		
Arsenic	0.570	mg/L	0.0010	109	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Cadmium	0.271	mg/L	0.010	108	85	115			
Chromium	0.533	mg/L	0.050	105	85	115			
Copper	0.530	mg/L	0.010	106	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.86	mg/L	0.010	114	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.529	mg/L	0.050	106	85	115			
Silver	0.0343	mg/L	0.010	69	85	115			S
Uranium	0.557	mg/L	0.00030	112	85	115			
Vanadium	0.772	mg/L	0.10	133	85	115			S
Zinc	0.538	mg/L	0.010	107	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike		Run: SUB-C105162				08/01/08 04:45		
Arsenic	0.569	mg/L	0.0010	109	70	130			
Barium	0.587	mg/L	0.10	105	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.542	mg/L	0.050	107	70	130			
Copper	0.542	mg/L	0.010	108	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Manganese	2.83	mg/L	0.010	113	70	130			
Molybdenum	0.503	mg/L	0.10	101	70	130			
Nickel	0.532	mg/L	0.050	106	70	130			
Silver	0.0337	mg/L	0.010	67	70	130			S
Uranium	0.546	mg/L	0.00030	109	70	130			
Vanadium	0.799	mg/L	0.10	112	70	130			
Zinc	0.540	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19243		
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105162			08/01/08 04:52		
Arsenic	0.538	mg/L	0.0010	103	70	130	5.6		20
Barium	0.561	mg/L	0.10	100	70	130	4.5		20
Cadmium	0.248	mg/L	0.010	99	70	130	5.7		20
Chromium	0.512	mg/L	0.050	101	70	130	5.7		20
Copper	0.510	mg/L	0.010	102	70	130	6.1		20
Lead	0.480	mg/L	0.050	96	70	130	3.8		20
Manganese	2.69	mg/L	0.010	107	70	130	5		20
Molybdenum	0.483	mg/L	0.10	97	70	130	4		20
Nickel	0.504	mg/L	0.050	101	70	130	5.5		20
Silver	0.0359	mg/L	0.010	72	70	130	6.2		20
Uranium	0.521	mg/L	0.00030	104	70	130	4.6		20
Vanadium	0.748	mg/L	0.10	102	70	130	6.6		20
Zinc	0.524	mg/L	0.010	103	70	130	3.1		20
Method: E200.8							Batch: C_19254		
Sample ID: MB-19254	Method Blank			Run: SUB-C105957			08/14/08 16:14		
Thorium 232	0.0006	mg/L							
Uranium	1E-05	mg/L							
Sample ID: LCS1-19254	Laboratory Control Sample			Run: SUB-C105957			08/14/08 16:21		
Thorium 232	0.0484	mg/L	0.0010	91	80	120			
Uranium	0.0513	mg/L	0.00030	97	80	120			
Sample ID: R08070343-003K	Post Digestion Spike			Run: SUB-C105957			08/14/08 17:17		
Thorium 232	0.180	mg/L	0.0010	99	70	130			
Uranium	0.182	mg/L	0.00030	106	70	130			
Sample ID: R08070343-003K	Post Digestion Spike Duplicate			Run: SUB-C105957			08/14/08 17:24		
Thorium 232	0.180	mg/L	0.0010	99	70	130	0		20
Uranium	0.182	mg/L	0.00030	106	70	130	0.3		20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: LRB	Method Blank		Run: SUB-C105384				08/05/08 13:12		
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105384				08/05/08 13:18		
Arsenic	0.0564	mg/L	0.0010	113	85	115			
Barium	0.0559	mg/L	0.0010	112	85	115			
Cadmium	0.0557	mg/L	0.0010	111	85	115			
Chromium	0.0537	mg/L	0.0010	107	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0563	mg/L	0.0010	113	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00558	mg/L	0.0010	112	85	115			
Molybdenum	0.0564	mg/L	0.0010	113	85	115			
Nickel	0.0574	mg/L	0.0010	115	85	115			
Thorium 232	0.0538	mg/L	0.0010	108	85	115			
Uranium	0.0543	mg/L	0.00030	109	85	115			
Vanadium	0.0531	mg/L	0.0010	106	85	115			
Zinc	0.0579	mg/L	0.0010	116	85	115			
Sample ID: C08071095-005BMS4	Post Digestion Spike		Run: SUB-C105384				08/05/08 19:08		
Arsenic	0.0597	mg/L	0.0010	110	70	130			
Barium	0.191	mg/L	0.10	105	70	130			
Cadmium	0.0518	mg/L	0.010	104	70	130			
Chromium	0.0499	mg/L	0.050	100	70	130			
Copper	0.0573	mg/L	0.010	104	70	130			
Lead	0.0542	mg/L	0.050	108	70	130			
Manganese	0.279	mg/L	0.010	70	130				A
Mercury	0.00535	mg/L	0.0010	107	70	130			
Molybdenum	0.0543	mg/L	0.10	103	70	130			
Nickel	0.0557	mg/L	0.050	104	70	130			
Thorium 232	0.0521	mg/L	0.0010	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: C08071095-005BMS4	Post Digestion Spike			Run: SUB-C105384			08/05/08 19:08		
Uranium	0.0590	mg/L	0.00030	108	70	130			
Vanadium	0.0515	mg/L	0.10	100	70	130			
Zinc	0.0576	mg/L	0.010	105	70	130			
Sample ID: C08071095-005BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105384			08/05/08 19:14		
Arsenic	0.0585	mg/L	0.0010	107	70	130	2.1	20	
Barium	0.194	mg/L	0.10	111	70	130	1.5	20	
Cadmium	0.0518	mg/L	0.010	104	70	130	0.1	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0	20	
Copper	0.0563	mg/L	0.010	102	70	130	1.8	20	
Lead	0.0530	mg/L	0.050	105	70	130	2.1	20	
Manganese	0.279	mg/L	0.010	70	130	130	0.1	20	A
Mercury	0.00525	mg/L	0.0010	105	70	130	1.8	20	
Molybdenum	0.0549	mg/L	0.10	104	70	130	0	20	
Nickel	0.0549	mg/L	0.050	102	70	130	1.5	20	
Thorium 232	0.0512	mg/L	0.0010	102	70	130	1.8	20	
Uranium	0.0575	mg/L	0.00030	105	70	130	2.5	20	
Vanadium	0.0519	mg/L	0.10	101	70	130	0	20	
Zinc	0.0568	mg/L	0.010	103	70	130	1.3	20	
Sample ID: C08071390-001CMS4	Post Digestion Spike			Run: SUB-C105384			08/05/08 20:35		
Arsenic	0.0551	mg/L	0.0010	107	70	130			
Barium	0.0670	mg/L	0.10	107	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0480	mg/L	0.050	96	70	130			
Copper	0.0492	mg/L	0.010	97	70	130			
Lead	0.0545	mg/L	0.050	109	70	130			
Manganese	0.0869	mg/L	0.010	103	70	130			
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0529	mg/L	0.10	104	70	130			
Nickel	0.0491	mg/L	0.050	98	70	130			
Thorium 232	0.0553	mg/L	0.0010	111	70	130			
Uranium	0.0557	mg/L	0.00030	111	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0506	mg/L	0.010	99	70	130			
Sample ID: C08071390-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C105384			08/05/08 20:42		
Arsenic	0.0557	mg/L	0.0010	108	70	130	0.9	20	
Barium	0.0677	mg/L	0.10	108	70	130	0	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	2.6	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0	20	
Copper	0.0504	mg/L	0.010	99	70	130	2.4	20	
Lead	0.0540	mg/L	0.050	108	70	130	0.9	20	
Manganese	0.0881	mg/L	0.010	106	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: C08071390-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C105384			08/05/08 20:42		
Mercury	0.00536	mg/L	0.0010	107	70	130	0.5	20	
Molybdenum	0.0547	mg/L	0.10	108	70	130	0	20	
Nickel	0.0504	mg/L	0.050	101	70	130	2.7	20	
Thorium 232	0.0557	mg/L	0.0010	111	70	130	0.6	20	
Uranium	0.0556	mg/L	0.00030	111	70	130	0.1	20	
Vanadium	0.0510	mg/L	0.10	102	70	130	0	20	
Zinc	0.0507	mg/L	0.010	99	70	130	0.1	20	
Method: E200.8							Batch: C_R105472		
Sample ID: LRB	Method Blank			Run: SUB-C105472			08/06/08 12:39		
Aluminum	ND	mg/L	0.0001						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105472			08/06/08 12:46		
Aluminum	0.0484	mg/L	0.0010	97	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Sample ID: C08071183-003BMS4	Post Digestion Spike			Run: SUB-C105472			08/06/08 18:32		
Aluminum	0.141	mg/L	0.10	110	70	130			
Silver	0.0158	mg/L	0.010	79	70	130			
Sample ID: C08071183-003BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105472			08/06/08 18:39		
Aluminum	0.138	mg/L	0.10	104	70	130	2.1	20	
Silver	0.0159	mg/L	0.010	79	70	130	0.8	20	
Method: E245.1							Batch: B_33735		
Sample ID: MB-33735	Method Blank			Run: SUB-B114848			07/29/08 11:25		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank			Run: SUB-B114848			07/29/08 11:32		
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike			Run: SUB-B114848			07/29/08 12:18		
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-B114848			07/29/08 12:21		
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36265		
Sample ID: LFB0807215435-3	Laboratory Fortified Blank				Run: DIONEX_080721A		07/21/08 17:59		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank				Run: DIONEX_080721A		07/21/08 18:15		
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070343-002CMS	Sample Matrix Spike				Run: DIONEX_080721A		07/21/08 22:05		
Chloride	249	mg/L	5.4	93	80	120			
Fluoride	106	mg/L	0.56	106	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Sulfate	1880	mg/L	3.4	88	80	120			
Sample ID: R08070343-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080721A		07/21/08 22:21		
Chloride	242	mg/L	5.4	91	80	120	2.6	10	
Fluoride	103	mg/L	0.56	103	80	120	2.4	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.4	10	
Sulfate	1850	mg/L	3.4	83	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0508		
Sample ID: MB-GrAB-0508	Method Blank				Run: SUB-C106727				08/29/08 01:04
Gross Alpha	0.02	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0508	Laboratory Control Sample				Run: SUB-C106727				08/29/08 01:04
Gross Alpha	130	pCi/L		93	70	130			
Sample ID: Cs137-GrAB-0508	Laboratory Control Sample				Run: SUB-C106727				08/29/08 01:04
Gross Beta	92	pCi/L		99	70	130			
Sample ID: C08071157-005DMS	Sample Matrix Spike				Run: SUB-C106727				08/29/08 01:04
Gross Alpha	116	pCi/L		84	70	130			
Sample ID: C08071157-005DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106727				08/29/08 01:04
Gross Alpha	137	pCi/L		99	70	130	16	20	
Sample ID: C08071157-005DMS	Sample Matrix Spike				Run: SUB-C106727				08/29/08 01:04
Gross Beta	94.7	pCi/L		102	70	130			
Sample ID: C08071157-005DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106727				08/29/08 01:04
Gross Beta	92.2	pCi/L		99	70	130	2.7	15.9	
Method: E901.1							Batch: C_R105938		
Sample ID: LCS-R105938	Laboratory Control Sample				Run: SUB-C105938				08/08/08 07:23
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank				Run: SUB-C105938				08/08/08 07:23
Gross Gamma		pCi/L							
Sample ID: R08070343-003I	Sample Duplicate				Run: SUB-C105938				08/08/08 07:23
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19254		
Sample ID: C08071121-001KMS	Sample Matrix Spike				Run: SUB-C105911				08/13/08 12:12
Radium 226	34	pCi/L		90	70	130			
Sample ID: C08071121-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C105911				08/13/08 12:12
Radium 226	34	pCi/L		92	70	130	1.5	24.8	
Sample ID: MB-19254	Method Blank				Run: SUB-C105911				08/13/08 13:55
Radium 226	-1	pCi/L							U
Sample ID: LCS-19254	Laboratory Control Sample				Run: SUB-C105911				08/13/08 13:55
Radium 226	69	pCi/L		89	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3011		
Sample ID: MB-RA226-3011 Radium 226	Method Blank -0.3	pCi/L							08/20/08 12:53 U
Sample ID: LCS-RA226-3011 Radium 226	Laboratory Control Sample 7.6	pCi/L		101	70	130			08/20/08 12:53
Sample ID: C08071121-001JMS Radium 226	Sample Matrix Spike 17	pCi/L		107	70	130			08/20/08 12:53
Sample ID: C08071121-001JMSD Radium 226	Sample Matrix Spike Duplicate 18	pCi/L		112	70	130	4.8	29.5	08/20/08 12:53
Method: E907.0							Batch: C_19254		
Sample ID: C08071010-002EMS Thorium 230	Sample Matrix Spike 24.2	pCi/L	0.20	100	70	130			08/06/08 10:30
Sample ID: C08071010-002EMSD Thorium 230	Sample Matrix Spike Duplicate 24.4	pCi/L	0.20	104	70	130	0.7	30	08/06/08 10:30
Sample ID: LCS-19254 Thorium 230	Laboratory Control Sample 50.1	pCi/L	0.20	103	70	130			08/06/08 10:30
Sample ID: MB-19254 Thorium 230	Method Blank 0.1	pCi/L							08/06/08 10:30 U
Method: E907.0							Batch: C_R106559		
Sample ID: LCS-R106559 Thorium 230	Laboratory Control Sample 6.36	pCi/L	0.20	104	70	130			08/18/08 14:00
Sample ID: R08070343-001J Thorium 230	Sample Matrix Spike 14.5	pCi/L	0.20	90	70	130			08/18/08 14:00
Sample ID: R08070343-001J Thorium 230	Sample Matrix Spike Duplicate 15.4	pCi/L	0.20	96	70	130	6	30	08/18/08 14:00
Sample ID: MB-R106559 Thorium 230	Method Blank ND	pCi/L							08/18/08 14:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESI/EC Report Mail Address:		Project Name, PWS, Permit, Etc. Five Tech DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address:		Contact Name: Cory Foreman Phone/Fax:		Email:	Sampler: (Please Print) Eric Krantz
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		Number of Containers Sample Type: A W S V B O <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other		Invoice Contact & Phone:	Purchase Order:
ANALYSIS REQUESTED CALL Cory Foreman		SEE ATTACHED Normal Turnaround (TAT)		RUSH Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Comments: Sample Split into Proper Containers in LAB. SF
1	Dew Burd PSC01-2	7/18/08	9:25 a.m.	W	bottle 2
2	Dew Burd PSC02-1	7/18/08	9:25 a.m.	W	bottle 1
3	Dew Burd PSC02-2	7/18/08	9:25 a.m.	W	bottle 2
4					
5					
6					
7					
8					
9					
10					
Relinquished by (print): Eric Krantz Date/Time: 7/21/08 0915 Signature: <i>[Signature]</i>		Received by (print): Steve Trailland Date/Time: 7-21-08 9:15 Signature: <i>[Signature]</i>		Received by Laboratory: _____ Date/Time: _____ Signature: _____	
Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____		Shipped by: _____ Cooler D/E/L: _____ Receipt Temp: 2.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: Y N Signature Match: Y N			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

APPENDIX 2.7-G

Groundwater Quality Summary Tables

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Powertech (USA) Inc.		Alluvial Water Quality									
		Hydro ID					Summary Statistics on Hydro ID Means				
		675	676	677	678	679	n	Min	Max	St. Dev.	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**					
Field Parameters											
Water Level Elevation	ft AMSL	3482.6	3644	3561.7	3582.2	3685.4	5	3482.6	3685.4	78.132	3591.2
Field Temperature	°C	12.033	10.74	10.103	10.793	11.085	5	10.103	12.033	0.7031	10.951
Field pH	s.u.	7.115	6.98	6.753	7.008	7.435	5	6.753	7.435	0.2485	7.0582
Field Dissolved Oxygen	mg/L	0.82	7.915	0.8	1.535	9.44	5	0.8	9.44	4.222	4.102
Field Conductivity	umhos/cm	6157	2961.3	11256	5936.8	2665.8	5	2665.8	11256	3456.7	5795.4
Field Turbidity	NTU	20.85	21.2	3.75	7.75	798.5	5	3.75	798.5	351.2	170.41
Physical Properties											
Conductivity @ 25 C	umhos/cm	6205	2960	11380	5950	2460	5	2460	11380	3555	5791
Oxidation-Reduction Potential	mV	213	253	193	223	223	5	193	253	21.7	221
pH	s.u.	7.348	7.24	7.16	7.385	7.59	5	7.16	7.59	0.163	7.345
Sodium Adsorption Ratio (SAR)	unitless	6.43	0.937	16.3	5.03	0.857	5	0.857	16.3	6.3099	5.9108
Solids, Total Dissolved TDS @ 180 C	mg/L	5950	2800	9330	5880	2530	5	2530	9330	2780	5298
Major Ions											
Alkalinity, Total as CaCO3	mg/L	385	224	497	479	144.5	5	144.5	497	156.1	345.9
Carbonate as CO3	mg/L	2.5	2.5	2.5	2.5	2.5	5	2.5	2.5	0	2.5
Bicarbonate as HCO3	mg/L	469.3	273.3	606	583.8	176.5	5	176.5	606	190.2	421.8
Calcium	mg/L	425	514.5	467	426	454	5	425	514.5	36.7	457.3
Chloride	mg/L	65.8	14.5	1625	68.8	12	5	12	1625	709.2	357.2
Fluoride	mg/L	0.4	0.28	0.23	0.6	0.33	5	0.23	0.6	0.144	0.368
Magnesium	mg/L	371.3	115	405.8	440	97.6	5	97.6	440	165.89	285.94
Nitrogen, Ammonia as N	mg/L	0.33	0.05	0.09	0.05	0.05	5	0.05	0.33	0.122	0.114
Nitrogen, Nitrate as N	mg/L	0.06	0.9	0.1	0.15	1.23	5	0.06	1.23	0.54	0.488
Nitrogen, Nitrite as N	mg/L	0.04	0.04	0.04	0.04	0.05	5	0.04	0.05	0.004	0.042
Potassium	mg/L	24.9	11.88	11.33	19.15	11.7	5	11.33	24.9	6.045	15.792
Sodium	mg/L	730.3	88.8	1965	612.5	76.9	5	76.9	1965	769.82	694.7
Sulfate	mg/L	3523	1735	4425	3485	1485	5	1485	4425	1266	2931
Silica	mg/L	13.2	12.2	8.45	13.63	10.43	5	8.45	13.63	2.141	11.582
Metals - Dissolved											
Aluminum	mg/L	0.05	0.05	0.05	0.05	0.05	5	0.05	0.05	0	0.05
Arsenic	mg/L	0.0009	0.0005	0.0011	0.0011	0.0005	5	0.0005	0.0011	0.0003	0.0008
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	5	0.05	0.05	0	0.05
Boron	mg/L	0.35	0.45	0.8	1.43	0.4	5	0.35	1.43	0.452	0.686
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	5	0.0025	0.0025	0	0.0025
Chromium	mg/L	0.025	0.025	0.025	0.025	0.025	5	0.025	0.025	0	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	5	0.005	0.005	0	0.005
Iron	mg/L	0.553	0.015	0.015	0.015	0.015	5	0.015	0.553	0.2406	0.1226
Lead	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	5	0.0005	0.0005	0	0.0005
Manganese	mg/L	3.11	0.013	2.413	2.803	0.063	5	0.013	3.11	1.5196	1.6804
Mercury	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	5	0.0005	0.0005	0	0.0005
Molybdenum	mg/L	0.05	0.05	0.05	0.05	0.05	5	0.05	0.05	0	0.05
Nickel	mg/L	0.025	0.025	0.025	0.025	0.025	5	0.025	0.025	0	0.025
Selenium	mg/L	0.0013	0.013	0.0011	0.0015	0.0128	5	0.0011	0.013	0.0064	0.0059
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	5	0.0025	0.0025	0	0.0025
Thorium 232	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	5	0.0025	0.0025	0	0.0025
Uranium	mg/L	0.039	0.0546	0.0378	0.0356	0.0138	5	0.0138	0.0546	0.0146	0.0362
Vanadium	mg/L	0.05	0.05	0.05	0.09	0.05	5	0.05	0.09	0.018	0.058
Zinc	mg/L	0.013	0.011	0.013	0.008	0.005	5	0.005	0.013	0.0035	0.01
Metals - Dissolved - Speciated											
Selenium-IV	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	5	0.0005	0.0005	0	0.0005
Selenium-VI	mg/L	0.0007	0.0117	0.0005	0.001	0.0113	5	0.0005	0.0117	0.0059	0.005
Metals - Suspended											
Uranium	mg/L	0.0012	0.0203	0.0081	0.0011	0.0034	5	0.0011	0.0203	0.008	0.0068
Metals - Total											
Antimony	mg/L	0.0015	0.0015	0.0015	0.0015	0.0015	5	0.0015	0.0015	0	0.0015
Arsenic	mg/L	0.002	0.0108	0.001	0.0015	0.009	5	0.001	0.0108	0.0047	0.0049
Barium	mg/L	0.05	0.28	0.05	0.05	0.25	5	0.05	0.28	0.118	0.136
Beryllium	mg/L	0.0005	0.0018	0.0005	0.0005	0.0013	5	0.0005	0.0018	0.0006	0.0009
Boron	mg/L	0.18	0.45	0.7	1.5	0.23	5	0.18	1.5	0.537	0.612
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	0.0005	5	0.0005	0.0025	0.0009	0.0021

Powertech (USA) Inc.		Alluvial Water Quality									
		Hydro ID					Summary Statistics on Hydro ID Means				
		675	676	677	678	679	n	Min	Max	St. Dev.	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**					
Chromium	mg/L	0.025	0.038	0.025	0.025	0.025	5	0.025	0.038	0.0058	0.0276
Copper	mg/L	0.005	0.063	0.005	0.005	0.025	5	0.005	0.063	0.0252	0.0206
Iron	mg/L	4.255	33.3	0.08	0.028	20.65	5	0.028	33.3	14.776	11.663
Lead	mg/L	0.0005	0.03	0.0005	0.0005	0.0185	5	0.0005	0.03	0.0136	0.01
Manganese	mg/L	3.21	1.275	2.18	2.665	0.46	5	0.46	3.21	1.099	1.958
Mercury	mg/L	0.0004	0.0004	0.0004	0.0004	0.0002	5	0.0002	0.0004	9E-05	0.0004
Molybdenum	mg/L	0.03	0.03	0.03	0.03	0.015	5	0.015	0.03	0.0067	0.027
Nickel	mg/L	0.025	0.06	0.025	0.025	0.025	5	0.025	0.06	0.0157	0.032
Selenium	mg/L	0.003	0.0125	0.0033	0.004	0.0135	5	0.003	0.0135	0.0053	0.0073
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	5	0.0025	0.0025	0	0.0025
Strontium	mg/L	8.55	8.9	10.8	10.6	7.55	5	7.55	10.8	1.39	9.28
Thallium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	5	0.0005	0.0005	0	0.0005
Uranium	mg/L	0.0445	0.0639	0.0443	0.0383	0.0159	5	0.0159	0.0639	0.0172	0.0414
Zinc	mg/L	0.005	0.155	0.008	0.005	0.075	5	0.005	0.155	0.066	0.05
Radionuclides - Dissolved											
Gross Alpha	pCi/L	30.4	54.03	63	34.58	18.5	5	18.5	63	18.09	40.1
Gross Beta	pCi/L	13.2	16	-7.5	18.05	11.25	5	-7.5	18.05	10.231	10.2
Gross Gamma	pCi/L	280	530	530	550	700	5	280	700	151	518
Lead 210	pCi/L	1.8	1.05	0.93	1.7	3.65	5	0.93	3.65	1.09	1.826
Polonium 210	pCi/L	0.93	1.43	0.9	1.18	0.95	5	0.9	1.43	0.226	1.078
Radium 226	pCi/L	0.23	0.1	0.37	0.1	1.2	5	0.1	1.2	0.46	0.4
Thorium 230	pCi/L	0.08	0.08	0.08	0.18	0.08	5	0.08	0.18	0.045	0.1
Radionuclides - Suspended											
Lead 210	pCi/L	-1.1	-0.48	-0.2	0	-2.1	5	-2.1	0	0.85	-0.78
Polonium 210	pCi/L	0.8	0.83	0.83	0.58	0.3	5	0.3	0.83	0.231	0.668
Radium 226	pCi/L	1.2	3.87	0.8	0.4	3.9	5	0.4	3.9	1.71	2.03
Thorium 230	pCi/L	0.38	1.1	0.68	0.1	1	5	0.1	1.1	0.42	0.65
Radionuclides - Total											
Lead 210	pCi/L	14	0.5	0.5	0.5	0.5	5	0.5	14	6.04	3.20
Polonium 210	pCi/L	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0	0.5
Radium 226	pCi/L	2.3	0.1	0.1	0.1	2.5	5	0.1	2.5	1.26	1.02
Radon 222	pCi/L	818	631.3	983	521.7	1413	5	521.7	1413	349.48	873.4
Thorium 230	pCi/L	0.1	0.1	0.1	0.1	1.9	5	0.1	1.9	0.8	0.5
Data Quality											
A/C Balance (± 5)	%	0.873	-1.009	-0.285	0.4	1.255	5	-1.009	1.255	0.9072	0.2468
Anions	meq/L	82.88	40	144	84.18	33.43	5	33.43	144	44.279	76.898
Cations	meq/L	84.43	136	143	84.93	34.35	5	34.35	143	44.341	96.542
Solids, Total Dissolved Calculated	mg/L	5373	2570	8990	5350	2198	5	2198	8990	2733.3	4896.2
TDS Balance (0.80 - 1.20)	dec. %	1.108	1.073	1.038	1.105	1.153	5	1.038	1.153	0.0429	1.0954

NM - not measured

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc.		Fall River Water Quality								
		Hydro ID								
		7	8	18	628	631	681	688	694	695
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**
Field Parameters										
Water Level Elevation	ft AMSL	NM	3558.6	NM	3695.1	3714.9	3642.3	3341.6	3646.2	3628.7
Field Temperature	°C	11.1	11.947	11.965	14.887	11.55	14.487	11.961	12.978	12.1
Field pH	s.u.	7.958	7.888	8.15	8.248	7.38	7.7	8.438	7.565	7.9
Field Dissolved Oxygen	mg/L	4.215	5.42	1.31	0.07	2.233	0.24	2.12	0.99	0.18
Field Conductivity	umhos/cm	1405.5	1266.5	1356	1480.5	2076.5	1339	1223.3	1414	1392
Field Turbidity	NTU	0.43	0.1	0.73	1.8	0.23	1.67	5.23	5.63	1.3
Physical Properties										
Conductivity @ 25 C	umhos/cm	1542	1458	1428	1860	2325	1320	1201	1370	1468
Non-polar Materials (SGT-HEM)	mg/L	2.5	NM	2.5	NM	NM	NM	NM	NM	NM
Oxidation-Reduction Potential	mV	200	193	140	129	137	199	219	234	188
pH	s.u.	8.114	7.948	8.086	8.24	7.533	7.941	8.45	7.734	7.927
Sodium Adsorption Ratio (SAR)	unitless	10	6.17	10.3	9	1.13	5.73	6.01	3.86	7.11
Solids, Total Dissolved TDS @ 180 C	mg/L	1000	1000	960	1250	2000	908	774	980	1040
Major Ions										
Alkalinity, Total as CaCO3	mg/L	171.2	169	180	154	162.5	173	144.8	201.3	176.2
Carbonate as CO3	mg/L	2.5	2.5	2.5	2.5	2.5	2.5	7.8	2.5	2.5
Bicarbonate as HCO3	mg/L	209.2	206	219.4	184.3	198.3	211	162.8	245.4	214.8
Calcium	mg/L	35.6	54.1	34.2	39	318.5	62.9	46.42	97.7	75.4
Chloride	mg/L	11.8	12	13.2	47	10	15.2	11.3	9.2	12.3
Fluoride	mg/L	0.35	0.43	0.42	0.45	0.33	0.47	0.52	0.33	0.45
Magnesium	mg/L	15	23.68	12.1	16.6	91	24.14	19.88	36.4	26.3
Nitrogen, Ammonia as N	mg/L	0.34	0.19	0.18	0.3	0.05	0.05	0.25	0.22	0.21
Nitrogen, Nitrate as N	mg/L	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Nitrogen, Nitrite as N	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Potassium	mg/L	10.78	14.58	7.08	8.7	15.9	10.01	13.03	13.4	9.94
Sodium	mg/L	270	221	275.8	320.3	92.4	210.9	191.8	176.1	241.2
Sulfate	mg/L	559.2	525.8	511.4	708	1240	483.4	425	513	579
Silica	mg/L	6.78	6.1	6.76	5.18	6.35	6.37	11.18	6.39	5.69
Metals - Dissolved										
Aluminum	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Arsenic	mg/L	0.001	0.0008	0.002	0.0009	0.0006	0.0021	0.0014	0.0014	0.0006
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Boron	mg/L	0.05	0.06	0.05	0.21	0.14	0.05	0.05	0.05	0.06
Cadmium	mg/L	0.0021	0.003	0.003	0.0025	0.003	0.0025	0.0025	0.0025	0.0025
Chromium	mg/L	0.021	0.025	0.021	0.025	0.025	0.025	0.025	0.025	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Iron	mg/L	0.015	0.015	0.015	0.039	0.454	0.015	0.03	0.018	0.123
Lead	mg/L	0.001	0.007	0.006	0.0005	0.007	0.0007	0.0005	0.0005	0.0005
Manganese	mg/L	0.03	0.09	0.062	0.095	0.3	0.09	0.044	0.148	0.143
Mercury	mg/L	0.0005	0.0004	0.0004	0.0005	0.0004	0.0005	0.0005	0.0005	0.0005
Molybdenum	mg/L	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Nickel	mg/L	0.021	0.025	0.026	0.025	0.025	0.025	0.025	0.025	0.025
Selenium	mg/L	0.0009	0.0009	0.0009	0.0009	0.0014	0.0009	0.0005	0.0005	0.0005
Silver	mg/L	0.0025	0.003	0.003	0.0025	0.003	0.0025	0.0025	0.0025	0.0025
Thorium 232	mg/L	0.0025	0.002	0.002	0.0025	0.002	0.0025	0.0025	0.0025	0.0025
Uranium	mg/L	0.0002	0.0002	0.0064	0.0027	0.0027	0.0095	0.0002	0.0006	0.0031
Vanadium	mg/L	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Zinc	mg/L	0.005	0.013	0.005	0.006	0.005	0.005	0.005	0.005	0.006
Metals - Dissolved - Speciated										
Selenium-IV	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Selenium-VI	mg/L	0.0005	0.0007	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Metals - Suspended										
Uranium	mg/L	0.0002	0.0002	0.0005	0.0002	0.0002	0.0002	0.0013	0.0002	0.0002
Metals - Total										
Antimony	mg/L	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Arsenic	mg/L	0.0018	0.0018	0.0025	0.0025	0.0013	0.0038	0.0036	0.0026	0.0025
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Beryllium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0008
Boron	mg/L	0.05	0.05	0.05	0.08	0.15	0.05	0.05	0.06	0.07
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	0.0015	0.0022	0.0025	0.0025	0.0023
Chromium	mg/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Iron	mg/L	0.41	0.22	1.075	0.68	1.02	0.051	0.21	0.161	1.63



Powertech (USA) Inc.		Fall River Water Quality								
		Hydro ID								
		7	8	18	628	631	681	688	694	695
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**
Lead	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0018	0.0006	0.0005	0.0005
Manganese	mg/L	0.03	0.085	0.06	0.085	0.3	0.08	0.045	0.16	0.173
Mercury	mg/L	0.0003	0.0004	0.0004	0.0003	0.0004	0.0004	0.0004	0.0004	0.0004
Molybdenum	mg/L	0.03	0.03	0.03	0.03	0.005	0.04	0.05	0.05	0.05
Nickel	mg/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0013	0.0008	0.0008	0.0009	0.001
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Strontium	mg/L	1.05	1.6	0.65	0.9	6.2	1.19	1.25	2.8	1.41
Thallium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Uranium	mg/L	0.0002	0.0002	0.0062	0.003	0.0028	0.0092	0.0002	0.0006	0.0033
Zinc	mg/L	0.005	0.005	0.005	0.005	0.008	0.012	0.006	0.007	0.006
Radionuclides - Dissolved										
Actinium 228	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Americium 241	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Barium 133	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Bismuth 212	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Bismuth 214	pCi/L	300	NM	10	NM	NM	NM	NM	NM	NM
Cesium 134	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Cesium 137	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Cobalt 60	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Gross Alpha	pCi/L	9.5	5.58	26.2	54.33	80.1	1502	13.48	13.26	30.75
Gross Beta	pCi/L	11.1	19.5	10.1	22.88	32.15	437.3	14.28	11.42	11.03
Gross Gamma	pCi/L	280	408	216	450	770	5000	410	390	480
Iodine 125	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Iodine 131	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Lead 210	pCi/L	6.4	2.1	1.15	3.8	1.9	29.67	-0.22	-0.97	-0.63
Lead 212	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Lead 214	pCi/L	350	NM	10	NM	NM	NM	NM	NM	NM
Manganese 54	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Polonium 210	pCi/L	0.78	0.6	0.8	1	1.18	2.36	0.36	0.38	0.22
Potassium 40	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Radium 223	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Radium 224	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Radium 226 - Method E901.1	pCi/L	300	NM	10	NM	NM	NM	NM	NM	NM
Radium 226 - Method E903.0	pCi/L	1.18	1.38	2.98	10.8	15.98	379.8	2.38	2.02	5.17
Radium 228 - Method E901.1	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Radium 228 - Method RA-05	pCi/L	0.5	NM	2.3	NM	NM	NM	NM	NM	NM
Thallium 208	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Thorium 228	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Thorium 230	pCi/L	0.08	0.1	0.1	0.08	0.1	0.07	0.01	0.05	0.04
Thorium 234	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Uranium 238	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Zinc 65	pCi/L	10	NM	10	NM	NM	NM	NM	NM	NM
Radionuclides - Suspended										
Lead 210	pCi/L	-1.5	1.95	7.78	0.68	1.78	11.76	-1.15	-0.59	-0.18
Polonium 210	pCi/L	0.4	0.4	2.2	1.88	0.4	2.04	0.1	0.16	0.15
Radium 226	pCi/L	0.09	1.5	1.6	0.5	0.82	1.77	-0.02	-0.2	-0.06
Thorium 230	pCi/L	0.15	0.08	0.1	0.15	0.2	0.09	1.29	0.03	0.08
Radionuclides - Total										
Lead 210	pCi/L	0.5	0.5	0.5	0.5	0.5	NM	NM	NM	NM
Polonium 210	pCi/L	0.5	0.5	6	6.4	0.5	NM	NM	NM	NM
Radium 226	pCi/L	0.1	3.5	4	6.8	15.2	NM	NM	NM	NM
Radon 222	pCi/L	299.7	322	1034	4047	4190	278000	404	339	1667
Thorium 230	pCi/L	0.1	0.1	0.1	0.1	0.1	NM	NM	NM	NM
Data Quality										
A/C Balance (± 5)	%	0.753	1.173	0.913	-0.105	-1.775	2.568	2.33	2.93	2.962
Anions	meq/L	15	14.3	14.78	17.68	28.75	13.84	12.08	14.99	15.95
Cations	meq/L	15.3	14.65	15.08	17.5	27.88	14.57	12.66	15.89	16.68
Solids, Total Dissolved Calculated	mg/L	999	938.3	1000	1168	1845	919.7	826	984	1065
TDS Balance (0.80 - 1.20)	dec. %	1.008	1.06	0.98	1.08	1.068	0.989	0.939	0.995	0.978



Powertech (USA) Inc.		Fall River Water Quality						
		Hydro ID		Summary Statistics on Hydro ID Means				
		698	706					
Analyte	Units	Mean**	Mean**	n	Min	Max	St. Dev.	Mean**
Field Parameters								
Water Level Elevation	ft AMSL	3679.6	3725.3	9	3341.6	3725.3	118.07	3625.8
Field Temperature	°C	11.71	13.4	11	11.1	14.887	1.2322	12.553
Field pH	s.u.	6.735	7.438	11	6.735	8.438	0.476	7.7636
Field Dissolved Oxygen	mg/L	0.243	NM	10	0.07	5.42	1.841	1.702
Field Conductivity	umhos/cm	2430	1589	11	1223.3	2430	372.96	1542.9
Field Turbidity	NTU	13.14	NM	10	0.1	13.14	4.064	3.026
Physical Properties								
Conductivity @ 25 C	umhos/cm	2428	1513	11	1201	2428	404.8	1628.5
Non-polar Materials (SGT-HEM)	mg/L	NM	NM	2	2.5	2.5	0	2.5
Oxidation-Reduction Potential	mV	140	258	11	129	258	43.4	185.2
pH	s.u.	7.098	7.489	11	7.098	8.45	0.383	7.8691
Sodium Adsorption Ratio (SAR)	unitless	0.98	2.27	11	0.98	10.3	3.334	5.687
Solids, Total Dissolved TDS @ 180 C	mg/L	2180	1200	11	774	2180	456.1	1208.4
Major Ions								
Alkalinity, Total as CaCO3	mg/L	117.2	197	11	117.2	201.3	23.5	167.8
Carbonate as CO3	mg/L	2.5	2.5	11	2.5	7.8	1.6	2.98
Bicarbonate as HCO3	mg/L	142.9	239.7	11	142.9	245.4	30.44	203.07
Calcium	mg/L	368	167.2	11	34.2	368	118.17	118.09
Chloride	mg/L	9.8	10	11	9.2	47	10.85	14.71
Fluoride	mg/L	0.33	0.51	11	0.33	0.52	0.072	0.417
Magnesium	mg/L	133.8	47.6	11	12.1	133.8	38.12	40.59
Nitrogen, Ammonia as N	mg/L	0.16	0.05	11	0.05	0.34	0.099	0.182
Nitrogen, Nitrate as N	mg/L	0.05	0.06	11	0.05	0.06	0.004	0.052
Nitrogen, Nitrite as N	mg/L	0.05	0.05	11	0.05	0.05	0	0.05
Potassium	mg/L	15.98	11.85	11	7.08	15.98	2.924	11.932
Sodium	mg/L	86.6	129.4	11	86.6	320.3	75.77	201.41
Sulfate	mg/L	1370	676.8	11	425	1370	315.9	690.1
Silica	mg/L	8.12	8.33	11	5.18	11.18	1.662	7.023
Metals - Dissolved								
Aluminum	mg/L	0.05	0.05	11	0.05	0.05	0	0.05
Arsenic	mg/L	0.0005	0.0012	11	0.0005	0.0021	0.0006	0.0011
Barium	mg/L	0.05	0.05	11	0.05	0.05	0	0.05
Boron	mg/L	0.07	0.05	11	0.05	0.21	0.052	0.076
Cadmium	mg/L	0.0025	0.0025	11	0.0021	0.003	0.0003	0.0026
Chromium	mg/L	0.025	0.025	11	0.021	0.025	0.0016	0.0243
Copper	mg/L	0.005	0.005	11	0.005	0.005	0	0.005
Iron	mg/L	2.577	0.015	11	0.015	2.577	0.7659	0.3015
Lead	mg/L	0.0005	0.0005	11	0.0005	0.007	0.0029	0.0023
Manganese	mg/L	2.407	0.541	11	0.03	2.407	0.6951	0.3591
Mercury	mg/L	0.0005	0.0005	11	0.0004	0.0005	5E-05	0.0005
Molybdenum	mg/L	0.05	0.05	11	0.04	0.05	0.004	0.048
Nickel	mg/L	0.025	0.025	11	0.021	0.026	0.0013	0.0247
Selenium	mg/L	0.0005	0.0006	11	0.0005	0.0014	0.0003	0.0008
Silver	mg/L	0.0025	0.0025	11	0.0025	0.003	0.0002	0.0026
Thorium 232	mg/L	0.0025	0.0025	11	0.002	0.0025	0.0002	0.0024
Uranium	mg/L	0.1063	0.0083	11	0.0002	0.1063	0.0312	0.0127
Vanadium	mg/L	0.05	0.05	11	0.05	0.06	0.003	0.051
Zinc	mg/L	0.006	0.006	11	0.005	0.013	0.0023	0.0061
Metals - Dissolved - Speciated								
Selenium-IV	mg/L	0.0005	0.0005	11	0.0005	0.0005	0	0.0005
Selenium-VI	mg/L	0.0005	0.0006	11	0.0005	0.0007	6E-05	0.0005
Metals - Suspended								
Uranium	mg/L	0.0031	0.0002	11	0.0002	0.0031	0.0009	0.0006
Metals - Total								
Antimony	mg/L	0.0015	0.0015	11	0.0015	0.0015	0	0.0015
Arsenic	mg/L	0.0025	0.0018	11	0.0013	0.0038	0.0008	0.0024
Barium	mg/L	0.05	0.05	11	0.05	0.05	0	0.05
Beryllium	mg/L	0.0006	0.0005	11	0.0005	0.0008	9E-05	0.0006
Boron	mg/L	0.06	0.05	11	0.05	0.15	0.03	0.07
Cadmium	mg/L	0.0025	0.0025	11	0.0015	0.0025	0.0003	0.0024
Chromium	mg/L	0.025	0.025	11	0.025	0.025	0	0.025
Copper	mg/L	0.005	0.005	11	0.005	0.005	0	0.005
Iron	mg/L	4.764	0.042	11	0.042	4.764	1.3684	0.933



Powertech (USA) Inc.		Fall River Water Quality						
		Hydro ID		Summary Statistics on Hydro ID Means				
		698	706					
Analyte	Units	Mean**	Mean**	n	Min	Max	St. Dev.	Mean**
Lead	mg/L	0.0006	0.0005	11	0.0005	0.0018	0.0004	0.0006
Manganese	mg/L	2.49	0.556	11	0.03	2.49	0.72	0.369
Mercury	mg/L	0.0004	0.0005	11	0.0003	0.0005	5E-05	0.0004
Molybdenum	mg/L	0.05	0.05	11	0.005	0.05	0.0144	0.0377
Nickel	mg/L	0.025	0.025	11	0.025	0.025	0	0.025
Selenium	mg/L	0.0014	0.0006	11	0.0005	0.0014	0.0003	0.0008
Silver	mg/L	0.003	0.0025	11	0.0025	0.003	0.0002	0.0026
Strontium	mg/L	4.83	2.32	11	0.65	6.2	1.778	2.2
Thallium	mg/L	0.0005	0.0005	11	0.0005	0.0005	0	0.0005
Uranium	mg/L	0.1132	0.0086	11	0.0002	0.1132	0.0333	0.0134
Zinc	mg/L	0.005	0.005	11	0.005	0.012	0.0021	0.0063
Radionuclides - Dissolved								
Actinium 228	pCi/L	NM	NM	2	10	10	0	10
Americium 241	pCi/L	NM	NM	2	10	10	0	10
Barium 133	pCi/L	NM	NM	2	10	10	0	10
Bismuth 212	pCi/L	NM	NM	2	10	10	0	10
Bismuth 214	pCi/L	NM	NM	2	10	300	205	155
Cesium 134	pCi/L	NM	NM	2	10	10	0	10
Cesium 137	pCi/L	NM	NM	2	10	10	0	10
Cobalt 60	pCi/L	NM	NM	2	10	10	0	10
Gross Alpha	pCi/L	1505	29.6	11	5.58	1505	596.78	297.26
Gross Beta	pCi/L	483.7	23.88	11	10.1	483.7	179.69	97.94
Gross Gamma	pCi/L	1220	650	11	216	5000	1376.7	934
Iodine 125	pCi/L	NM	NM	2	10	10	0	10
Iodine 131	pCi/L	NM	NM	2	10	10	0	10
Lead 210	pCi/L	0.48	0.14	11	-0.97	29.67	8.79	3.98
Lead 212	pCi/L	NM	NM	2	10	10	0	10
Lead 214	pCi/L	NM	NM	2	10	350	240	180
Manganese 54	pCi/L	NM	NM	2	10	10	0	10
Polonium 210	pCi/L	0.62	0.018	11	0.018	2.36	0.6315	0.7562
Potassium 40	pCi/L	NM	NM	2	10	10	0	10
Radium 223	pCi/L	NM	NM	2	10	10	0	10
Radium 224	pCi/L	NM	NM	2	10	10	0	10
Radium 226 - Method E901.1	pCi/L	NM	NM	2	10	300	205	155
Radium 226 - Method E903.0	pCi/L	388.2	2.58	11	1.18	388.2	153.42	73.861
Radium 228 - Method E901.1	pCi/L	NM	NM	2	10	10	0	10
Radium 228 - Method RA-05	pCi/L	NM	NM	2	0.5	2.3	1.27	1.4
Thallium 208	pCi/L	NM	NM	2	10	10	0	10
Thorium 228	pCi/L	NM	NM	2	10	10	0	10
Thorium 230	pCi/L	0.04	0.07	11	0.01	0.1	0.029	0.067
Thorium 234	pCi/L	NM	NM	2	10	10	0	10
Uranium 238	pCi/L	NM	NM	2	10	10	0	10
Zinc 65	pCi/L	NM	NM	2	10	10	0	10
Radionuclides - Suspended								
Lead 210	pCi/L	2.38	0.42	11	-1.5	11.76	4.081	2.121
Polonium 210	pCi/L	1	0.029	11	0.029	2.2	0.8426	0.7963
Radium 226	pCi/L	7.91	0.04	11	-0.2	7.91	2.319	1.268
Thorium 230	pCi/L	0.58	-0.07	11	-0.07	1.29	0.383	0.244
Radionuclides - Total								
Lead 210	pCi/L	NM	NM	5	0.5	0.5	0	0.5
Polonium 210	pCi/L	NM	NM	5	0.5	6.4	3.13	2.78
Radium 226	pCi/L	NM	NM	5	0.1	15.2	5.71	5.92
Radon 222	pCi/L	33630	336.6	11	299.7	278000	83003	29479
Thorium 230	pCi/L	NM	NM	5	0.1	0.1	0	0.1
Data Quality								
A/C Balance (± 5)	%	4.205	-0.261	11	-1.775	4.205	1.752	1.427
Anions	meq/L	31.13	18.33	11	12.08	31.13	6.219	17.894
Cations	meq/L	33.83	18.23	11	12.66	33.83	6.484	18.388
Solids, Total Dissolved Calculated	mg/L	2076	1217	11	826	2076	401.8	1185.3
TDS Balance (0.80 - 1.20)	dec. %	1.051	1.014	11	0.939	1.08	0.0446	1.0147

NM - not measured

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc.		Chilson Water Quality									
		Hydro ID									
		2	13	16	42	615	619	622	650	680	689
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**
Field Parameters											
Water Level Elevation	ft AMSL	NM	NM	NM	NM	3689.5	3679.2	3710.2	3682.2	3661.5	3682.3
Field Temperature	°C	12.587	9.85	11.95	9.383	14.81	11.4	14.11	12.008	12.74	15.39
Field pH	s.u.	7.96	7.953	7.41	8	7.103	7.148	7.643	7.538	6.919	7.702
Field Dissolved Oxygen	mg/L	1.87	1.515	0.25	3.285	0.265	1.14	0.136	1.885	0.265	0.14
Field Conductivity	umhos/cm	1436.3	1128	958	1331.8	1069	1906	1330	1656.3	2600	1099
Field Turbidity	NTU	0.67	2.6	0.5	0.4	2.34	11.07	19.83	29.3	1.91	22.92
Physical Properties											
Conductivity @ 25 C	umhos/cm	1580	1292	1063	1408	1055	2175	1298	1818	2621	1072
Non-polar Materials (SGT-HEM)	mg/L	NM	2.5	2.5	2.5	NM	NM	NM	NM	NM	NM
Oxidation-Reduction Potential	mV	173	230	223	203	229	32	219	170	196	220
pH	s.u.	7.903	7.904	7.46	8.022	7.484	7.283	7.769	7.24	7.343	7.93
Sodium Adsorption Ratio (SAR)	unitless	8.6	4.77	0.943	10.2	3.49	1.1	4.7	2.1	1.56	5.45
Solids, Total Dissolved TDS @ 180 C	mg/L	1100	878	814	950	708	2030	900	1600	2290	721
Major Ions											
Alkalinity, Total as CaCO3	mg/L	210.5	159	153	178	138	118	175.5	71	249.3	150
Carbonate as CO3	mg/L	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Bicarbonate as HCO3	mg/L	256.8	192.6	190	217	168.2	143	213.9	86.8	303.9	182.8
Calcium	mg/L	53	62.02	118	34.74	73.29	321.3	81.83	166.5	385.5	46.92
Chloride	mg/L	10.3	10.6	5.04	12.4	5	10	10.3	17	12.9	5.2
Fluoride	mg/L	0.25	0.45	0.41	0.4	0.53	0.25	0.43	0.08	0.34	0.54
Magnesium	mg/L	17.3	24	45.8	11.8	21.86	114.1	29.12	80	124.1	15.96
Nitrogen, Ammonia as N	mg/L	0.29	0.2	0.12	0.12	0.05	0.23	0.05	0.05	0.06	0.05
Nitrogen, Nitrate as N	mg/L	0.05	0.05	0.08	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Nitrogen, Nitrite as N	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Potassium	mg/L	11.35	11.06	16.08	7.18	9.11	16.8	10.96	16.45	19.37	8.12
Sodium	mg/L	283	175.8	47.4	265.6	132.5	86.6	177.9	122.3	137.5	176.2
Sulfate	mg/L	594.5	482	449.6	493.6	396	1290	491.8	987	1351	388.8
Silica	mg/L	7.28	6.2	6.34	6.56	6.78	6.4	5.73	1.24	7	7.08
Metals - Dissolved											
Aluminum	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.19	0.05	0.05
Arsenic	mg/L	0.0006	0.001	0.002	0.002	0.016	0.0006	0.0006	0.0009	0.0045	0.002
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Boron	mg/L	0.06	0.05	0.064	0.06	0.05	0.05	0.05	0.08	0.13	0.05
Cadmium	mg/L	0.003	0.0021	0.0021	0.0021	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Chromium	mg/L	0.025	0.021	0.021	0.021	0.025	0.025	0.025	0.025	0.025	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	0.025	0.005	0.005	0.005	0.005
Iron	mg/L	0.015	0.015	0.015	0.015	0.38	3.148	0.024	3.51	0.166	0.015
Lead	mg/L	0.007	0.001	0.001	0.001	0.0005	0.0028	0.0006	0.0005	0.0005	0.0005
Manganese	mg/L	0.083	0.15	0.125	0.078	0.069	1.505	0.178	1.3	0.449	0.039
Mercury	mg/L	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Molybdenum	mg/L	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05
Nickel	mg/L	0.025	0.021	0.021	0.024	0.025	0.025	0.025	0.025	0.025	0.025
Selenium	mg/L	0.0005	0.0013	0.0009	0.001	0.0005	0.001	0.0005	0.0014	0.0009	0.0005
Silver	mg/L	0.003	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.003	0.0025
Thorium 232	mg/L	0.002	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Uranium	mg/L	0.0002	0.0002	0.0011	0.024	0.0025	0.0017	0.0043	0.0006	0.0344	0.0035
Vanadium	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Zinc	mg/L	0.005	0.013	0.034	0.017	0.005	0.06	0.005	0.009	0.007	0.005
Metals - Dissolved - Speciated											
Selenium-IV	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Selenium-VI	mg/L	0.0005	0.0005	0.0005	0.0007	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005
Metals - Suspended											
Uranium	mg/L	0.0002	0.0002	0.0002	0.0008	0.0004	0.0002	0.0003	0.0013	0.0003	0.0003
Metals - Total											
Antimony	mg/L	0.0015	0.0015	0.0015	0.0015	0.0016	0.0015	0.0015	0.0015	0.0015	0.0015
Arsenic	mg/L	0.0025	0.0008	0.0025	0.003	0.0231	0.002	0.0053	0.0015	0.0041	0.0026
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.05	0.05	0.05
Beryllium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0007	0.0006
Boron	mg/L	0.05	0.05	0.05	0.05	0.08	0.05	0.06	0.1	0.1	0.05
Cadmium	mg/L	0.0025	0.0015	0.0025	0.0025	0.0025	0.0015	0.0025	0.0015	0.0023	0.0025
Chromium	mg/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.043	0.005	0.005
Iron	mg/L	1.51	3.835	0.255	0.155	1.363	12.5	3.8	8.29	0.305	0.978



Powertech (USA) Inc.		Chilson Water Quality									
		Hydro ID									
		2	13	16	42	615	619	622	650	680	689
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**	Mean**
Lead	mg/L	0.0005	0.0005	0.001	0.0005	0.0017	0.0035	0.008	0.026	0.0005	0.0022
Manganese	mg/L	0.09	0.18	0.135	0.08	0.069	1.735	0.193	0.61	0.459	0.063
Mercury	mg/L	0.0004	0.0003	0.0003	0.0003	0.0004	0.0002	0.0004	0.0002	0.0004	0.0004
Molybdenum	mg/L	0.03	0.005	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.05
Nickel	mg/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Selenium	mg/L	0.0005	0.0005	0.0013	0.0005	0.0008	0.0005	0.0009	0.0005	0.0007	0.0008
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.003	0.003
Strontium	mg/L	1.75	1.6	2.7	0.7	1.38	5.3	1.42	2.35	7.45	0.9
Thallium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006
Uranium	mg/L	0.0002	0.0002	0.0004	0.0174	0.0024	0.0018	0.0047	0.0003	0.0244	0.0049
Zinc	mg/L	0.005	0.055	0.018	0.025	0.007	0.13	0.063	0.045	0.01	0.013
Radionuclides - Dissolved											
Actinium 228	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Americium 241	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Barium 133	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Bismuth 212	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Bismuth 214	pCi/L	NM	10	770	1600	NM	NM	NM	NM	NM	NM
Cesium 134	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Cesium 137	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Cobalt 60	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Gross Alpha	pCi/L	6.25	10.42	60	478	19.45	386	149	5.93	4991	39.01
Gross Beta	pCi/L	13.53	12	35	131.5	9.7	151.5	70.3	16.08	1629	14.5
Gross Gamma	pCi/L	70	870	1050	15500	350	1150	113	830	3500	400
Iodine 125	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Iodine 131	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Lead 210	pCi/L	1.15	2.45	-5.58	13.6	0.69	4.7	-0.17	6.9	19.29	-2.04
Lead 212	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Lead 214	pCi/L	NM	10	810	1800	NM	NM	NM	NM	NM	NM
Manganese 54	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Polonium 210	pCi/L	1.18	0.9	0.3	2.03	0.26	0.7	0.23	0.3	0.8	0.24
Potassium 40	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Radium 223	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Radium 224	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Radium 226 - Method E901.1	pCi/L	NM	10	770	1600	NM	NM	NM	NM	NM	NM
Radium 226 - Method E903.0	pCi/L	1.15	1.64	17.92	97.2	2.4	107	3.36	1.93	1289	6.13
Radium 228 - Method E901.1	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Radium 228 - Method RA-05	pCi/L	NM	0.5	0.5	0.5	NM	NM	NM	NM	NM	NM
Thallium 208	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Thorium 228	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Thorium 230	pCi/L	0.08	0.15	0.15	0.2	0.07	0.15	0.04	0.15	0.09	0.05
Thorium 234	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Uranium 238	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Zinc 65	pCi/L	NM	10	10	10	NM	NM	NM	NM	NM	NM
Radionuclides - Suspended											
Lead 210	pCi/L	0.73	0.3	0.33	22.1	2.13	3.5	0.68	4.8	4.15	-1.65
Polonium 210	pCi/L	0.4	1.55	0.5	4.1	0.1	0.4	0.94	0.6	1.7	0.18
Radium 226	pCi/L	0.65	0.45	0.33	1.25	-0.12	5.95	0.2	0.35	6.31	0.2
Thorium 230	pCi/L	0.1	0.2	0.08	0.1	0.16	0.13	0.01	0.3	0.08	0.13
Radionuclides - Total											
Lead 210	pCi/L	0.5	0.5	0.5	57	NM	0.5	NM	0.5	NM	NM
Polonium 210	pCi/L	0.5	5.2	0.5	13	NM	0.5	NM	0.5	NM	NM
Radium 226	pCi/L	2.2		17.4	79.7	NM	120	NM	3.2	NM	NM
Radon 222	pCi/L	731	327.5	17900	180800	1583	4780	1063	196.7	105800	1901
Thorium 230	pCi/L	0.1	0.1	0.1	0.1	NM	0.1	NM	0.1	NM	NM
Data Quality											
A/C Balance (± 5)	%	-0.592	-0.695	-0.443	2.017	1.329	2.148	1.238	-1.54	3.54	1.087
Anions	meq/L	16.9	13.2	11.7	14.03	11.17	28.43	14.1	21.35	33.5	11.3
Cations	meq/L	16.7	13.05	11.6	14.63	11.5	29.9	14.53	20.9	35.96	11.5
Solids, Total Dissolved Calculated	mg/L	1108	856	732.5	932.5	739	1868	923.3	1380	2199	751.4
TDS Balance (0.80 - 1.20)	dec. %	1	1.028	1.07	1.025	0.959	1.075	0.976	1.115	1.043	0.959



Powertech (USA) Inc.		Chilson Water Quality									
		Hydro ID					Summary Statistics on Hydro ID Means				
		696	697	705	3026	7002	n	Min	Max	St. Dev	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**					
Field Parameters											
Water Level Elevation	ft AMSL	3637.1	3679.6	3709.7	3681.8	NM	10	3637.1	3710.2	21.242	3681.3
Field Temperature	°C	11.82	13.92	14.18	11.887	11.603	15	9.383	15.39	1.7179	12.509
Field pH	s.u.	8.148	7.8	8.307	7.262	7.393	15	6.919	8.307	0.4117	7.6191
Field Dissolved Oxygen	mg/L	0.24	0.218	NM	1.215	1.16	14	0.136	3.285	0.9374	0.9703
Field Conductivity	umhos/cm	1430	1263	1346	2754.5	2115.3	15	958	2754.5	549	1561.5
Field Turbidity	NTU	2.18	2.63	NM	10.57	1.6	14	0.4	29.3	9.61	7.75
Physical Properties											
Conductivity @ 25 C	umhos/cm	1388	1228	1333	2603	2328	15	1055	2621	553.8	1617.5
Non-polar Materials (SGT-HEM)	mg/L	NM	NM	NM	NM	NM	3	2.5	2.5	0	2.5
Oxidation-Reduction Potential	mV	183	212	236	185	197	15	32	236	49.5	193.9
pH	s.u.	8.251	7.987	8.049	7.179	7.358	15	7.179	8.251	0.354	7.677
Sodium Adsorption Ratio (SAR)	unitless	11.4	6.5	3.9	2.67	2.57	15	0.943	11.4	3.2579	4.6635
Solids, Total Dissolved TDS @ 180 C	mg/L	910	800	940	2240	1880	15	708	2290	581.9	1250.7
Major Ions											
Alkalinity, Total as CaCO3	mg/L	180.2	167	136	172.3	261	15	71	261	47.7	167.9
Carbonate as CO3	mg/L	2.5	2.5	2.5	3	2.5	15	2.5	3	0.13	2.53
Bicarbonate as HCO3	mg/L	218.8	204	164.3	208.3	318.3	15	86.8	318.3	58.2	204.58
Calcium	mg/L	30.1	51.98	84.9	355.1	230	15	30.1	385.5	123.28	139.68
Chloride	mg/L	12.7	8	7.5	17.3	9.8	15	5	17.3	3.84	10.27
Fluoride	mg/L	0.38	0.55	0.37	0.45	0.3	15	0.08	0.55	0.126	0.382
Magnesium	mg/L	10.51	17.3	31.13	105.6	88.2	15	10.51	124.1	41.085	49.119
Nitrogen, Ammonia as N	mg/L	0.39	0.17	0.19	0.59	0.25	15	0.05	0.59	0.166	0.217
Nitrogen, Nitrate as N	mg/L	0.05	0.05	0.1	0.06	0.05	15	0.05	0.1	0.016	0.058
Nitrogen, Nitrite as N	mg/L	0.05	0.05	0.2	0.05	0.05	15	0.05	0.2	0.039	0.06
Potassium	mg/L	9.57	8.8	11.97	20.73	21.2	15	7.18	21.2	4.754	13.25
Sodium	mg/L	283.4	211.8	163.7	192.8	175.8	15	47.4	283.4	67.36	175.49
Sulfate	mg/L	484.9	451	530.7	1422	1075	15	388.8	1422	381.69	725.86
Silica	mg/L	6.25	6.61	8.64	5.09	6.68	15	1.24	8.64	1.592	6.259
Metals - Dissolved											
Aluminum	mg/L	0.05	0.05	0.05	0.05	0.05	15	0.05	0.19	0.036	0.059
Arsenic	mg/L	0.0007	0.0011	0.0006	0.005	0.0009	15	0.0006	0.016	0.004	0.0026
Barium	mg/L	0.05	0.05	0.05	0.05	0.05	15	0.05	0.05	0	0.05
Boron	mg/L	0.05	0.05	0.07	0.14	0.05	15	0.05	0.14	0.029	0.067
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	15	0.0021	0.003	0.0002	0.0025
Chromium	mg/L	0.025	0.025	0.025	0.025	0.025	15	0.021	0.025	0.0017	0.0242
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	15	0.005	0.025	0.005	0.006
Iron	mg/L	0.04	0.033	0.016	6.11	0.151	15	0.015	6.11	1.8388	0.9102
Lead	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	0.0005	0.007	0.0017	0.0012
Manganese	mg/L	0.062	0.054	0.037	0.96	0.388	15	0.037	1.505	0.4874	0.3651
Mercury	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	0.0004	0.0005	3E-05	0.0005
Molybdenum	mg/L	0.05	0.05	0.05	0.07	0.05	15	0.04	0.07	0.007	0.049
Nickel	mg/L	0.025	0.025	0.025	0.025	0.025	15	0.021	0.025	0.0014	0.0244
Selenium	mg/L	0.0005	0.0005	0.0006	0.001	0.0008	15	0.0005	0.0014	0.0003	0.0008
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	15	0.0025	0.003	0.0002	0.0026
Thorium 232	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	15	0.002	0.0025	0.0001	0.0025
Uranium	mg/L	0.0002	0.0002	0.0002	0.0102	0.0006	15	0.0002	0.0344	0.0101	0.0056
Vanadium	mg/L	0.05	0.05	0.05	0.05	0.05	15	0.05	0.05	0	0.05
Zinc	mg/L	0.005	0.005	0.005	0.008	0.005	15	0.005	0.06	0.0152	0.0125
Metals - Dissolved - Speciated											
Selenium-IV	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	0.0005	0.0005	0	0.0005
Selenium-VI	mg/L	0.0005	0.0005	0.0006	0.001	0.0005	15	0.0005	0.001	0.0001	0.0006
Metals - Suspended											
Uranium	mg/L	0.0002	0.0003	0.0003	0.0008	0.0002	15	0.0002	0.0013	0.0003	0.0004
Metals - Total											
Antimony	mg/L	0.0015	0.0015	0.0015	0.0015	0.0015	15	0.0015	0.0016	3E-05	0.0015
Arsenic	mg/L	0.0012	0.0017	0.0017	0.0172	0.0025	15	0.0008	0.0231	0.0064	0.0048
Barium	mg/L	0.05	0.06	0.05	0.05	0.05	15	0.05	0.07	0.006	0.052
Beryllium	mg/L	0.0006	0.0006	0.0005	0.0005	0.0005	15	0.0005	0.0007	6E-05	0.0005
Boron	mg/L	0.05	0.05	0.06	0.15	0.05	15	0.05	0.15	0.03	0.07
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	15	0.0015	0.0025	0.0004	0.0023
Chromium	mg/L	0.025	0.025	0.025	0.025	0.025	15	0.025	0.025	0	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	0.005	15	0.005	0.043	0.0098	0.0077
Iron	mg/L	0.162	0.08	0.21	13.82	1.285	15	0.08	13.82	4.59	3.24



Powertech (USA) Inc.		Chilson Water Quality									
		Hydro ID					Summary Statistics on Hydro ID Means				
		696	697	705	3026	7002	n	Min	Max	St. Dev	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**	Mean**					
Lead	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	0.0005	0.026	0.0066	0.0031
Manganese	mg/L	0.063	0.055	0.04	0.988	0.39	15	0.04	1.735	0.4685	0.3433
Mercury	mg/L	0.0004	0.0004	0.0005	0.0004	0.0003	15	0.0002	0.0005	8E-05	0.0004
Molybdenum	mg/L	0.05	0.05	0.05	0.08	0.03	15	0.005	0.08	0.017	0.0423
Nickel	mg/L	0.025	0.025	0.025	0.025	0.025	15	0.025	0.025	0	0.025
Selenium	mg/L	0.0006	0.0011	0.0005	0.0018	0.0005	15	0.0005	0.0018	0.0004	0.0008
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	0.0025	15	0.0025	0.003	0.0002	0.0026
Strontium	mg/L	0.78	1.15	2.64	5.88	7.15	15	0.7	7.45	2.356	2.877
Thallium	mg/L	0.0005	0.0005	0.0005	0.0005	0.0005	15	0.0005	0.0006	3E-05	0.0005
Uranium	mg/L	0.0002	0.0002	0.0002	0.0111	0.0006	15	0.0002	0.0244	0.0074	0.0046
Zinc	mg/L	0.005	0.009	0.005	0.01	0.005	15	0.005	0.13	0.0344	0.027
Radionuclides - Dissolved											
Actinium 228	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Americium 241	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Barium 133	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Bismuth 212	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Bismuth 214	pCi/L	NM	NM	NM	NM	NM	3	10	1600	795	793
Cesium 134	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Cesium 137	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Cobalt 60	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Gross Alpha	pCi/L	9.48	9.72	3.56	51.7	51.58	15	3.56	4991	1273.3	418.07
Gross Beta	pCi/L	6.84	7.77	11.58	21.49	33.4	15	6.84	1629	413.22	144.28
Gross Gamma	pCi/L	410	460	600	300	790	15	70	15500	3888	1760
Iodine 125	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Iodine 131	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Lead 210	pCi/L	-1.87	-2.76	0.3	0	3.4	15	-5.58	19.29	6.468	2.671
Lead 212	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Lead 214	pCi/L	NM	NM	NM	NM	NM	3	10	1800	897	873
Manganese 54	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Polonium 210	pCi/L	0.11	0.07	0.024	0.13	1.5	15	0.024	2.03	0.5954	0.5849
Potassium 40	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Radium 223	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Radium 224	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Radium 226 - Method E901.1	pCi/L	NM	NM	NM	NM	NM	3	10	1600	795	793
Radium 226 - Method E903.0	pCi/L	1.21	1.52	1.7	5.23	8.35	15	1.15	1289	329.89	103.05
Radium 228 - Method E901.1	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Radium 228 - Method RA-05	pCi/L	NM	NM	NM	NM	NM	3	0.5	0.5	0	0.5
Thallium 208	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Thorium 228	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Thorium 230	pCi/L	0.05	0.05	0.13	0.04	0.1	15	0.04	0.2	0.051	0.1
Thorium 234	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Uranium 238	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Zinc 65	pCi/L	NM	NM	NM	NM	NM	3	10	10	0	10
Radionuclides - Suspended											
Lead 210	pCi/L	-0.11	-0.52	0.49	-0.79	1.95	15	-1.65	22.1	5.717	2.539
Polonium 210	pCi/L	0.13	0.22	0.021	0.19	0.4	15	0.021	4.1	1.0525	0.7621
Radium 226	pCi/L	-0.18	0.23	-0.02	0.4	0.16	15	-0.18	6.31	2.08	1.077
Thorium 230	pCi/L	-0.02	0.02	-0.14	0.1	0.08	15	-0.14	0.3	0.1	0.089
Radionuclides - Total											
Lead 210	pCi/L	NM	NM	NM	NM	0.5	7	0.5	57	21.35	8.57
Polonium 210	pCi/L	NM	NM	NM	NM	0.5	7	0.5	13	4.76	2.96
Radium 226	pCi/L	NM	NM	NM	NM	6.3	7	1.1	120	47.54	32.84
Radon 222	pCi/L	276.8	336	223.8	585	987	15	196.7	180800	51765	21166
Thorium 230	pCi/L	NM	NM	NM	NM	0.1	7	0.1	0.1	0	0.1
Data Quality											
A/C Balance (± 5)	%	3.068	1.857	0.963	2.737	-0.06	15	-1.54	3.54	1.5	1.1
Anions	meq/L	14.07	12.99	13.99	33.56	26.9	15	11.17	33.56	8.112	18.479
Cations	meq/L	14.98	13.5	14.23	35.65	27	15	11.5	35.96	8.732	19.042
Solids, Total Dissolved Calculated	mg/L	956.6	868.6	962	2230	1725	15	732.5	2230	530.7	1215.5
TDS Balance (0.80 - 1.20)	dec. %	1	0.957	1.002	0.998	1.095	15	0.957	1.115	0.0505	1.0201

NM - not measured

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc.		Unkpapa Water Quality								
		Hydro ID				Summary Statistics on Hydro ID Means				
		690	693	703	704	n	Min	Max	St. Dev.	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**					
Field Parameters										
Water Level Elevation	ft AMSL	NM	NM	NM	NM	0				
Field Temperature	°C	14.12	14.52	11.9	20.1	4	11.9	20.1	3.5	15.2
Field pH	s.u.	9.36	9.27	11.13	9.37	4	9.27	11.13	0.9	9.78
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	0				
Field Conductivity	umhos/cm	2112	2083	2500	2100	4	2083	2500	201.2	2198.8
Field Turbidity	NTU	13.2	9.2	NM	NM	2	9.2	13.2	2.83	11.2
Physical Properties										
Conductivity @ 25 C	umhos/cm	2000	1650	2420	1570	4	1570	2420	388	1910
Non-polar Materials (SGT-HEM)	mg/L	NM	NM	NM	NM	0				
Oxidation-Reduction Potential	mV	220	210	88	160	4	88	220	60.3	169.5
pH	s.u.	9.27	9.03	11.4	9.46	4	9.03	11.4	1.088	9.79
Sodium Adsorption Ratio (SAR)	unitless	10	9.1	12	17	4	9.1	17	3.53	12.03
Solids, Total Dissolved TDS @ 180 C	mg/L	1400	1400	1400	1300	4	1300	1400	50	1380
Major Ions										
Alkalinity, Total as CaCO3	mg/L	38	68	148	74	4	38	148	46.7	82
Carbonate as CO3	mg/L	7	7	2.5	12	4	2.5	12	3.88	7.13
Bicarbonate as HCO3	mg/L	32	68	180	66	4	32	180	64.5	86.5
Calcium	mg/L	42.1	73.7	72.6	23	4	23	73.7	24.71	52.85
Chloride	mg/L	30	38	16	70	4	16	70	22.9	38.5
Fluoride	mg/L	0.5	0.6	0.3	0.8	4	0.3	0.8	0.21	0.55
Magnesium	mg/L	25.4	35.2	0.25	14.8	4	0.25	35.2	14.973	18.913
Nitrogen, Ammonia as N	mg/L	0.3	0.3	1.6	0.5	4	0.3	1.6	0.62	0.68
Nitrogen, Nitrate as N	mg/L	0.2	0.05	0.05	0.05	4	0.05	0.2	0.075	0.088
Nitrogen, Nitrite as N	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Potassium	mg/L	14	8.6	9.3	6.8	4	6.8	14	3.07	9.68
Sodium	mg/L	342	380	370	437	4	342	437	39.9	382.3
Sulfate	mg/L	807	886	828	872	4	807	886	37	848.3
Silica	mg/L	0.25	5	4.2	0.1	4	0.1	5	2.58	2.39
Metals - Dissolved										
Aluminum	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Arsenic	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Barium	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Boron	mg/L	0.7	1	0.3	0.9	4	0.3	1	0.31	0.73
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	4	0.0025	0.0025	0	0.0025
Chromium	mg/L	0.025	0.025	0.025	0.025	4	0.025	0.025	0	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	4	0.005	0.005	0	0.005
Iron	mg/L	0.015	0.06	0.05	0.015	4	0.015	0.06	0.0235	0.035
Lead	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Manganese	mg/L	0.005	0.005	0.005	0.005	4	0.005	0.005	0	0.005
Mercury	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Molybdenum	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Nickel	mg/L	0.025	0.025	0.025	0.025	4	0.025	0.025	0	0.025
Selenium	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	4	0.0025	0.0025	0	0.0025
Thorium 232	mg/L	0.0025	0.0025	0.0025	0.0025	4	0.0025	0.0025	0	0.0025
Uranium	mg/L	0.0002	0.0002	0.0003	0.0002	4	0.0002	0.0003	7.5E-05	0.0002
Vanadium	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Zinc	mg/L	0.005	0.005	0.03	0.005	4	0.005	0.03	0.0125	0.0113
Metals - Dissolved - Speciated										
Selenium-IV	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Selenium-VI	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Metals - Suspended										
Uranium	mg/L	0.0002	0.0002	0.0002	0.0002	4	0.0002	0.0002	0	0.0002
Metals - Total										
Antimony	mg/L	0.0015	0.0015	0.0015	0.0015	4	0.0015	0.0015	0	0.0015
Arsenic	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Barium	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Beryllium	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Boron	mg/L	0.7	1.1	0.4	0.45	4	0.4	1.1	0.32	0.66
Cadmium	mg/L	0.0025	0.0025	0.0025	0.0025	4	0.0025	0.0025	0	0.0025
Chromium	mg/L	0.025	0.025	0.025	0.025	4	0.025	0.025	0	0.025
Copper	mg/L	0.005	0.005	0.005	0.005	4	0.005	0.005	0	0.005
Iron	mg/L	1.48	1.44	0.68	0.87	4	0.68	1.48	0.403	1.118



Powertech (USA) Inc.		Unkpapa Water Quality								
		Hydro ID				Summary Statistics on Hydro ID Means				
		690	693	703	704	n	Min	Max	St. Dev.	Mean**
Analyte	Units	Mean**	Mean**	Mean**	Mean**					
Lead	mg/L	0.019	0.0015	0.007	0.0005	4	0.0005	0.019	0.0085	0.007
Manganese	mg/L	0.02	0.01	0.005	0.04	4	0.005	0.04	0.0155	0.0188
Mercury	mg/L	0.0001	0.0001	0.0005	0.0005	4	0.0001	0.0005	0.00023	0.0003
Molybdenum	mg/L	0.05	0.05	0.05	0.05	4	0.05	0.05	0	0.05
Nickel	mg/L	0.025	0.025	0.025	0.025	4	0.025	0.025	0	0.025
Selenium	mg/L	0.0005	0.005	0.0005	0.0005	4	0.0005	0.005	0.00225	0.0016
Silver	mg/L	0.0025	0.0025	0.0025	0.0025	4	0.0025	0.0025	0	0.0025
Strontium	mg/L	2.6	2.1	2.2	2.5	4	2.1	2.6	0.24	2.35
Thallium	mg/L	0.0005	0.0005	0.0005	0.0005	4	0.0005	0.0005	0	0.0005
Uranium	mg/L	0.0002	0.0002	0.0002	0.0002	4	0.0002	0.0002	0	0.0002
Zinc	mg/L	0.2	0.005	0.005	0.005	4	0.005	0.2	0.0975	0.0538
Radionuclides - Dissolved										
Gross Alpha	pCi/L	4.8	2.8	42.6	-3	4	-3	42.6	20.8	11.8
Gross Beta	pCi/L	6.1	2.7	14.2	-5	4	-5	14.2	7.96	4.5
Gross Gamma	pCi/L	1100	0	1100	830	4	0	1100	520	760
Lead 210	pCi/L	1.8	1.3	1	1.1	4	1	1.8	0.36	1.3
Polonium 210	pCi/L	0.7	0.3	-0.015	0.3	4	-0.015	0.7	0.2929	0.3213
Radium 226	pCi/L	0.2	0.6	0.4	0.04	4	0.04	0.6	0.243	0.31
Thorium 230	pCi/L	0	0	0.1	0	4	0	0.1	0.05	0.03
Radionuclides - Suspended										
Lead 210	pCi/L	-5.7	-1.3	1.1	-3	4	-5.7	1.1	2.86	-2.23
Polonium 210	pCi/L	0.1	0	0.047	-0.015	4	-0.015	0.1	0.0519	0.033
Radium 226	pCi/L	-0.3	0.2	-0.4	-0.2	4	-0.4	0.2	0.26	-0.18
Thorium 230	pCi/L	0	0	-0.2	0.3	4	-0.2	0.3	0.21	0.03
Radionuclides - Total										
Radon 222	pCi/L	194	424	153	188	4	153	424	124.2	240
Data Quality										
A/C Balance (± 5)	%	2.66	5.47	-1.35	-0.14	4	-1.35	5.47	3.045	1.66
Anions	meq/L	18.4	20.9	20.7	21.6	4	18.4	21.6	1	20
Cations	meq/L	19.4	23.3	20.1	21.6	4	19.4	23.3	1.73	21.1
Solids, Total Dissolved Calculated	mg/L	1280	1480	1400	1470	4	1280	1480	92	1408
TDS Balance (0.80 - 1.20)	dec. %	1.09	0.98	1.01	0.9	4	0.9	1.09	0.079	0.995

NM - not measured

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		2				Summary Statistics							
Quarter Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/26/2007	11/12/2007	2/12/2008	5/30/2008								
Time Collected		12:46 PM	9:25 AM	10:21 AM	3:21 PM								
Lab ID		R07090384-002	R07110146-003	R08020130-001	R08050427-003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	NM	NM	NM	NM	0	NM	NM	NM				
Field Temperature	°C	NM	12.38	11.92	13.46	3	11.92	13.46	12.59				
Field pH	s.u.	7.86	8.2	7.83	7.95	4	7.83	8.2	7.96				
Field Dissolved Oxygen	mg/L	NM	1.87	NM	NM	1	1.87	1.87	1.87				
Field Conductivity	umhos/cm	1070	1541	1579	1555	4	1070	1579	1436				
Field Turbidity	NTU	NM	1.6	0	0.4	3	0	1.6	0.67				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1570	1500	1580	1670	4	1500	1670	1580				
Oxidation-Reduction Potential	mV	NM	140	190	190	3	140	190	173				
pH	s.u.	7.91	7.85	7.93	7.92	4	7.85	7.93	7.903				
Sodium Adsorption Ratio (SAR)	unitless	NM	8.8	8.3	8.7	3	8.3	8.8	8.6				
Solids, Total Dissolved TDS @ 180 C	mg/L	1100	1100	1100	1100	4	1100	1100	1100				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	214	208	208	212	4	208	214	210.5				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	261	254	254	258	4	254	261	256.8				
Calcium	mg/L	48.5	51.7	54	57.8	4	48.5	57.8	53				
Chloride	mg/L	10	11	11	9	4	9	11	10.3				
Fluoride	mg/L	0.2	0.2	0.3	0.3	4	0.2	0.3	0.25				
Magnesium	mg/L	15.8	16.6	17.6	19	4	15.8	19	17.3				
Nitrogen, Ammonia as N	mg/L	< 0.1	0.4	0.4	0.3	4	< 0.1	0.4	0.29				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	11.5	11.4	11.5	11	4	11	11.5	11.35				
Sodium	mg/L	273	286	276	297	4	273	297	283				
Sulfate	mg/L	583	577	639	579	4	577	639	594.5				
Silica	mg/L	8	8.1	8.7	4.3	4	4.3	8.7	7.28				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	6E-04				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06				
Cadmium	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015				
Lead	mg/L	< 0.05	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.05	0.007				
Manganese	mg/L	0.08	0.08	0.09	0.08	4	0.08	0.09	0.083				
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Silver	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003				
Thorium 232	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	4	< 0.001	< 0.005	0.002				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Metals - Suspended													
Uranium	mg/L	3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04				
Metals - Total													
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002				
Arsenic	mg/L	NM	NM	0.001	0.004	2	0.001	0.004	0.003				
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				



Powertech (USA) Inc. Hydro ID		2				Summary Statistics							
Quarter Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/26/2007	11/12/2007	2/12/2008	5/30/2008								
Time Collected		12:46 PM	9:25 AM	10:21 AM	3:21 PM								
Lab ID		R07090384-002	R07110146-003	R08020130-001	R08050427-003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	1.48	1.54	2	1.48	1.54	1.51				
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	0.09	0.09	2	0.09	0.09	0.09				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	4E-04				
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	1.7	1.8	2	1.7	1.8	1.75				
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	4E-04	NM	< 3E-04	< 3E-04	3	< 3E-04	4E-04	2E-04				
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	1.4	8.7	6.7	8.2	4	1.4	8.7	6.25				
Gross Beta	pCi/L	9.3	12.4	22.1	10.3	4	9.3	22.1	13.53				
Gross Gamma	pCi/L	< 20	260	< 20	0 (20)*	4	< 20	260	70				
Lead 210	pCi/L	< 1	< 1	< 1	3.1 (8.2)*	4	< 1	3.1	1.15				
Polonium 210	pCi/L	< 1	2	2.1	0.1 (1)*	4	< 1	2.1	1.18				
Radium 226	pCi/L	< 0.2	1.3	1.1	2.1	4	< 0.2	2.1	1.15				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08				
Radionuclides - Suspended													
Lead 210	pCi/L	< 1	< 1	< 1	1.4 (8.7)*	4	< 1	1.4	0.73				
Polonium 210	pCi/L	< 1	< 1	< 1	0 (1)*	4	< 1	< 1	0.4				
Radium 226	pCi/L	2.2	< 0.2	< 0.2	0.2 (0.4)*	4	< 0.2	2.2	0.65				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1				
Radionuclides - Total													
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Radium 226	pCi/L	2.2	NM	NM	NM	1	2.2	2.2	2.2				
Radon 222	pCi/L	NM	674	792	727	3	674	792	731				
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality													
A/C Balance (± 5)	%	-2.46	0.663	-3.82	3.25	4	-3.82	3.25	-0.59				
Anions	meq/L	16.7	16.5	17.8	16.6	4	16.5	17.8	16.9				
Cations	meq/L	15.9	16.7	16.5	17.7	4	15.9	17.7	16.7				
Solids, Total Dissolved Calculated	mg/L	1070	1090	1160	1110	4	1070	1160	1108				
TDS Balance (0.80 - 1.20)	dec. %	1	0.97	0.94	0.96	4	0.94	1	1				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		4		Summary Statistics		
Month Sampled		Feb-08				
Date Collected		2/12/2008				
Time Collected		9:52 AM				
Lab ID		R08020130 -002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	13.66	1	13.66	13.66	13.66
Field pH	s.u.	7.9	1	7.9	7.9	7.9
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	4413	1	4413	4413	4413
Field Turbidity	NTU	0.8	1	0.8	0.8	0.8
Physical Properties						
Conductivity @ 25 C	umhos/cm	4400	1	4400	4400	4400
Oxidation-Reduction Potential	mV	120	1	120	120	120
pH	s.u.	7.94	1	7.94	7.94	7.94
Sodium Adsorption Ratio (SAR)	unitless	10	1	10	10	10
Solids, Total Dissolved TDS @ 180 C	mg/L	3700	1	3700	3700	3700
Major Ions						
Alkalinity, Total as CaCO3	mg/L	88	1	88	88	88
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	107	1	107	107	107
Calcium	mg/L	241	1	241	241	241
Chloride	mg/L	26	1	26	26	26
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	87	1	87	87	87
Ammonia	mg/L	NM	0	NM	NM	NM
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	7.8	1	7.8	7.8	7.8
Sodium	mg/L	716	1	716	716	716
Sulfate	mg/L	2440	1	2440	2440	2440
Silica	mg/L	10.2	1	10.2	10.2	10.2
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.7	1	0.7	0.7	0.7
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.07	1	0.07	0.07	0.07
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	4E-04	1	4E-04	4E-04	4E-04
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	0.001	1	0.001	0.001	0.001
Selenium-VI	mg/L	0.001	1	0.001	0.001	0.001
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 3E-04	< 3E-04	2E-04
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.002
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		4		Summary Statistics		
Month Sampled		Feb-08				
Date Collected		2/12/2008				
Time Collected		9:52 AM				
Lab ID		R08020130 -002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Boron	mg/L	0.6	1	0.6	0.6	0.6
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	1.32	1	1.32	1.32	1.32
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.06	1	0.06	0.06	0.06
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	0.02	1	0.02	0.02	0.02
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.002	1	0.002	0.002	0.002
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Strontium	mg/L	5.7	1	5.7	5.7	5.7
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Uranium	mg/L	< 5E-04	1	< 5E-04	< 5E-04	3E-04
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	3.5	1	3.5	3.5	3.5
Gross Beta	pCi/L	14.4	1	14.4	14.4	14.4
Lead 210	pCi/L	< 1	1	< 1	< 1	0.5
Polonium 210	pCi/L	2.7	1	2.7	2.7	2.7
Radium 226	pCi/L	1.1	1	1.1	1.1	1.1
Thorium 230	pCi/L	< 0.2	1	< 0.2	< 0.2	0.1
Gross Gamma	pCi/L	< 20	1	< 20	< 20	10
Radionuclides - Suspended						
Lead 210	pCi/L	< 1	1	< 1	< 1	0.5
Polonium 210	pCi/L	< 1	1	< 1	< 1	0.5
Radium 226	pCi/L	0.7	1	0.7	0.7	0.7
Thorium 230	pCi/L	< 0.2	1	< 0.2	< 0.2	0.1
Radionuclides - Total						
Radon 222	pCi/L	908	1	908	908	908
Data Quality						
A/C Balance (± 5)	%	-2.6	1	-2.6	-2.6	-2.6
Anions	meq/L	53.3	1	53.3	53.3	53.3
Cations	meq/L	50.6	1	50.6	50.6	50.6
Solids, Total Dissolved Calculated	mg/L	3600	1	3600	3600	3600
TDS Balance (0.80 - 1.20)	dec. %	1.02	1	1.02	1.02	1.02

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		7					Summary Statistics						
Month Sampled	4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected	10/3/2006	9/28/2007	11/12/2007	2/20/2008	5/29/2008								
Time Collected	11:12 AM	5:28 PM	8:20 AM	8:45 AM	11:10 AM								
Lab ID	R06100076-004	R07100002-009	R07110146-002	R08020220-002	R08050419-002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters													
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	0	NM	NM	NM			
Field Temperature	°C	9	13.11	13.31	6.78	13.3	5	6.78	13.31	11.1			
Field pH	s.u.	NM	7.39	8.32	8.05	8.07	4	7.39	8.32	7.958			
Field Dissolved Oxygen	mg/L	NM	NM	3.41	5.02	NM	2	3.41	5.02	4.215			
Field Conductivity	umhos/cm	NM	1185	1490	1451	1496	4	1185	1496	1406			
Field Turbidity	NTU	NM	NM	0.7	0.5	0.1	3	0.1	0.7	0.43			
Physical Properties													
Conductivity @ 25 C	umhos/cm	1530	1490	1440	1600	1650	5	1440	1650	1542			
Non-polar Materials (SGT-HEM)	mg/L	< 5	NM	NM	NM	NM	1	< 5	< 5	2.5			
Oxidation-Reduction Potential	mV	NM	NM	210	180	210	3	180	210	200			
pH	s.u.	8.08	8.13	8.05	8.14	8.17	5	8.05	8.17	8.114			
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	10	10	9.7	3	9.7	10	10			
Solids, Total Dissolved TDS @ 180 C	mg/L	1000	1000	1000	990	960	5	960	1000	1000			
Major Ions													
Alkalinity, Total as CaCO3	mg/L	170	176	170	170	170	5	170	176	171.2			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	210	215	207	207	207	5	207	215	209.2			
Calcium	mg/L	37	30	36	32.9	42.1	5	30	42.1	35.6			
Chloride	mg/L	13	12	12	11	11	5	11	13	11.8			
Fluoride	mg/L	0.37	0.3	0.4	0.3	0.4	5	0.3	0.4	0.35			
Magnesium	mg/L	16	11.5	15.3	14	18.2	5	11.5	18.2	15			
Nitrogen, Ammonia as N	mg/L	0.4	0.3	0.4	0.3	0.3	5	0.3	0.4	0.34			
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.06			
Nitrogen, Nitrite as N	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Potassium	mg/L	10	11	11.1	10.8	11	5	10	11.1	10.78			
Sodium	mg/L	270	237	289	276	300	5	237	300	270			
Sulfate	mg/L	546	586	567	583	514	5	514	586	559.2			
Silica	mg/L	7	7.5	7.8	7.5	4.1	5	4.1	7.8	6.78			
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Arsenic	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Cadmium	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.001	< 0.005	0.002			
Chromium	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	5	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001			
Manganese	mg/L	0.03	0.03	0.03	0.03	0.03	5	0.03	0.03	0.03			
Mercury	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Molybdenum	mg/L	< 0.005	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.005	< 0.1	0.04			
Nickel	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.005	9E-04			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.005	< 0.005	0.003			
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Uranium	mg/L	< 0.001	< 3E-04	< 3E-04	< 3E-04	< 3E-04	5	< 3E-04	< 0.001	2E-04			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005			
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Selenium-VI	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Metals - Suspended													
Uranium	mg/L	NM	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04			
Metals - Total													
Antimony	mg/L	NM	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002			
Arsenic	mg/L	NM	NM	NM	< 0.001	0.003	2	< 0.001	0.003	0.002			



Powertech (USA) Inc. Hydro ID		7					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/28/2007	11/12/2007	2/20/2008	5/29/2008								
Time Collected		11:12 AM	5:28 PM	8:20 AM	8:45 AM	11:10 AM								
Lab ID		R06100076 -004	R07100002 -009	R07110146 -002	R08020220 -002	R08050419 -002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Beryllium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Chromium	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	NM	0.41	0.41	2	0.41	0.41	0.41				
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	NM	0.03	0.03	2	0.03	0.03	0.03				
Mercury	mg/L	< 0.001	< 2E-04	< 0.001	< 0.001	< 1E-04	5	< 1E-04	< 0.001	3E-04				
Molybdenum	mg/L	NM	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	NM	1	1.1	2	1	1.1	1.05				
Thallium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	NM	NM	NM	< 3E-04	< 3E-04	2	< 3E-04	< 3E-04	2E-04				
Zinc	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved														
Actinium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Americium 241	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Barium 133	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 214	pCi/L	300	NM	NM	NM	NM	1	300	300	300				
Cesium 134	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 137	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cobalt 60	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Gross Alpha	pCi/L	17	4.4	7.2	15.5	3.3 (4.2)*	5	3.3	17	9.5				
Gross Beta	pCi/L	16	5	14.9	10.1	9.6	5	5	16	11.1				
Gross Gamma	pCi/L	< 20	1200	130	77	0 (20)*	5	< 20	1200	280				
Iodine 125	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Iodine 131	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 210	pCi/L	NM	< 1	< 1	24	0.5 (5.9)*	4	< 1	24	6.4				
Lead 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 214	pCi/L	350	NM	NM	NM	NM	1	350	350	350				
Manganese 54	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Polonium 210	pCi/L	NM	< 1	2.1	< 1	0 (1)*	4	< 1	2.1	0.78				
Potassium 40	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 223	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 224	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E901.1	pCi/L	300	NM	NM	NM	NM	1	300	300	300				
Radium 226 - Method E903.0	pCi/L	2.6	0.6	1.1	0.7	0.9	5	0.6	2.6	1.18				
Radium 228 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 228 - Method RA-05	pCi/L	< 1	NM	NM	NM	NM	1	< 1	< 1	0.5				
Thallium 208	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08				
Thorium 234	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Uranium 238	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Zinc 65	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radionuclides - Suspended														
Lead 210	pCi/L	NM	< 1	< 1	< 1	-7.4 (17.7)*	4	< 1	< 1	-1.5				
Polonium 210	pCi/L	NM	< 1	< 1	< 1	-0.1 (1)*	4	< 1	< 1	0.4				
Radium 226	pCi/L	NM	< 0.2	< 0.2	< 0.9	-0.3 (0.5)*	4	< 0.2	< 0.9	0.09				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	0.2	0.2 (0.2)*	4	< 0.2	< 0.2	0.15				
Radionuclides - Total														
Lead 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5				

Powertech (USA) Inc. Hydro ID		7					Summary Statistics						
Month Sampled	4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected	10/3/2006	9/28/2007	11/12/2007	2/20/2008	5/29/2008								
Time Collected	11:12 AM	5:28 PM	8:20 AM	8:45 AM	11:10 AM								
Lab ID	R06100076 -004	R07100002 -009	R07110146 -002	R08020220 -002	R08050419 -002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Polonium 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Radon 222	pCi/L	NM	NM	206	242	451	3	206	451	299.7			
Thorium 230	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality													
A/C Balance (± 5)	%	NM	-3.73	1.13	-2.5	8.11	4	-3.73	8.11	0.753			
Anions	meq/L	NM	14.1	15.6	15.9	14.4	4	14.1	15.9	15			
Cations	meq/L	NM	13	15.9	15.1	17	4	13	17	15.3			
Solids, Total Dissolved Calculated	mg/L	NM	896	1040	1050	1010	4	896	1050	999			
TDS Balance (0.80 - 1.20)	dec. %	NM	1.16	0.98	0.94	0.95	4	0.94	1.16	1.008			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.

Powertech (USA) Inc. Hydro ID		8				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/26/2007	11/27/2007	2/5/2008	5/29/2008					
Time Collected	2:33 PM	4:30 PM	10:20 AM	11:41 AM					
Lab ID	R07090384 -003	R07110303 -005	R08020052 -001	R08050419 -003	n	Minimum	Maximum	Mean**	
Analyte	Units	Result	Result	Result	Result				
Field Parameters									
Water Level Elevation	ft AMSL	3559	NM	NM	NM	1	3559	3559	3559
Field Temperature	°C	NM	9.99	10.87	14.98	3	9.99	14.98	11.95
Field pH	s.u.	7.8	7.88	7.89	7.98	4	7.8	7.98	7.888
Field Dissolved Oxygen	mg/L	NM	NM	5.42	NM	1	5.42	5.42	5.42
Field Conductivity	umhos/cm	908	1402	1367	1389	4	908	1402	1267
Field Turbidity	NTU	NM	NM	0.6	-0.4	2	-0.4	0.6	0.1
Physical Properties									
Conductivity @ 25 C	umhos/cm	1420	1420	1430	1560	4	1420	1560	1458
Oxidation-Reduction Potential	mV	NM	150	220	210	3	150	220	193
pH	s.u.	7.93	7.95	7.94	7.97	4	7.93	7.97	7.948
Sodium Adsorption Ratio (SAR)	unitless	NM	5.6	6.4	6.5	3	5.6	6.5	6.17
Solids, Total Dissolved TDS @ 180 C	mg/L	960	1000	1000	940	4	940	1000	1000
Major Ions									
Alkalinity, Total as CaCO3	mg/L	168	178	166	164	4	164	178	169
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	205	217	202	200	4	200	217	206
Calcium	mg/L	48.5	56.4	52.6	58.9	4	48.5	58.9	54.1
Chloride	mg/L	13	12	12	11	4	11	13	12
Fluoride	mg/L	0.4	0.4	0.5	0.4	4	0.4	0.5	0.43
Magnesium	mg/L	21.2	24.6	22.6	26.3	4	21.2	26.3	23.68
Nitrogen, Ammonia as N	mg/L	< 0.1	0.2	0.3	0.2	4	< 0.1	0.3	0.19
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Potassium	mg/L	14.2	15.7	14.7	13.7	4	13.7	15.7	14.58
Sodium	mg/L	224	199	222	240	4	199	240	221
Sulfate	mg/L	540	594	455	514	4	455	594	525.8
Silica	mg/L	6.9	6.7	7.3	3.5	4	3.5	7.3	6.1
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	< 0.001	< 0.001	0.001	4	< 0.001	< 0.001	8E-04
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	4	< 0.1	< 0.1	0.06
Cadmium	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.05	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.05	0.007
Manganese	mg/L	0.08	0.11	0.08	0.09	4	0.08	0.11	0.09
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	< 0.001	0.002	< 0.001	4	< 0.001	0.002	9E-04
Silver	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003
Thorium 232	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	4	< 0.001	< 0.005	0.002
Uranium	mg/L	< 3E-04	3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06
Zinc	mg/L	< 0.01	0.02	0.02	< 0.01	4	< 0.01	0.02	0.013
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	NM	< 0.001	0.001	< 0.001	3	< 0.001	< 0.001	7E-04
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04
Metals - Total									
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002
Arsenic	mg/L	NM	NM	< 0.001	0.003	2	< 0.001	0.003	0.002
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		8				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/26/2007	11/27/2007	2/5/2008	5/29/2008					
Time Collected	2:33 PM	4:30 PM	10:20 AM	11:41 AM					
Lab ID	R07090384-003	R07110303-005	R08020052-001	R08050419-003					
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04
Boron	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Iron	mg/L	NM	NM	0.21	0.23	2	0.21	0.23	0.22
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04
Manganese	mg/L	NM	NM	0.08	0.09	2	0.08	0.09	0.085
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	4E-04
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003
Strontium	mg/L	NM	NM	1.6	1.6	2	1.6	1.6	1.6
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04
Uranium	mg/L	< 3E-04	NM	< 3E-04	< 3E-04	3	< 3E-04	< 3E-04	2E-04
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005
Radionuclides - Dissolved									
Gross Alpha	pCi/L	5	8.7	5.4	3.2 (4)*	4	3.2	8.7	5.58
Gross Beta	pCi/L	15.9	25	21	16.2	4	15.9	25	19.5
Gross Gamma	pCi/L	650	970	< 20	0 (20)*	4	< 20	970	408
Lead 210	pCi/L	< 1	4	3	0.8 (5.9)*	4	< 1	4	2.1
Polonium 210	pCi/L	< 1	< 1	1.6	-0.2 (1)*	4	< 1	1.6	0.6
Radium 226	pCi/L	< 0.2	2.7	1.5	1.2	4	< 0.2	2.7	1.38
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1
Radionuclides - Suspended									
Lead 210	pCi/L	< 1	< 1	1.9	4.9 (17.7)*	4	< 1	4.9	1.95
Polonium 210	pCi/L	< 1	< 1	< 1	-0.1 (1)*	4	< 1	< 1	0.4
Radium 226	pCi/L	3.5	< 0.2	2.8	-0.4 (0.5)*	4	< 0.2	3.5	1.5
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08
Radionuclides - Total									
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5
Radium 226	pCi/L	3.5	NM	NM	NM	1	3.5	3.5	3.5
Radon 222	pCi/L	NM	123	329	514	3	123	514	322
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1
Data Quality									
A/C Balance (± 5)	%	-2.44	-3.23	5.03	5.33	4	-3.23	5.33	1.173
Anions	meq/L	15	14.8	13.1	14.3	4	13.1	15	14.3
Cations	meq/L	14.3	13.9	14.5	15.9	4	13.9	15.9	14.65
Solids, Total Dissolved Calculated	mg/L	962	939	879	973	4	879	973	938.3
TDS Balance (0.80 - 1.20)	dec. %	1	1.12	1.15	0.97	4	0.97	1.15	1.06

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		13					Summary Statistics						
Month Sampled	4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected	10/3/2006	9/27/2007	11/12/2007	2/20/2008	5/19/2008								
Time Collected	11:36 AM	3:45 PM	12:15 PM	2:41 PM	12:20 PM								
Lab ID	R06100076 -005	R07090385 -005	R07110146 -007	R08020220 -004	R08050251 -002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters													
Water Level Elevation	ft AMSL	NM	> 30 psi	NM	NM	NM	0	NM	NM	NM			
Field Temperature	°C	10	NM	12.74	6.1	10.56	4	6.1	12.74	9.85			
Field pH	s.u.	NM	7.86	7.96	8.14	7.85	4	7.85	8.14	7.953			
Field Dissolved Oxygen	mg/L	NM	0.35	1.42	3.01	1.28	4	0.35	3.01	1.515			
Field Conductivity	umhos/cm	NM	740	1257	1233	1282	4	740	1282	1128			
Field Turbidity	NTU	NM	NM	2.9	1.9	3	3	1.9	3	2.6			
Physical Properties													
Conductivity @ 25 C	umhos/cm	1290	1280	1140	1330	1420	5	1140	1420	1292			
Non-polar Materials (SGT-HEM)	mg/L	< 5	NM	NM	NM	NM	1	< 5	< 5	2.5			
Oxidation-Reduction Potential	mV	NM	NM	230	200	260	3	200	260	230			
pH	s.u.	7.93	7.83	7.75	8.05	7.96	5	7.75	8.05	7.904			
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	4.7	4.9	4.7	3	4.7	4.9	4.77			
Solids, Total Dissolved TDS @ 180 C	mg/L	880	890	890	850	880	5	850	890	878			
Major Ions													
Alkalinity, Total as CaCO3	mg/L	170	168	142	160	156	5	142	170	159			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	200	205	173	195	190	5	173	205	192.6			
Calcium	mg/L	61	57.4	61.3	58	72.4	5	57.4	72.4	62.02			
Chloride	mg/L	11	11	11	10	10	5	10	11	10.6			
Fluoride	mg/L	0.43	0.4	0.4	0.5	0.5	5	0.4	0.5	0.45			
Magnesium	mg/L	22	21	25.1	22.4	29.5	5	21	29.5	24			
Nitrogen, Ammonia as N	mg/L	0.2	0.6	0.1	< 0.1	< 0.1	5	< 0.1	0.6	0.2			
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Nitrogen, Nitrite as N	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Potassium	mg/L	9	11.3	11.7	11.8	11.5	5	9	11.8	11.06			
Sodium	mg/L	180	163	175	173	188	5	163	188	175.8			
Sulfate	mg/L	460	488	520	499	442	5	442	520	482			
Silica	mg/L	7	7.7	6.2	6.5	3.6	5	3.6	7.7	6.2			
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Arsenic	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Cadmium	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.001	< 0.005	0.002			
Chromium	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	5	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001			
Manganese	mg/L	0.11	0.1	0.2	0.16	0.2	5	0.1	0.2	0.15			
Mercury	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Molybdenum	mg/L	< 0.005	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.005	< 0.1	0.04			
Nickel	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	5	< 0.001	< 0.005	0.001			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.005	< 0.005	0.003			
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Uranium	mg/L	< 0.001	< 3E-04	< 3E-04	< 3E-04	< 3E-04	5	< 3E-04	< 0.001	2E-04			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Zinc	mg/L	< 0.01	< 0.01	0.04	< 0.01	0.01	5	< 0.01	0.04	0.013			
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Selenium-VI	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Metals - Suspended													
Uranium	mg/L	NM	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04			
Metals - Total													
Antimony	mg/L	NM	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002			
Arsenic	mg/L	NM	NM	NM	< 0.001	0.001	2	< 0.001	< 0.001	8E-04			



Powertech (USA) Inc. Hydro ID		13					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/27/2007	11/12/2007	2/20/2008	5/19/2008								
Time Collected		11:36 AM	3:45 PM	12:15 PM	2:41 PM	12:20 PM								
Lab ID		R06100076 -005	R07090385 -005	R07110146 -007	R08020220 -004	R08050251 -002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Beryllium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.001	2	< 0.001	< 0.005	0.002				
Chromium	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	NM	3.11	4.56	2	3.11	4.56	3.835				
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	NM	0.16	0.2	2	0.16	0.2	0.18				
Mercury	mg/L	< 0.001	< 2E-04	< 0.001	< 0.001	< 1E-04	5	< 1E-04	< 0.001	3E-04				
Molybdenum	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Nickel	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	NM	1.5	1.7	2	1.5	1.7	1.6				
Thallium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	NM	NM	NM	< 3E-04	< 3E-04	2	< 3E-04	< 3E-04	2E-04				
Zinc	mg/L	NM	NM	NM	0.07	0.04	2	0.04	0.07	0.055				
Radionuclides - Dissolved														
Actinium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Americium 241	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Barium 133	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 214	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 134	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 137	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cobalt 60	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Gross Alpha	pCi/L	12	8.9	7.5	19.5	4.2	5	4.2	19.5	10.42				
Gross Beta	pCi/L	17	9.6	11.7	11.4	10.3	5	9.6	17	12				
Gross Gamma	pCi/L	< 20	< 20	4300	< 20	0 (20)*	5	< 20	4300	870				
Iodine 125	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Iodine 131	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 210	pCi/L	NM	< 1	< 1	4.7	4.1 (16)*	4	< 1	4.7	2.45				
Lead 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 214	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Manganese 54	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Polonium 210	pCi/L	NM	< 1	2.6	1.1	-0.6 (1)*	4	< 1	2.6	0.9				
Potassium 40	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 223	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 224	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E903.0	pCi/L	2.1	1.8	1.6	1.1	1.6	5	1.1	2.1	1.64				
Radium 228 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 228 - Method RA-05	pCi/L	< 1	NM	NM	NM	NM	1	< 1	< 1	0.5				
Thallium 208	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 230	pCi/L	NM	0.4	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	0.4	0.15				
Thorium 234	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Uranium 238	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Zinc 65	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radionuclides - Suspended														
Lead 210	pCi/L	NM	< 1	< 1	< 1	-0.2 (8.8)*	4	< 1	< 1	0.3				
Polonium 210	pCi/L	NM	5.2	< 1	< 1	0 (1)*	4	< 1	5.2	1.55				
Radium 226	pCi/L	NM	< 0.2	< 0.2	1.6	0 (0.4)*	4	< 0.2	1.6	0.45				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	0.4	0.2 (0.2)*	4	< 0.2	0.4	0.2				
Radionuclides - Total														

Powertech (USA) Inc. Hydro ID		13					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/27/2007	11/12/2007	2/20/2008	5/19/2008								
Time Collected		11:36 AM	3:45 PM	12:15 PM	2:41 PM	12:20 PM								
Lab ID		R06100076	R07090385	R07110146	R08020220	R08050251								
		-005	-005	-007	-004	-002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Lead 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Polonium 210	pCi/L	NM	5.2	NM	NM	NM	1	5.2	5.2	5.2				
Radium 226	pCi/L	NM	1.1	NM	NM	NM	1	1.1	1.1	1.1				
Radon 222	pCi/L	335	NM	305	258	412	4	258	412	327.5				
Thorium 230	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality														
A/C Balance (± 5)	%	NM	-1.26	-3.53	-4.96	6.97	4	-4.96	6.97	-0.7				
Anions	meq/L	NM	12.3	14	13.9	12.6	4	12.3	14	13.2				
Cations	meq/L	NM	12	13.1	12.6	14.5	4	12	14.5	13.05				
Solids, Total Dissolved Calculated	mg/L	NM	781	898	888	857	4	781	898	856				
TDS Balance (0.80 - 1.20)	dec. %	NM	1.14	0.99	0.96	1.02	4	0.96	1.14	1.028				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		16					Summary Statistics						
Month Sampled	4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected	10/3/2006	9/27/2007	11/12/2007	3/30/2008	6/30/2008								
Time Collected	12:00 PM	7:18 PM	4:05 PM	3:19 PM	1:45 PM								
Lab ID	R06100076 -006	R07090385 -002	R07110146 -010	R08030315 -004	R08070005 -001								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters													
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	0	NM	NM	NM			
Field Temperature	°C	11	NM	12.95	8.84	15.01	4	8.84	15.01	11.95			
Field pH	s.u.	NM	7.13	NM	7.43	7.67	3	7.13	7.67	7.41			
Field Dissolved Oxygen	mg/L	NM	0.27	NM	0.23	NM	2	0.23	0.27	0.25			
Field Conductivity	umhos/cm	NM	740	1016	917	1159	4	740	1159	958			
Field Turbidity	NTU	NM	NM	NM	0	1	2	0	1	0.5			
Physical Properties													
Conductivity @ 25 C	umhos/cm	1260	1080	925	1050	1000	5	925	1260	1063			
Non-polar Materials (SGT-HEM)	mg/L	< 5	NM	NM	NM	NM	1	< 5	< 5	2.5			
Oxidation-Reduction Potential	mV	NM	NM	240	200	230	3	200	240	223			
pH	s.u.	7.44	7.43	7.48	7.57	7.38	5	7.38	7.57	7.46			
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	0.94	0.96	0.93	3	0.93	0.96	0.943			
Solids, Total Dissolved TDS @ 180 C	mg/L	940	810	760	780	780	5	760	940	814			
Major Ions													
Alkalinity, Total as CaCO3	mg/L	160	158	148	148	150	5	148	160	153			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	200	193	180	180	183	5	180	200	190			
Calcium	mg/L	140	108	103	113	125	5	103	140	118			
Chloride	mg/L	6.2	5	5	5	4	5	4	6.2	5.04			
Fluoride	mg/L	0.37	0.4	0.4	0.4	0.5	5	0.37	0.5	0.41			
Magnesium	mg/L	55	40.7	39.4	46.8	47	5	39.4	55	45.8			
Nitrogen, Ammonia as N	mg/L	< 0.1	0.4	< 0.1	< 0.1	< 0.1	5	< 0.1	0.4	0.12			
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	0.2	< 0.1	< 0.1	5	< 0.1	0.2	0.08			
Nitrogen, Nitrite as N	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Potassium	mg/L	16	16.6	16	15.1	16.7	5	15.1	16.7	16.08			
Sodium	mg/L	53	44	44.1	48	48	5	44	53	47.4			
Sulfate	mg/L	522	448	428	449	401	5	401	522	449.6			
Silica	mg/L	7	7.3	6.5	7	3.9	5	3.9	7.3	6.34			
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Arsenic	mg/L	< 0.01	0.001	< 0.001	< 0.001	0.001	5	< 0.001	< 0.01	0.002			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Boron	mg/L	0.12	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	0.12	0.064			
Cadmium	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.001	< 0.005	0.0021			
Chromium	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	5	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001			
Manganese	mg/L	0.19	0.16	< 0.01	0.13	0.14	5	< 0.01	0.19	0.125			
Mercury	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005			
Molybdenum	mg/L	< 0.005	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.005	< 0.1	0.04			
Nickel	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021			
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.005	0.0009			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.005	< 0.005	0.0025			
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025			
Uranium	mg/L	0.002	0.002	7E-04	7E-04	< 3E-04	5	< 0.0003	0.0021	0.0011			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05			
Zinc	mg/L	0.04	0.04	0.06	0.01	0.02	5	0.01	0.06	0.034			
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005			
Selenium-VI	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005			
Metals - Suspended													
Uranium	mg/L	NM	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 0.0003	< 0.0003	0.0002			
Metals - Total													
Antimony	mg/L	NM	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.0015			
Arsenic	mg/L	NM	NM	NM	0.004	< 0.002	2	< 0.002	0.004	0.0025			



Powertech (USA) Inc. Hydro ID		16					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/27/2007	11/12/2007	3/30/2008	6/30/2008								
Time Collected		12:00 PM	7:18 PM	4:05 PM	3:19 PM	1:45 PM								
Lab ID		R06100076-006	R07090385-002	R07110146-010	R08030315-004	R08070005-001								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Beryllium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Boron	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.0025				
Chromium	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	NM	0.25	0.26	2	0.25	0.26	0.255				
Lead	mg/L	NM	NM	NM	< 0.001	< 0.003	2	< 0.001	< 0.003	0.001				
Manganese	mg/L	NM	NM	NM	0.14	0.13	2	0.13	0.14	0.135				
Mercury	mg/L	< 0.001	< 2E-04	< 0.001	< 0.001	< 2E-04	5	< 0.0002	< 0.001	0.0003				
Molybdenum	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Nickel	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	NM	< 0.001	0.002	2	< 0.001	0.002	0.0013				
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.0025				
Strontium	mg/L	NM	NM	NM	2.7	2.7	2	2.7	2.7	2.7				
Thallium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Uranium	mg/L	NM	NM	NM	7E-04	< 3E-04	2	< 0.0003	0.0007	0.0004				
Zinc	mg/L	NM	NM	NM	0.02	< 0.03	2	< 0.03	< 0.03	0.018				
Radionuclides - Dissolved														
Actinium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Americium 241	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Barium 133	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 214	pCi/L	770	NM	NM	NM	NM	1	770	770	770				
Cesium 134	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 137	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cobalt 60	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Gross Alpha	pCi/L	110	62.7	12.2	85.7	28.3	5	12.2	110	60				
Gross Beta	pCi/L	50	33.1	24	47.2	19.3	5	19.3	50	35				
Gross Gamma	pCi/L	1600	< 20	2300	600	760	5	< 20	2300	1050				
Iodine 125	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Iodine 131	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 210	pCi/L	NM	< 1	2.2	-27 (1)*	2 (7.9)*	4	< 1	2.2	-5.58				
Lead 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 214	pCi/L	810	NM	NM	NM	NM	1	810	810	810				
Manganese 54	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Polonium 210	pCi/L	NM	< 1	< 1	0.2 (1)*	0 (1)*	4	< 1	< 1	0.3				
Potassium 40	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 223	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 224	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E901.1	pCi/L	770	NM	NM	NM	NM	1	770	770	770				
Radium 226 - Method E903.0	pCi/L	33.6	26.2	8.1	15.3	6.4	5	6.4	33.6	17.92				
Radium 228 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 228 - Method RA-05	pCi/L	< 1	NM	NM	NM	NM	1	< 1	< 1	0.5				
Thallium 208	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 230	pCi/L	NM	0.3	< 0.2	0.2 (0.2)*	0 (0.2)*	4	< 0.2	0.3	0.15				
Thorium 234	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Uranium 238	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Zinc 65	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radionuclides - Suspended														
Lead 210	pCi/L	NM	< 1	1.2	0 (1)*	-0.4 (10.6)*	4	< 1	1.2	0.33				
Polonium 210	pCi/L	NM	< 1	< 1	0.8 (1)*	0 (1)*	4	< 1	< 1	0.5				
Radium 226	pCi/L	NM	< 0.2	< 0.2	1.4	-0.3 (0.4)*	4	< 0.2	1.4	0.33				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	0.1 (0.2)*	0 (0.2)*	4	< 0.2	< 0.2	0.08				
Radionuclides - Total														
Lead 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5				



Powertech (USA) Inc. Hydro ID		16					Summary Statistics						
Month Sampled	4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected	10/3/2006	9/27/2007	11/12/2007	3/30/2008	6/30/2008								
Time Collected	12:00 PM	7:18 PM	4:05 PM	3:19 PM	1:45 PM								
Lab ID	R06100076 -006	R07090385 -002	R07110146 -010	R08030315 -004	R08070005 -001								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Polonium 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	NM	17.4	NM	NM	NM	1	17.4	17.4	17.4			
Radon 222	pCi/L	39000	NM	1090	28200	3150	4	1090	39000	17900			
Thorium 230	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality													
A/C Balance (± 5)	%	NM	-2.85	-1.55	-2	4.63	4	-2.85	4.63	-0.443			
Anions	meq/L	NM	11.8	11	12.5	11.5	4	11	12.5	11.7			
Cations	meq/L	NM	11.1	10.7	12	12.6	4	10.7	12.6	11.6			
Solids, Total Dissolved Calculated	mg/L	NM	715	686	786	743	4	686	786	732.5			
TDS Balance (0.80 - 1.20)	dec. %	NM	1.14	1.11	0.99	1.04	4	0.99	1.14	1.07			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		18					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/26/2007	11/12/2007	2/12/2008	5/30/2008								
Time Collected		10:07 AM	10:39 AM	10:15 AM	11:08 AM	11:12 AM								
Lab ID		R06100076	R07090384	R07110146	R08020130	R08050427								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters														
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	0	NM	NM	NM				
Field Temperature	°C	11	NM	12.58	12.02	12.26	4	11	12.58	11.97				
Field pH	s.u.	NM	8.11	8.28	8.07	8.14	4	8.07	8.28	8.15				
Field Dissolved Oxygen	mg/L	NM	0.86	1.76	NM	NM	2	0.86	1.76	1.31				
Field Conductivity	umhos/cm	NM	1157	1408	1446	1413	4	1157	1446	1356				
Field Turbidity	NTU	NM	NM	1.7	0.1	0.4	3	0.1	1.7	0.73				
Physical Properties														
Conductivity @ 25 C	umhos/cm	1430	1430	1360	1450	1470	5	1360	1470	1428				
Non-polar Materials (SGT-HEM)	mg/L	< 5	NM	NM	NM	NM	1	< 5	< 5	2.5				
Oxidation-Reduction Potential	mV	NM	NM	80	130	200	3	80	200	140				
pH	s.u.	8.11	8.09	8.02	8.11	8.1	5	8.02	8.11	8.086				
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	11	10	10	3	10	11	10.3				
Solids, Total Dissolved TDS @ 180 C	mg/L	950	990	960	960	940	5	940	990	960				
Major Ions														
Alkalinity, Total as CaCO3	mg/L	180	184	176	180	180	5	176	184	180				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	220	224	215	219	219	5	215	224	219.4				
Calcium	mg/L	34	31.8	33	34	38	5	31.8	38	34.2				
Chloride	mg/L	14	13	13	14	12	5	12	14	13.2				
Fluoride	mg/L	0.38	0.4	0.4	0.5	0.4	5	0.38	0.5	0.42				
Magnesium	mg/L	12	11.3	11.6	12.2	13.4	5	11.3	13.4	12.1				
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.2	0.2	0.1	5	0.1	0.2	0.18				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	7	7.2	7	7.3	6.9	5	6.9	7.3	7.08				
Sodium	mg/L	260	278	280	270	291	5	260	291	275.8				
Sulfate	mg/L	481	513	534	537	492	5	481	537	511.4				
Silica	mg/L	7	7.5	7.3	7.8	4.2	5	4.2	7.8	6.76				
Metals - Dissolved														
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.01	0.002	0.001	0.001	0.001	5	< 0.01	< 0.01	0.002				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.001	< 0.01	< 0.005	< 0.005	< 0.005	5	< 0.001	< 0.01	0.003				
Chromium	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	5	< 0.03	< 0.03	0.015				
Lead	mg/L	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.05	0.006				
Manganese	mg/L	0.06	0.06	0.06	0.07	0.06	5	0.06	0.07	0.062				
Mercury	mg/L	NM	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04				
Molybdenum	mg/L	< 0.005	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.005	< 0.1	0.04				
Nickel	mg/L	0.03	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.05	< 0.05	0.026				
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.005	9E-04				
Silver	mg/L	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	5	< 0.005	< 0.01	0.003				
Thorium 232	mg/L	NM	< 0.001	< 0.005	< 0.005	< 0.005	4	< 0.001	< 0.005	0.002				
Uranium	mg/L	0.007	0.006	0.007	0.007	0.006	5	0.006	0.007	0.006				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated														
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Selenium-VI	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Metals - Suspended														
Uranium	mg/L	NM	0.002	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	0.002	5E-04				
Metals - Total														
Antimony	mg/L	NM	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002				
Arsenic	mg/L	NM	NM	NM	0.002	0.003	2	0.002	0.003	0.003				



Powertech (USA) Inc. Hydro ID		18					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/26/2007	11/12/2007	2/12/2008	5/30/2008								
Time Collected		10:07 AM	10:39 AM	10:15 AM	11:08 AM	11:12 AM								
Lab ID		R06100076	R07090384	R07110146	R08020130	R08050427								
		-001	-001	-004	-003	-001								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Beryllium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Chromium	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	NM	1.04	1.11	2	1.04	1.11	1.075				
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	NM	0.06	0.06	2	0.06	0.06	0.06				
Mercury	mg/L	< 0.001	NM	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	4E-04				
Molybdenum	mg/L	NM	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	NM	0.6	0.7	2	0.6	0.7	0.65				
Thallium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	NM	NM	NM	0.006	0.006	2	0.006	0.006	0.006				
Zinc	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved														
Actinium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Americium 241	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Barium 133	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 214	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 134	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 137	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cobalt 60	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Gross Alpha	pCi/L	37	15.7	18.9	31.7	27.5	5	15.7	37	26.2				
Gross Beta	pCi/L	14	6.7	12.1	13	4.8	5	4.8	14	10.1				
Gross Gamma	pCi/L	< 20	510	370	190	0 (20)*	5	< 20	510	216				
Iodine 125	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Iodine 131	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 210	pCi/L	NM	< 1	4.6	< 1	-1 (8.2)*	4	< 1	4.6	1.15				
Lead 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 214	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Manganese 54	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Polonium 210	pCi/L	NM	< 1	< 1	2.2	0 (1)*	4	< 1	2.2	0.8				
Potassium 40	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 223	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 224	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E903.0	pCi/L	5.8	< 0.2	3.2	3.2	2.6	5	< 0.2	5.8	2.98				
Radium 228 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 228 - Method RA-05	pCi/L	2.3	NM	NM	NM	NM	1	2.3	2.3	2.3				
Thallium 208	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	0.2	0 (0.2)*	4	< 0.2	< 0.2	0.1				
Thorium 234	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Uranium 238	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Zinc 65	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radionuclides - Suspended														
Lead 210	pCi/L	NM	< 1	< 1	< 1	29.6	4	< 1	29.6	7.78				
Polonium 210	pCi/L	NM	6	< 1	< 1	1.7	4	< 1	6	2.2				
Radium 226	pCi/L	NM	4	< 0.2	1.1	1.1	4	< 0.2	4	1.6				
Thorium 230	pCi/L	NM	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1				
Radionuclides - Total														

Powertech (USA) Inc. Hydro ID		18					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/26/2007	11/12/2007	2/12/2008	5/30/2008								
Time Collected		10:07 AM	10:39 AM	10:15 AM	11:08 AM	11:12 AM								
Lab ID		R06100076 -001	R07090384 -001	R07110146 -004	R08020130 -003	R08050427 -001								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Lead 210	pCi/L	NM	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Polonium 210	pCi/L	NM	6	NM	NM	NM	1	6	6	6				
Radium 226	pCi/L	NM	4	NM	NM	NM	1	4	4	4				
Radon 222	pCi/L	762	NM	945	1220	1210	4	762	1220	1034				
Thorium 230	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality														
A/C Balance (± 5)	%	NM	0.211	-0.239	-1.77	5.45	4	-1.77	5.45	0.913				
Anions	meq/L	NM	14.7	15	15.2	14.2	4	14.2	15.2	14.78				
Cations	meq/L	NM	14.8	15	14.7	15.8	4	14.7	15.8	15.08				
Solids, Total Dissolved Calculated	mg/L	NM	965	994	1000	973	4	965	1000	1000				
TDS Balance (0.80 - 1.20)	dec. %	NM	1.03	0.97	0.96	0.96	4	0.96	1.03	0.98				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		41	Summary Statistics			
Month Sampled		Oct-06				
Date Collected		10/3/2006				
Time Collected		10:49 AM				
Lab ID		R06100076 -003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	10	1	10	10	10
Field pH	s.u.	NM	0	NM	NM	NM
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	NM	0	NM	NM	NM
Field Turbidity	NTU	NM	0	NM	NM	NM
Physical Properties						
Conductivity @ 25 C	umhos/cm	1380	1	1380	1380	1380
Non-polar Materials (SGT-HEM)	mg/L	< 5	1	< 5	< 5	2.5
pH	s.u.	7.92	1	7.92	7.92	7.92
Solids, Total Dissolved TDS @ 180 C	mg/L	910	1	910	910	910
Major Ions						
Alkalinity, Total as CaCO3	mg/L	180	1	180	180	180
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	220	1	220	220	220
Calcium	mg/L	41	1	41	41	41
Chloride	mg/L	14	1	14	14	14
Fluoride	mg/L	0.37	1	0.37	0.37	0.37
Magnesium	mg/L	16	1	16	16	16
Nitrogen, Ammonia as N	mg/L	0.2	1	0.2	0.2	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	8	1	8	8	8
Sodium	mg/L	230	1	230	230	230
Sulfate	mg/L	458	1	458	458	458
Silica	mg/L	7	1	7	7	7
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Chromium	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Manganese	mg/L	0.1	1	0.1	0.1	0.1
Molybdenum	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Nickel	mg/L	0.02	1	0.02	0.02	0.02
Selenium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.007	1	0.007	0.007	0.007
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	0.01	1	0.01	0.01	0.01
Metals - Total						
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Radionuclides - Dissolved						
Actinium 228	pCi/L	< 20	1	< 20	< 20	10
Americium 241	pCi/L	< 20	1	< 20	< 20	10
Barium 133	pCi/L	< 20	1	< 20	< 20	10
Bismuth 212	pCi/L	< 20	1	< 20	< 20	10
Bismuth 214	pCi/L	210	1	210	210	210
Cesium 134	pCi/L	< 20	1	< 20	< 20	10
Cesium 137	pCi/L	< 20	1	< 20	< 20	10
Cobalt 60	pCi/L	< 20	1	< 20	< 20	10
Gross Alpha	pCi/L	88	1	88	88	88
Gross Beta	pCi/L	32	1	32	32	32



Powertech (USA) Inc. Hydro ID		41	Summary Statistics			
Month Sampled		Oct-06				
Date Collected		10/3/2006				
Time Collected		10:49 AM				
Lab ID		R06100076 -003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Gross Gamma	pCi/L	410	1	410	410	410
Iodine 125	pCi/L	< 20	1	< 20	< 20	10
Iodine 131	pCi/L	< 20	1	< 20	< 20	10
Lead 212	pCi/L	< 20	1	< 20	< 20	10
Lead 214	pCi/L	190	1	190	190	190
Manganese 54	pCi/L	< 20	1	< 20	< 20	10
Potassium 40	pCi/L	< 20	1	< 20	< 20	10
Radium 223	pCi/L	< 20	1	< 20	< 20	10
Radium 224	pCi/L	< 20	1	< 20	< 20	10
Radium 226 - Method E901.1	pCi/L	210	1	210	210	210
Radium 226 - Method E903.0	pCi/L	16.5	1	16.5	16.5	16.5
Radium 228 - Method E901.1	pCi/L	< 20	1	< 20	< 20	10
Radium 228 - Method RA-05	pCi/L	< 1	1	< 1	< 1	0.5
Thallium 208	pCi/L	< 20	1	< 20	< 20	10
Thorium 228	pCi/L	< 20	1	< 20	< 20	10
Thorium 234	pCi/L	< 20	1	< 20	< 20	10
Uranium 238	pCi/L	< 20	1	< 20	< 20	10
Zinc 65	pCi/L	< 20	1	< 20	< 20	10
Radionuclides - Total						
Radon 222	pCi/L	9670	1	9670	9670	9670

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		42					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/28/2007	11/12/2007	2/5/2008	5/30/2008								
Time Collected		10:18 AM	11:34 AM	11:20 AM	2:10 PM	11:55 AM								
Lab ID		R06100076	R07100002	R07110146	R08020052	R08050427								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters														
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	0	NM	NM	NM				
Field Temperature	°C	12	NM	12.58	0.75	12.2	4	0.75	12.58	9.383				
Field pH	s.u.	NM	7.82	8.03	8.14	8.01	4	7.82	8.14	8				
Field Dissolved Oxygen	mg/L	NM	NM	1.32	5.25	NM	2	1.32	5.25	3.285				
Field Conductivity	umhos/cm	NM	1079	1393	1463	1392	4	1079	1463	1332				
Field Turbidity	NTU	NM	NM	0.5	0.5	0.2	3	0.2	0.5	0.4				
Physical Properties														
Conductivity @ 25 C	umhos/cm	1410	1390	1310	1420	1510	5	1310	1510	1408				
Non-polar Materials (SGT-HEM)	mg/L	< 5	NM	NM	NM	NM	1	< 5	< 5	2.5				
Oxidation-Reduction Potential	mV	NM	NM	240	170	200	3	170	240	203				
pH	s.u.	8.01	8.02	7.95	8.08	8.05	5	7.95	8.08	8.022				
Sodium Adsorption Ratio (SAR)	unitless	NM	NM	10	11	9.7	3	9.7	11	10.2				
Solids, Total Dissolved TDS @ 180 C	mg/L	940	960	940	980	930	5	930	980	950				
Major Ions														
Alkalinity, Total as CaCO3	mg/L	180	180	174	180	176	5	174	180	178				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	5	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	220	219	212	219	215	5	212	220	217				
Calcium	mg/L	35	30	34	35.3	39.4	5	30	39.4	34.74				
Chloride	mg/L	14	12	13	12	11	5	11	14	12.4				
Fluoride	mg/L	0.39	0.4	0.4	0.4	0.4	5	0.39	0.4	0.4				
Magnesium	mg/L	12	9.4	11.8	12.3	13.5	5	9.4	13.5	11.8				
Nitrogen, Ammonia as N	mg/L	0.2	0.1	0.1	0.1	0.1	5	0.1	0.2	0.12				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	0.2	< 0.1	< 0.1	5	< 0.1	0.2	0.08				
Nitrogen, Nitrite as N	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	7	7.1	7.2	7.8	6.8	5	6.8	7.8	7.18				
Sodium	mg/L	250	242	270	289	277	5	242	289	265.6				
Sulfate	mg/L	473	505	519	505	466	5	466	519	493.6				
Silica	mg/L	7	7.1	7.2	7.4	4.1	5	4.1	7.4	6.56				
Metals - Dissolved														
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.01	< 0.001	< 0.001	0.001	< 0.001	5	< 0.001	< 0.01	0.002				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	5	< 0.1	< 0.1	0.06				
Cadmium	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.001	< 0.005	0.002				
Chromium	mg/L	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.01	< 0.05	0.021				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	5	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	5	< 0.03	< 0.03	0.015				
Lead	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	5	< 0.001	< 0.01	0.001				
Manganese	mg/L	0.08	0.06	0.08	0.09	0.08	5	0.06	0.09	0.078				
Mercury	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Molybdenum	mg/L	< 0.005	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.005	< 0.1	0.04				
Nickel	mg/L	0.02	< 0.05	< 0.05	< 0.05	< 0.05	5	< 0.05	< 0.05	0.024				
Selenium	mg/L	< 0.005	< 0.001	< 0.001	0.001	< 0.001	5	< 0.001	< 0.005	0.001				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5	< 0.005	< 0.005	0.003				
Thorium 232	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Uranium	mg/L	0.04	0.015	0.032	0.019	0.014	5	0.014	0.04	0.024				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	0.01	0.03	0.02	0.02	5	< 0.01	0.03	0.017				
Metals - Dissolved - Speciated														
Selenium-IV	mg/L	NM	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Selenium-VI	mg/L	NM	NM	< 0.001	0.001	< 0.001	3	< 0.001	< 0.001	7E-04				
Metals - Suspended														
Uranium	mg/L	NM	0.003	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	0.003	8E-04				
Metals - Total														
Antimony	mg/L	NM	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002				
Arsenic	mg/L	NM	NM	NM	0.002	0.004	2	0.002	0.004	0.003				



Powertech (USA) Inc. Hydro ID		42					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/28/2007	11/12/2007	2/5/2008	5/30/2008								
Time Collected		10:18 AM	11:34 AM	11:20 AM	2:10 PM	11:55 AM								
Lab ID		R06100076	R07100002	R07110146	R08020052	R08050427								
		-002	-003	-006	-004	-002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Barium	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Beryllium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Chromium	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	NM	0.15	0.16	2	0.15	0.16	0.155				
Lead	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	NM	0.08	0.08	2	0.08	0.08	0.08				
Mercury	mg/L	< 0.001	< 2E-04	< 0.001	< 0.001	< 1E-04	5	< 1E-04	< 0.001	3E-04				
Molybdenum	mg/L	NM	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	NM	0.7	0.7	2	0.7	0.7	0.7				
Thallium	mg/L	NM	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	NM	NM	NM	0.02	0.015	2	0.015	0.02	0.017				
Zinc	mg/L	NM	NM	NM	0.03	0.02	2	0.02	0.03	0.025				
Radionuclides - Dissolved														
Actinium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Americium 241	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Barium 133	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Bismuth 214	pCi/L	1600	NM	NM	NM	NM	1	1600	1600	1600				
Cesium 134	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cesium 137	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Cobalt 60	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Gross Alpha	pCi/L	560	371	375	526	558	5	371	560	478				
Gross Beta	pCi/L	110	122	173	93.5	159	5	93.5	173	131.5				
Gross Gamma	pCi/L	3400	1300	70000	2800	150	5	150	70000	15500				
Iodine 125	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Iodine 131	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 210	pCi/L	NM	< 1	21	15	17.8	4	< 1	21	13.6				
Lead 212	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Lead 214	pCi/L	1800	NM	NM	NM	NM	1	1800	1800	1800				
Manganese 54	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Polonium 210	pCi/L	NM	< 1	< 1	5.5	1.6	4	< 1	5.5	2.03				
Potassium 40	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 223	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 224	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 226 - Method E901.1	pCi/L	1600	NM	NM	NM	NM	1	1600	1600	1600				
Radium 226 - Method E903.0	pCi/L	87.6	96.5	102	100	100	5	87.6	102	97.2				
Radium 228 - Method E901.1	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radium 228 - Method RA-05	pCi/L	< 1	NM	NM	NM	NM	1	< 1	< 1	0.5				
Thallium 208	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 228	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Thorium 230	pCi/L	NM	< 0.2	0.5	< 0.2	0.1 (0.2)*	4	< 0.2	0.5	0.2				
Thorium 234	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Uranium 238	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Zinc 65	pCi/L	< 20	NM	NM	NM	NM	1	< 20	< 20	10				
Radionuclides - Suspended														
Lead 210	pCi/L	NM	57	< 1	17	14	4	< 1	57	22.1				
Polonium 210	pCi/L	NM	13	1.1	2	0.3 (1)*	4	0.3	13	4.1				
Radium 226	pCi/L	NM	< 0.2	< 0.2	5.1	-0.3 (0.4)*	4	< 0.2	5.1	1.25				
Thorium 230	pCi/L	NM	< 0.2	0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.1				
Radionuclides - Total														

Powertech (USA) Inc. Hydro ID		42					Summary Statistics							
Month Sampled		4Q06	3Q07	4Q07	1Q08	2Q08								
Date Collected		10/3/2006	9/28/2007	11/12/2007	2/5/2008	5/30/2008								
Time Collected		10:18 AM	11:34 AM	11:20 AM	2:10 PM	11:55 AM								
Lab ID		R06100076	R07100002	R07110146	R08020052	R08050427								
		-002	-003	-006	-004	-002								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Lead 210	pCi/L	NM	57	NM	NM	NM	1	57	57	57				
Polonium 210	pCi/L	NM	13	NM	NM	NM	1	13	13	13				
Radium 226	pCi/L	NM	79.7	NM	NM	NM	1	79.7	79.7	79.7				
Radon 222	pCi/L	2E+05	NM	1E+05	2E+05	2E+05	4	1E+05	2E+05	2E+05				
Thorium 230	pCi/L	NM	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality														
A/C Balance (± 5)	%	NM	-1.32	-0.342	3.65	6.08	4	-1.32	6.08	2.017				
Anions	meq/L	NM	13.3	14.7	14.5	13.6	4	13.3	14.7	14.03				
Cations	meq/L	NM	13	14.6	15.6	15.3	4	13	15.6	14.63				
Solids, Total Dissolved Calculated	mg/L	NM	858	969	971	932	4	858	971	932.5				
TDS Balance (0.80 - 1.20)	dec. %	NM	1.12	0.97	1.01	1	4	0.97	1.12	1.025				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		49	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		6:26 PM				
Lab ID		R08070035-003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	3642	1	3641.7	3641.7	3641.7
Field Temperature	°C	14	1	14	14	14
Field pH	s.u.	7.77	1	7.77	7.77	7.77
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	1381	1	1381	1381	1381
Field Turbidity	NTU	0.5	1	0.5	0.5	0.5
Physical Properties						
Conductivity @ 25 C	umhos/cm	1200	1	1200	1200	1200
Oxidation-Reduction Potential	mV	160	1	160	160	160
pH	s.u.	7.91	1	7.91	7.91	7.91
Sodium Adsorption Ratio (SAR)	unitless	6.1	1	6.1	6.1	6.1
Solids, Total Dissolved TDS @ 180 C	mg/L	930	1	930	930	930
Major Ions						
Alkalinity, Total as CaCO3	mg/L	168	1	168	168	168
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	205	1	205	205	205
Calcium	mg/L	62.2	1	62.2	62.2	62.2
Chloride	mg/L	12	1	12	12	12
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	25.2	1	25.2	25.2	25.2
Nitrogen, Ammonia as N	mg/L	0.2	1	0.2	0.2	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	10.4	1	10.4	10.4	10.4
Sodium	mg/L	226	1	226	226	226
Sulfate	mg/L	465	1	465	465	465
Silica	mg/L	4.6	1	4.6	4.6	4.6
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.14	1	0.14	0.14	0.14
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.001	1	0.0011	0.0011	0.0011
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.002	1	< 0.002	< 0.002	0.001
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		49	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		6:26 PM				
Lab ID		R08070035 -003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.14	1	0.14	0.14	0.14
Lead	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Manganese	mg/L	0.12	1	0.12	0.12	0.12
Mercury	mg/L	< 2E-04	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.003	1	0.003	0.003	0.003
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	1.1	1	1.1	1.1	1.1
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.001	1	0.0011	0.0011	0.0011
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	8.2	1	8.2	8.2	8.2
Gross Beta	pCi/L	7.1	1	7.1	7.1	7.1
Lead 210	pCi/L	1.6 (7.9)*	1	1.6	1.6	1.6
Polonium 210	pCi/L	0 (1)*	1	0	0	0
Radium 226	pCi/L	2.2	1	2.2	2.2	2.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	920	1	920	920	920
Radionuclides - Suspended						
Lead 210	pCi/L	1.3 (9.9)*	1	1.3	1.3	1.3
Polonium 210	pCi/L	-0.1 (1)*	1	-0.1	-0.1	-0.1
Radium 226	pCi/L	0.2 (0.3)*	1	0.2	0.2	0.2
Thorium 230	pCi/L	0.2 (0.2)*	1	0.2	0.2	0.2
Radionuclides - Total						
Radon 222	pCi/L	477	1	477	477	477
Data Quality						
A/C Balance (± 5)	%	6.51	1	6.51	6.51	6.51
Anions	meq/L	13.4	1	13.4	13.4	13.4
Cations	meq/L	15.3	1	15.3	15.3	15.3
Solids, Total Dissolved Calculated	mg/L	915	1	915	915	915
TDS Balance (0.80 - 1.20)	dec. %	1.02	1	1.02	1.02	1.02

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		135		Summary Statistics				
Month Sampled	Mar-08	Mar-08						
Date Collected	3/13/2008	3/13/2008						
Time Collected	11:45 AM	12:15 PM						
Lab ID	R08030154-002	R08030154-001						
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**	
Field Parameters								
Water Level Elevation	ft AMSL	3663	3663	2	3663	3663	3663	
Field Temperature	°C	17.83	7.03	2	7.03	17.83	12.43	
Field pH	s.u.	6.79	7.13	2	6.79	7.13	6.96	
Field Dissolved Oxygen	mg/L	1.6	1.64	2	1.6	1.64	1.62	
Field Conductivity	umhos/cm	136	2246	2	136	2246	1191	
Field Turbidity	NTU	0.5	6.9	2	0.5	6.9	3.7	
Physical Properties								
Conductivity @ 25 C	umhos/cm	131	2700	2	131	2700	1420	
pH	s.u.	6.49	7.4	2	6.49	7.4	6.95	
Sodium Adsorption Ratio (SAR)	unitless	< 0.1	2.2	2	< 0.1	2.2	1.13	
Solids, Total Dissolved TDS @ 180 C	mg/L	92	2400	2	92	2400	1250	
Major Ions								
Alkalinity, Total as CaCO3	mg/L	12	254	2	12	254	133	
Carbonate as CO3	mg/L	< 5	< 5	2	< 5	< 5	2.5	
Bicarbonate as HCO3	mg/L	15	310	2	15	310	163	
Calcium	mg/L	< 0.5	292	2	< 0.5	292	146.1	
Chloride	mg/L	2	19	2	2	19	10.5	
Fluoride	mg/L	< 0.1	0.2	2	< 0.1	0.2	0.13	
Magnesium	mg/L	< 0.5	149	2	< 0.5	149	74.6	
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Potassium	mg/L	< 0.5	20.1	2	< 0.5	20.1	10.18	
Sodium	mg/L	12	185	2	12	185	98.5	
Sulfate	mg/L	39	1460	2	39	1460	750	
Silica	mg/L	< 0.5	8	2	< 0.5	8	4.1	
Metals - Dissolved								
Aluminum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Arsenic	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04	
Barium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Boron	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Cadmium	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003	
Chromium	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025	
Copper	mg/L	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005	
Iron	mg/L	< 0.03	6.64	2	< 0.03	6.64	3.328	
Lead	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04	
Manganese	mg/L	< 0.01	0.13	2	< 0.01	0.13	0.068	
Mercury	mg/L	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04	
Molybdenum	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Nickel	mg/L	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025	
Selenium	mg/L	< 0.001	0.002	2	< 0.001	0.002	0.001	
Silver	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003	
Thorium 232	mg/L	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003	
Uranium	mg/L	< 3E-04	0.016	2	< 3E-04	0.016	0.008	
Vanadium	mg/L	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05	
Zinc	mg/L	< 0.01	0.01	2	< 0.01	< 0.01	0.008	
Radionuclides - Dissolved								
Gross Alpha	pCi/L	2.5	66.5	2	2.5	66.5	34.5	
Gross Beta	pCi/L	0 (2.4)*	28.5	1	28.5	28.5	14.25	
Lead 210	pCi/L	3.9	0.3	2	0.3	3.9	2.1	
Polonium 210	pCi/L	0.7	0.6	2	0.6	0.7	0.65	
Radium 226	pCi/L	-0.1 (0.2)*	2.3	1	2.3	2.3	1.09	
Thorium 230	pCi/L	0.2	1.8	2	0.2	1.8	1	
Gross Gamma	pCi/L	< 20	90	2	< 20	90	50	
Radionuclides - Total								
Radon 222	pCi/L	218	948	2	218	948	583	

Powertech (USA) Inc. Hydro ID		135		Summary Statistics			
Month Sampled		Mar-08	Mar-08				
Date Collected		3/13/2008	3/13/2008				
Time Collected		11:45 AM	12:15 PM				
Lab ID		R08030154 -002	R08030154 -001				
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**
Data Quality							
A/C Balance (± 5)	%	-33.6	-0.798	2	-33.6	-0.8	-17.2
Anions	meq/L	1.1	35.9	2	1.1	35.9	18.5
Cations	meq/L	0.547	35.4	2	0.547	35.4	17.97
Solids, Total Dissolved Calculated	mg/L	61	2280	2	61	2280	1171
TDS Balance (0.80 - 1.20)	dec. %	1.51	1.07	2	1.07	1.51	1.29

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		615							
Month Sampled		Apr-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		4/1/2008	4/21/2008	5/28/2008	6/25/2008	7/14/2008	8/20/2008	9/22/2008	10/20/2008
Time Collected		2:34 PM	4:16 PM	7:20 PM	1:55 PM	11:50 AM	1:26 PM	4:30 PM	4:20 PM
Lab ID		R08040028 -001	R08040250 -004	R08050406 -005	R08060452 -002	R08070244 -002	R08080332 -004	R08090314 -005	R08100295 -010
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3690	3690	3690	3690	3689	3689	3689	3689
Field Temperature	°C	14.95	14.99	14.99	15.13	15.21	15.16	14.98	14.8
Field pH	s.u.	7.22	7.22	7.19	7.01	7.09	6.39	7.16	7.14
Field Dissolved Oxygen	mg/L	0.24	0.27	0.15	0.09	0.11	NM	0.73	NM
Field Conductivity	umhos/cm	925	1066	1039	1088	1089	998	997	1120
Field Turbidity	NTU	-0.2	3.8	0.1	0	4.6	4.2	3.9	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1050	1040	1050	1110	1090	1250	1010	1100
Oxidation-Reduction Potential	mV	210	300	200	140	130	330	240	250
pH	s.u.	7.36	7.43	7.16	7.48	7.29	8.03	7.49	7.77
Sodium Adsorption Ratio (SAR)	unitless	3.4	3.5	3.4	3.4	3.8	3.5	3.5	3.6
Solids, Total Dissolved TDS @ 180 C	mg/L	670	750	710	680	710	740	670	720
Major Ions									
Alkalinity, Total as CaCO3	mg/L	136	136	138	138	138	142	138	136
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	166	166	168	168	168	173	168	166
Calcium	mg/L	70.9	73	79.2	71.8	71.8	78	75.3	71
Chloride	mg/L	6	4	5	5	5	5	5	5
Fluoride	mg/L	0.5	0.4	0.5	0.5	0.6	0.6	0.6	0.5
Magnesium	mg/L	21.7	22.9	23.2	21.6	21.7	22.7	21.8	20.7
Nitrogen, Nitrate as N	mg/L	< 0.1	0.06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	8.7	8.7	9	8.7	11.7	9.1	8.9	8.7
Sodium	mg/L	127	132	134	127	142	138	136	133
Sulfate	mg/L	378	371	399	369	430	401	421	414
Silica	mg/L	7.6	7.8	4.4	4	2	4.1	9.1	8.7
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.02	0.02	0.013	0.016	0.018	0.018	0.02	0.012
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.7	0.79	0.1	0.42	0.54	0.73	0.95	0.1
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.003	0.003	0.002	0.002	0.003	0.002	0.003	0.002
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	0.003
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.024	0.024	0.024	0.024	0.023	0.021	0.022	0.024
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001



Powertech (USA) Inc. Hydro ID		615							
Month Sampled		Apr-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		4/1/2008	4/21/2008	5/28/2008	6/25/2008	7/14/2008	8/20/2008	9/22/2008	10/20/2008
Time Collected		2:34 PM	4:16 PM	7:20 PM	1:55 PM	11:50 AM	1:26 PM	4:30 PM	4:20 PM
Lab ID		R08040028 -001	R08040250 -004	R08050406 -005	R08060452 -002	R08070244 -002	R08080332 -004	R08090314 -005	R08100295 -010
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	1.35	1.35	1.4	1.5	1.52	1.32	1.4	1.34
Lead	mg/L	0.002	< 0.001	< 0.001	0.013	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.002	0.003	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.003	0.003	0.003	0.002	0.003	0.002	0.002	0.003
Zinc	mg/L	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	18.2	15.1	15.3	38.3	15.3	17.3	21.5	20.9
Gross Beta	pCi/L	11.6	12.1	3.7	12.6	7	9.6	9.9	12
Lead 210	pCi/L	-2.5 (1)*	0 (1)*	3.8 (8.2)*	1.1 (11.4)*	-0.8 (9.2)*	4.6 (10.7)*	-1 (9)*	-1 (6.1)*
Polonium 210	pCi/L	0.6 (1)*	0.9 (1)*	-0.1 (1)*	0.5 (1)*	0 (1)*	0 (1)*	0.9 (1)*	0.1 (1)*
Radium 226	pCi/L	1.8	2	2	7.2	1.2	1.8	2	2.7
Thorium 230	pCi/L	0.2	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	< 0.2	0.1 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	170	0 (20)*	0 (20)*	0 (20)*	0	1100
Radionuclides - Suspended									
Lead 210	pCi/L	27.1	-3.2 (1)*	1.5 (17.7)*	3.5 (7.4)*	-2 (21.4)*	-6 (17.8)*	-0.2 (7.8)*	-3 (6.8)*
Polonium 210	pCi/L	0.4	0.4 (1)*	0 (1)*	0 (1)*	0 (1)*	0 (1)*	-0.04 (1)*	0 (1)*
Radium 226	pCi/L	0.3	-0.2 (0.5)*	0.2 (0.6)*	-0.4 (0.5)*	-0.4 (0.6)*	-0.4 (0.5)*	-0.06 (0.4)*	-0.1 (0.5)*
Thorium 230	pCi/L	0.9	0.1 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0.1	0.2 (0.2)*	0.7	-0.2 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	1490	1180	1070	1830	1420	1880	1500	1890
Data Quality									
A/C Balance (± 5)	%	1.45	4.26	3	2.39	-0.04	2.92	0.17	-1.01
Anions	meq/L	10.8	10.6	11.2	10.6	11.9	11.4	11.7	11.5
Cations	meq/L	11.1	11.5	11.9	11.1	11.9	12	11.7	11.3
Solids, Total Dissolved Calculated	mg/L	715	715	745	696	771	751	776	758
TDS Balance (0.80 - 1.20)	dec. %	0.94	1.05	0.95	0.97	0.93	0.98	0.86	0.96



Powertech (USA) Inc. Hydro ID		615				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		3:00 PM	11:27 AM	11:10 AM	3:45 PM								
Lab ID		R08110211-013	R08120255-013	R09010301-004	R09020293-009								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3689	3689	3689	3690	12	3688.9	3690.5	3689.5				
Field Temperature	°C	15.4	12.7	14.4	15	12	12.7	15.4	14.81				
Field pH	s.u.	7.12	7.23	7.18	7.29	12	6.39	7.29	7.103				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	6	0.09	0.73	0.265				
Field Conductivity	umhos/cm	1110	1180	1120	1090	12	925	1180	1069				
Field Turbidity	NTU	NM	NM	NM	NM	7	-0.2	4.6	2.34				
Physical Properties													
Conductivity @ 25 C	umhos/cm	973	965	1050	971	12	965	1250	1055				
Oxidation-Reduction Potential	mV	280	270	270	130	12	130	330	229				
pH	s.u.	8.04	7.34	7.19	7.23	12	7.16	8.04	7.484				
Sodium Adsorption Ratio (SAR)	unitless	3.5	3.5	3.5	3.3	12	3.3	3.8	3.49				
Solids, Total Dissolved TDS @ 180 C	mg/L	700	700	720	730	12	670	750	708				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	138	140	138	138	12	136	142	138				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	168	171	168	168	12	166	173	168.2				
Calcium	mg/L	77	72.2	70.3	69	12	69	79.2	73.29				
Chloride	mg/L	5	5	5	5	12	4	6	5				
Fluoride	mg/L	0.5	0.5	0.6	0.6	12	0.4	0.6	0.53				
Magnesium	mg/L	22.6	21.4	21	21	12	20.7	23.2	21.86				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	8.9	8.7	9.8	8.4	12	8.4	11.7	9.11				
Sodium	mg/L	135	131	131	124	12	124	142	132.5				
Sulfate	mg/L	391	388	389	398	12	369	430	396				
Silica	mg/L	9.1	8.9	7.8	7.8	12	2	9.1	6.78				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.012	0.011	0.014	0.012	12	0.011	0.02	0.016				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	0.03	0.13	0.06	12	< 0.03	0.95	0.38				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.06	0.07	0.07	0.07	12	0.06	0.08	0.069				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.003	0.002	0.003	0.003	12	0.0023	0.0027	0.0025				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	< 3E-04	< 3E-04	12	< 0.0003	0.0032	0.0004				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0016				
Arsenic	mg/L	0.022	0.023	0.024	0.022	12	0.021	0.024	0.0231				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				

Powertech (USA) Inc. Hydro ID		615				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		3:00 PM	11:27 AM	11:10 AM	3:45 PM								
Lab ID		R08110211 -013	R08120255 -013	R09010301 -004	R09020293 -009								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Boron	mg/L	< 0.1	0.1	< 0.4	< 0.1	12	< 0.1	< 0.4	0.08				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	1.19	1.37	1.3	1.31	12	1.19	1.52	1.363				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.013	0.0017				
Manganese	mg/L	0.06	0.06	0.07	0.07	12	0.06	0.08	0.069				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.003	0.0008				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	1.3	1.3	1.5	1.3	12	1.3	1.5	1.38				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.002	0.002	0.003	0.002	12	0.0022	0.0026	0.0024				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	0.02	0.007				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	13.9	21.7	21.1	14.8	12	13.9	38.3	19.45				
Gross Beta	pCi/L	4.2	12.8	10.4	10.5	12	3.7	12.8	9.7				
Lead 210	pCi/L	-0.2 (4.4)*	2.2 (4)*	1.2 (4.2)*	0.9 (2.7)*	12	-2.5	4.6	0.69				
Polonium 210	pCi/L	0.1 (1)*	0 (1)*	-0.03 (0.54)*	0.1 (0.46)*	12	-0.1	0.9	0.26				
Radium 226	pCi/L	1.9	2.1	1.8	2.3	12	1.2	7.2	2.4				
Thorium 230	pCi/L	0.1 (0.2)*	0.3 (0.2)*	0 (0.2)*	-0 (0.1)*	12	< 0.2	0.3	0.07				
Gross Gamma	pCi/L	960	960	32	1000	12	0	1100	350				
Radionuclides - Suspended													
Lead 210	pCi/L	0.5 (9)*	1.1 (10.4)*	5.8 (8.5)*	0.5 (5.7)*	12	-6	27.1	2.13				
Polonium 210	pCi/L	0.1 (1)*	0.1 (1)*	0.14 (0.57)*	0.2 (0.46)*	12	-0.04	0.4	0.1				
Radium 226	pCi/L	0 (0.4)*	-0.3 (0.5)*	-0.2 (0.5)*	0.1 (0.3)*	12	-0.4	0.3	-0.12				
Thorium 230	pCi/L	-0.2 (0.2)*	-0.1 (0.2)*	0.1 (0.2)*	0.1 (0.3)*	12	-0.2	0.9	0.16				
Radionuclides - Total													
Radon 222	pCi/L	1800	1710	1630	1590	12	1070	1890	1583				
Data Quality													
A/C Balance (± 5)	%	3.16	1.01	0.66	-2.02	12	-2.02	4.26	1.329				
Anions	meq/L	11.1	11	11	11.2	12	10.6	11.9	11.17				
Cations	meq/L	11.8	11.3	11.2	10.8	12	10.8	12	11.5				
Solids, Total Dissolved Calculated	mg/L	747	735	730	729	12	696	776	739				
TDS Balance (0.80 - 1.20)	dec. %	0.94	0.95	0.98	1	12	0.86	1.05	0.959				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		619				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/27/2007	11/12/2007	3/24/2008	6/17/2008					
Time Collected	5:45 PM	2:25 PM	3:40 PM	6:10 PM					
Lab ID	R07090385-001	R07110146-008	R08030253-002	R08060335-001					
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Water Level Elevation	ft AMSL	3679	3679	NM	NM	2	3679	3679	3679
Field Temperature	°C	NM	10.94	11.45	11.8	3	10.94	11.8	11.4
Field pH	s.u.	6.96	7.54	7	7.09	4	6.96	7.54	7.148
Field Dissolved Oxygen	mg/L	1.17	1.77	0.48	NM	3	0.48	1.77	1.14
Field Conductivity	umhos/cm	1351	1761	2120	2390	4	1351	2390	1906
Field Turbidity	NTU	NM	28.9	2.1	2.2	3	2.1	28.9	11.07
Physical Properties									
Conductivity @ 25 C	umhos/cm	2270	1860	2180	2390	4	1860	2390	2175
Oxidation-Reduction Potential	mV	NM	25	-80.2	150	3	-80.2	150	32
pH	s.u.	7.03	7.03	7.25	7.82	4	7.03	7.82	7.283
Sodium Adsorption Ratio (SAR)	unitless	NM	1.2	1.1	1	3	1	1.2	1.1
Solids, Total Dissolved TDS @ 180 C	mg/L	2100	1900	2100	2000	4	1900	2100	2030
Major Ions									
Alkalinity, Total as CaCO3	mg/L	140	98	116	116	4	98	140	118
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	171	119	141	141	4	119	171	143
Calcium	mg/L	304	263	343	375	4	263	375	321.3
Chloride	mg/L	9	10	12	9	4	9	12	10
Fluoride	mg/L	0.2	0.2	0.3	0.3	4	0.2	0.3	0.25
Magnesium	mg/L	106	96.4	125	129	4	96.4	129	114.1
Nitrogen, Ammonia as N	mg/L	0.2	0.3	0.2	0.2	4	0.2	0.3	0.23
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Potassium	mg/L	16.9	16.2	16.5	17.6	4	16.2	17.6	16.8
Sodium	mg/L	80	86.1	90.3	90	4	80	90.3	86.6
Sulfate	mg/L	1440	1180	1310	1230	4	1180	1440	1290
Silica	mg/L	7.5	6	8	4	4	4	8	6.4
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	0.001	4	< 0.001	< 0.001	6E-04
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Copper	mg/L	0.08	< 0.01	< 0.01	0.01	4	< 0.01	0.08	0.025
Iron	mg/L	1.95	4.39	3.22	3.03	4	1.95	4.39	3.148
Lead	mg/L	0.008	< 0.001	< 0.001	0.002	4	< 0.001	0.008	0.003
Manganese	mg/L	1.51	1.15	1.62	1.74	4	1.15	1.74	1.505
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	< 0.001	< 0.005	< 0.001	4	< 0.001	< 0.005	0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.002	0.002	0.002	0.002	4	0.002	0.002	0.002
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	0.11	0.07	0.03	0.03	4	0.03	0.11	0.06
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04
Metals - Total									
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002
Arsenic	mg/L	NM	NM	0.002	0.002	2	0.002	0.002	0.002
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		619				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/27/2007	11/12/2007	3/24/2008	6/17/2008								
Time Collected	5:45 PM	2:25 PM	3:40 PM	6:10 PM								
Lab ID	R07090385-001	R07110146-008	R08030253-002	R08060335-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05			
Cadmium	mg/L	NM	NM	< 0.001	< 0.005	2	< 0.001	< 0.005	0.002			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	0.01	2	< 0.01	< 0.01	0.008			
Iron	mg/L	NM	NM	11.9	13	2	11.9	13	12.5			
Lead	mg/L	NM	NM	0.005	0.002	2	0.002	0.005	0.004			
Manganese	mg/L	NM	NM	1.82	1.65	2	1.65	1.82	1.735			
Mercury	mg/L	< 2E-04	< 0.001	< 1E-04	< 2E-04	4	< 1E-04	< 0.001	2E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	5.2	5.4	2	5.2	5.4	5.3			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.002	0.002	2	0.002	0.002	0.002			
Zinc	mg/L	NM	NM	0.18	0.08	2	0.08	0.18	0.13			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	367	341	438	398	4	341	438	386			
Gross Beta	pCi/L	117	170	175	144	4	117	175	151.5			
Gross Gamma	pCi/L	120	4200	25	270	4	25	4200	1150			
Lead 210	pCi/L	< 1	< 1	19	-1.1 (8.4)*	4	< 1	19	4.7			
Polonium 210	pCi/L	< 1	< 1	1.9	-0.1 (1)*	4	< 1	1.9	0.7			
Radium 226	pCi/L	120	100	99.7	110	4	99.7	120	107			
Thorium 230	pCi/L	0.5	< 0.2	0	0 (0.2)*	4	< 0.2	0.5	0.15			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	11	2 (18.2)*	4	< 1	11	3.5			
Polonium 210	pCi/L	< 1	< 1	0.1	0.4 (1)*	4	< 1	< 1	0.4			
Radium 226	pCi/L	< 0.2	3.5	11.4	8.8	4	< 0.2	11.4	5.95			
Thorium 230	pCi/L	< 0.2	0.2	0.2	0 (0.2)*	4	< 0.2	< 0.2	0.13			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	120	NM	NM	NM	1	120	120	120			
Radon 222	pCi/L	NM	2990	5580	5770	3	2990	5770	4780			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-1.34	-2.56	3.41	9.08	4	-2.56	9.08	2.148			
Anions	meq/L	28.7	26.8	29.9	28.3	4	26.8	29.9	28.43			
Cations	meq/L	27.9	25.5	32	34	4	25.5	34	29.9			
Solids, Total Dissolved Calculated	mg/L	1830	1720	1980	1940	4	1720	1980	1868			
TDS Balance (0.80 - 1.20)	dec. %	1.14	1.09	1.05	1.02	4	1.02	1.14	1.075			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		622							
Month Sampled		Apr-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		4/1/2008	4/21/2008	5/28/2008	6/25/2008	7/14/2008	8/20/2008	9/22/2008	10/20/2008
Time Collected		2:56 PM	3:28 PM	6:26 PM	12:05 PM	12:35 PM	12:59 PM	4:00 PM	3:42 PM
Lab ID		R08040028-003	R08040250-003	R08050406-004	R08060452-001	R08070244-001	R08080332-003	R08090314-004	R08100295-006
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3710	3711	3710	3710	3710	3710	3710	3710
Field Temperature	°C	12.55	14.32	14.32	14.37	14.75	14.56	14.37	14.2
Field pH	s.u.	8.49	7.76	7.62	7.6	7.32	7.09	7.53	7.53
Field Dissolved Oxygen	mg/L	NM	0.14	0.12	0.1	0.11	0.21	NM	NM
Field Conductivity	umhos/cm	1042	1348	1311	1388	1371	1252	1250	1400
Field Turbidity	NTU	6.2	70.9	30.8	1.3	5.1	4.7	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1260	1330	1220	1410	1290	1460	1270	1390
Oxidation-Reduction Potential	mV	200	340	200	240	110	210	200	200
pH	s.u.	8.15	7.85	7.52	7.95	7.68	7.84	7.78	7.95
Sodium Adsorption Ratio (SAR)	unitless	11	4.1	4.1	4	4.4	4.1	4.1	4.2
Solids, Total Dissolved TDS @ 180 C	mg/L	800	940	890	900	950	920	910	920
Major Ions									
Alkalinity, Total as CaCO3	mg/L	164	180	178	178	182	184	182	178
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	200	219	217	217	222	224	222	217
Calcium	mg/L	11.2	87.6	97.5	89.6	85.9	95.2	91.9	87.9
Chloride	mg/L	12	10	10	10	10	10	10	10
Fluoride	mg/L	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4
Magnesium	mg/L	7.1	32	32.7	31.2	29.1	32.3	31.8	29.9
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	0.08	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	11.3	10.3	10.6	10.2	14.1	10.6	10.3	10.2
Sodium	mg/L	179	175	182	174	185	183	180	179
Sulfate	mg/L	470	487	493	481	478	504	528	510
Silica	mg/L	1.2	7.5	4	3.9	1.9	3.9	8.9	8.4
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03	< 0.03
Lead	mg/L	< 0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.02	0.18	0.2	0.19	0.19	0.19	0.19	0.18
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	< 3E-04	0.005	0.006	0.005	0.005	0.005	0.006	0.005
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	8E-04	5E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.001	0.006	0.006	0.004	0.027	0.002	0.002	0.006
Barium	mg/L	< 0.1	< 0.1	0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		622							
Month Sampled		Apr-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		4/1/2008	4/21/2008	5/28/2008	6/25/2008	7/14/2008	8/20/2008	9/22/2008	10/20/2008
Time Collected		2:56 PM	3:28 PM	6:26 PM	12:05 PM	12:35 PM	12:59 PM	4:00 PM	3:42 PM
Lab ID		R08040028 -003	R08040250 -003	R08050406 -004	R08060452 -001	R08070244 -001	R08080332 -003	R08090314 -004	R08100295 -006
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.96	7.34	10.7	5.17	0.91	1	1.18	1.21
Lead	mg/L	0.004	0.026	0.023	0.03	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.02	0.23	0.25	0.22	0.19	0.19	0.19	0.18
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	0.002	< 0.002	< 0.001	< 0.005	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	< 0.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 3E-04	0.007	0.007	0.006	0.005	0.005	0.005	0.006
Zinc	mg/L	0.03	0.22	0.25	0.13	< 0.01	0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	15	22.6	32.6	36.4	31.2	27.7	1470	29.3
Gross Beta	pCi/L	9.2	16.2	11.9	22.5	10	12.4	678	20
Lead 210	pCi/L	-3.5 (1)*	-4.1 (1)*	1.2 (8.2)*	-2 (11.4)*	2.6 (9.2)*	0.1 (10.7)*	-1 (9)*	3.2 (12.3)*
Polonium 210	pCi/L	0.8 (1)*	1.1	-0.3 (1)*	0.2 (1)*	0.4 (1)*	0.3 (1)*	-0.1 (1)*	0 (1)*
Radium 226	pCi/L	2.3	2.7	3.2	4.1	2.9	4.4	3	2.7
Thorium 230	pCi/L	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	< 0.2	0.1 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	150	0 (20)*	0 (20)*	0 (20)*	0	130
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	0 (1)*	-0.9 (17.7)*	3.5 (7.4)*	-1 (21.4)*	-4 (17.8)*	0.2 (7.8)*	-1 (6.8)*
Polonium 210	pCi/L	0 (1)*	2.8	2.5	1	2.8	0.2 (1)*	0.39 (1)*	0.3 (1)*
Radium 226	pCi/L	0.7	0.9	1	-0.2 (0.5)*	-0.4 (0.6)*	-0.2 (0.5)*	-0.2 (0.4)*	-0.2 (0.5)*
Thorium 230	pCi/L	0.2	0.1 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	-0.1 (0.2)*	-0.1 (0.2)*	0 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	501	1090	804	1950	824	1370	992	1360
Data Quality									
A/C Balance (± 5)	%	-18.5	3.01	5.53	3.53	4.15	3.93	1.2	1.37
Anions	meq/L	13.4	14	14.1	13.9	13.9	14.5	15	14.5
Cations	meq/L	9.23	14.9	15.8	14.9	15.1	15.7	15.3	14.9
Solids, Total Dissolved Calculated	mg/L	793	931	944	914	918	957	986	957
TDS Balance (0.80 - 1.20)	dec. %	1.01	1.01	0.95	0.99	1.03	0.96	0.92	0.96



Powertech (USA) Inc. Hydro ID		622				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		2:30 PM	2:20 PM	10:51 AM	3:31 PM								
Lab ID		R08110211 -014	R08120255 -008	R09010301 -002	R09020293 -008								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3710	3710	3710	3710	12	3709.8	3710.7	3710.2				
Field Temperature	°C	14.9	12.2	14.1	14.7	12	12.2	14.9	14.11				
Field pH	s.u.	7.52	8.04	7.56	7.66	12	7.09	8.49	7.643				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	5	0.1	0.21	0.136				
Field Conductivity	umhos/cm	1390	1400	1390	1370	12	1042	1400	1330				
Field Turbidity	NTU	NM	NM	NM	NM	6	1.3	70.9	19.83				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1180	1220	1310	1230	12	1180	1460	1298				
Oxidation-Reduction Potential	mV	280	250	270	130	12	110	340	219				
pH	s.u.	8.01	7.46	7.46	7.58	12	7.46	8.15	7.769				
Sodium Adsorption Ratio (SAR)	unitless	4.1	4.4	4.1	3.9	12	3.9	11	4.7				
Solids, Total Dissolved TDS @ 180 C	mg/L	890	880	900	900	12	800	950	900				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	180	146	176	178	12	146	184	175.5				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	219	178	215	217	12	178	224	213.9				
Calcium	mg/L	92.4	73	84.7	85	12	11.2	97.5	81.83				
Chloride	mg/L	11	10	10	10	12	10	12	10.3				
Fluoride	mg/L	0.4	0.3	0.6	0.5	12	0.3	0.6	0.43				
Magnesium	mg/L	31.7	31.4	29.7	30.5	12	7.1	32.7	29.12				
Nitrogen, Ammonia as N	mg/L	< 0.1	0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	10.5	10.4	12.2	10.8	12	10.2	14.1	10.96				
Sodium	mg/L	180	178	173	167	12	167	185	177.9				
Sulfate	mg/L	480	476	499	495	12	470	528	491.8				
Silica	mg/L	8.5	5.8	7.4	7.3	12	1.2	8.9	5.73				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	0.09	< 0.03	< 0.03	12	< 0.03	0.09	0.024				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Manganese	mg/L	0.17	0.28	0.17	0.18	12	0.02	0.28	0.178				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.006	< 3E-04	0.003	0.005	12	< 0.0003	0.0056	0.0043				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	3E-04	< 3E-04	12	< 0.0003	< 0.0009	0.0003				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	0.002	0.001	0.003	0.004	12	0.001	0.027	0.0053				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.07				

Powertech (USA) Inc. Hydro ID		622				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		2:30 PM	2:20 PM	10:51 AM	3:31 PM								
Lab ID		R08110211 -014	R08120255 -008	R09010301 -002	R09020293 -008								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.002	0.0005				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.06				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.95	11	4.06	1.4	12	0.91	11	3.8				
Lead	mg/L	< 0.001	0.005	0.008	0.002	12	< 0.001	0.03	0.008				
Manganese	mg/L	0.18	0.27	0.19	0.2	12	0.02	0.27	0.193				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.002	< 0.001	12	< 0.001	< 0.005	0.0009				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	1.5	1.1	1.6	1.6	12	< 0.1	1.6	1.42				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.005	< 3E-04	0.006	0.005	12	< 0.0003	0.0068	0.0047				
Zinc	mg/L	< 0.01	< 0.01	0.08	0.01	12	< 0.01	0.25	0.063				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	32.6	6.8	36.4	44.3	12	6.8	1470	149				
Gross Beta	pCi/L	17.6	9.6	16	19.7	12	9.2	678	70.3				
Lead 210	pCi/L	-2 (8.7)*	2.5 (4)*	0.3 (4.2)*	0.7 (2.7)*	12	-4.1	3.2	-0.17				
Polonium 210	pCi/L	0.1 (1)*	0 (1)*	0.06 (0.69)*	0.16 (0.46)*	12	-0.3	1.1	0.23				
Radium 226	pCi/L	2.9	1.3	2.9	7.9	12	1.3	7.9	3.36				
Thorium 230	pCi/L	0.1 (0.2)*	0.1 (0.2)*	0 (0.2)*	-0.01 (0.2)*	12	< 0.2	< 0.2	0.04				
Gross Gamma	pCi/L	910	0 ()*	160	0 ()*	12	0	910	113				
Radionuclides - Suspended													
Lead 210	pCi/L	0 (9)*	3.1 (10.4)*	8.1 (8.5)*	0.1 (5.7)*	12	-4	8.1	0.68				
Polonium 210	pCi/L	0.24 ()*	0 (1)*	0.77	0.3 (0.47)*	12	0	2.8	0.94				
Radium 226	pCi/L	-0.1 (0.4)*	0.8	0.2 (0.5)*	0.5	12	-0.4	1	0.2				
Thorium 230	pCi/L	0.1 (0.2)*	-0.2 (0.2)*	0.1 (0.2)*	-0.09 (0.3)*	12	-0.2	0.2	0.01				
Radionuclides - Total													
Radon 222	pCi/L	1280	50.2 (100)*	1180	1360	12	50.2	1950	1063				
Data Quality													
A/C Balance (± 5)	%	4.85	4.09	1.07	0.62	12	-18.5	5.53	1.238				
Anions	meq/L	13.9	13.1	14.2	14.2	12	13.1	15	14.1				
Cations	meq/L	15.4	14.3	14.5	14.3	12	9.23	15.8	14.53				
Solids, Total Dissolved Calculated	mg/L	938	883	934	925	12	793	986	923.3				
TDS Balance (0.80 - 1.20)	dec. %	0.95	0.99	0.97	0.97	12	0.92	1.03	0.976				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		628				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/28/2007	11/14/2007	2/20/2008	5/29/2008								
Time Collected		9:23 AM	10:59 AM	6:30 PM	3:02 PM								
Lab ID		R07100002-001	R07110184-001	R08020220-005	R08050419-004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3695	3694	3696	3695	4	3694	3696	3695				
Field Temperature	°C	NM	13.32	15.56	15.78	3	13.32	15.78	14.89				
Field pH	s.u.	8.65	8.16	7.94	8.24	4	7.94	8.65	8.248				
Field Dissolved Oxygen	mg/L	NM	NM	NM	0.07	1	0.07	0.07	0.07				
Field Conductivity	umhos/cm	1713	1302	1405	1502	4	1302	1713	1481				
Field Turbidity	NTU	NM	3.7	NM	-0.1	2	-0.1	3.7	1.8				
Physical Properties													
Conductivity @ 25 C	umhos/cm	2490	1800	1510	1640	4	1510	2490	1860				
Oxidation-Reduction Potential	mV	NM	96	110	180	3	96	180	129				
pH	s.u.	8.66	7.77	8.32	8.21	4	7.77	8.66	8.24				
Sodium Adsorption Ratio (SAR)	unitless	NM	7.6	9.2	10	3	7.6	10	9				
Solids, Total Dissolved TDS @ 180 C	mg/L	1800	1300	920	980	4	920	1800	1250				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	134	160	162	160	4	134	162	154				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	154	195	193	195	4	154	195	184.3				
Calcium	mg/L	24	43.2	50	40.1	4	24	50	39				
Chloride	mg/L	82	35	29	42	4	29	82	47				
Fluoride	mg/L	0.5	0.4	0.4	0.5	4	0.4	0.5	0.45				
Magnesium	mg/L	11.4	16.9	20.6	17.5	4	11.4	20.6	16.6				
Nitrogen, Ammonia as N	mg/L	0.6	0.2	0.2	0.2	4	0.2	0.6	0.3				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	8.8	8.5	9.3	8.2	4	8.2	9.3	8.7				
Sodium	mg/L	435	233	306	307	4	233	435	320.3				
Sulfate	mg/L	1030	635	651	515	4	515	1030	708				
Silica	mg/L	4.5	7.2	5	4	4	4	7.2	5.18				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.001	< 0.001	0.001	0.001	4	< 0.001	< 0.001	9E-04				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Boron	mg/L	0.4	< 0.1	0.2	0.2	4	< 0.1	0.4	0.21				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Iron	mg/L	0.11	< 0.03	< 0.03	< 0.03	4	< 0.03	0.11	0.039				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Manganese	mg/L	0.06	0.15	0.09	0.08	4	0.06	0.15	0.095				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Selenium	mg/L	0.002	< 0.001	< 0.001	< 0.001	4	< 0.001	0.002	9E-04				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Uranium	mg/L	0.002	0.003	0.003	0.003	4	0.002	0.003	0.003				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Zinc	mg/L	0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.006				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04				
Metals - Total													
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002				
Arsenic	mg/L	NM	NM	0.001	0.004	2	0.001	0.004	0.003				
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		628				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/28/2007	11/14/2007	2/20/2008	5/29/2008								
Time Collected		9:23 AM	10:59 AM	6:30 PM	3:02 PM								
Lab ID		R07100002 -001	R07110184 -001	R08020220 -005	R08050419 -004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Boron	mg/L	NM	NM	< 0.1	0.1	2	< 0.1	< 0.1	0.08				
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	0.7	0.66	2	0.66	0.7	0.68				
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Manganese	mg/L	NM	NM	0.09	0.08	2	0.08	0.09	0.085				
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	3E-04				
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003				
Strontium	mg/L	NM	NM	0.9	0.9	2	0.9	0.9	0.9				
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04				
Uranium	mg/L	NM	NM	0.003	0.003	2	0.003	0.003	0.003				
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	29.9	83.9	64.5	39	4	29.9	83.9	54.33				
Gross Beta	pCi/L	14	47.1	19	11.4	4	11.4	47.1	22.88				
Gross Gamma	pCi/L	< 20	1100	440	260	4	< 20	1100	450				
Lead 210	pCi/L	< 1	< 1	14	0.1 (5.9)*	4	< 1	14	3.8				
Polonium 210	pCi/L	< 1	2.7	1.3	-0.5 (1)*	4	< 1	2.7	1				
Radium 226	pCi/L	7.4	20.7	9	6.1	4	6.1	20.7	10.8				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08				
Radionuclides - Suspended													
Lead 210	pCi/L	< 1	< 1	1.2	0.5 (17.7)*	4	< 1	1.2	0.68				
Polonium 210	pCi/L	6.4	< 1	< 1	0.1 (1)*	4	< 1	6.4	1.88				
Radium 226	pCi/L	< 0.2	NM	1.7	-0.3 (0.5)*	3	< 0.2	1.7	0.5				
Thorium 230	pCi/L	< 0.2	0.3	< 0.2	0.1 (0.2)*	4	< 0.2	0.3	0.15				
Radionuclides - Total													
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Polonium 210	pCi/L	6.4	NM	NM	NM	1	6.4	6.4	6.4				
Radium 226	pCi/L	6.8	NM	NM	NM	1	6.8	6.8	6.8				
Radon 222	pCi/L	NM	2740	4360	5040	3	2740	5040	4047				
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality													
A/C Balance (± 5)	%	-4.9	-1.74	0.362	5.86	4	-4.9	5.86	-0.11				
Anions	meq/L	23.5	14.4	17.6	15.2	4	14.4	23.5	17.68				
Cations	meq/L	21.3	13.9	17.8	17	4	13.9	21.3	17.5				
Solids, Total Dissolved Calculated	mg/L	1530	923	1180	1040	4	923	1530	1168				
TDS Balance (0.80 - 1.20)	dec. %	1.15	1.44	0.78	0.95	4	0.78	1.44	1.08				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		631				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/26/2007	11/14/2007	2/20/2008	5/19/2008								
Time Collected	4:40 PM	3:20 PM	1:55 PM	11:06 AM								
Lab ID	R07090384-004	R07110184-004	R08020220-003	R08050251-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters												
Water Level Elevation	ft AMSL	3715	3716	3715	3713	4	3713	3716	3715			
Field Temperature	°C	NM	11.54	11.29	11.82	3	11.29	11.82	11.55			
Field pH	s.u.	7.7	NM	7.21	7.23	3	7.21	7.7	7.38			
Field Dissolved Oxygen	mg/L	7.09	1.67	0.05	0.12	4	0.05	7.09	2.233			
Field Conductivity	umhos/cm	1471	2279	2234	2322	4	1471	2322	2077			
Field Turbidity	NTU	NM	0.6	0.1	0	3	0	0.6	0.23			
Physical Properties												
Conductivity @ 25 C	umhos/cm	2180	2170	2420	2530	4	2170	2530	2325			
Oxidation-Reduction Potential	mV	NM	< 0	180	230	3	< 0	230	137			
pH	s.u.	7.76	7.23	7.6	7.54	4	7.23	7.76	7.533			
Sodium Adsorption Ratio (SAR)	unitless	NM	1.2	0.99	1.2	3	0.99	1.2	1.13			
Solids, Total Dissolved TDS @ 180 C	mg/L	1900	2000	2000	2000	4	1900	2000	2000			
Major Ions												
Alkalinity, Total as CaCO3	mg/L	168	160	158	164	4	158	168	162.5			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	205	195	193	200	4	193	205	198.3			
Calcium	mg/L	268	307	324	375	4	268	375	318.5			
Chloride	mg/L	10	10	8	10	4	8	10	10			
Fluoride	mg/L	0.3	0.3	0.2	0.5	4	0.2	0.5	0.33			
Magnesium	mg/L	82.9	89.3	82.6	110	4	82.6	110	91			
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Potassium	mg/L	15.9	15.7	15.7	16.3	4	15.7	16.3	15.9			
Sodium	mg/L	92.4	92.9	77.1	107	4	77.1	107	92.4			
Sulfate	mg/L	1240	1220	1250	1250	4	1220	1250	1240			
Silica	mg/L	7.2	7.8	6.9	3.5	4	3.5	7.8	6.35			
Metals - Dissolved												
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Arsenic	mg/L	0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	6E-04			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Boron	mg/L	0.2	< 0.1	0.1	0.2	4	< 0.1	0.2	0.14			
Cadmium	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003			
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	0.84	0.57	0.39	4	< 0.03	0.84	0.454			
Lead	mg/L	< 0.05	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.05	0.007			
Manganese	mg/L	0.28	0.29	0.3	0.33	4	0.28	0.33	0.3			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Selenium	mg/L	0.002	< 0.001	< 0.001	< 0.005	4	< 0.001	< 0.005	0.001			
Silver	mg/L	< 0.01	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.01	0.003			
Thorium 232	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	4	< 0.001	< 0.005	0.002			
Uranium	mg/L	0.003	0.003	0.003	0.003	4	0.003	0.003	0.003			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005			
Metals - Dissolved - Speciated												
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Metals - Suspended												
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04			
Metals - Total												
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002			
Arsenic	mg/L	NM	NM	< 0.001	0.002	2	< 0.001	0.002	0.001			
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05			



Powertech (USA) Inc. Hydro ID		631				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/26/2007	11/14/2007	2/20/2008	5/19/2008								
Time Collected	4:40 PM	3:20 PM	1:55 PM	11:06 AM								
Lab ID	R07090384-004	R07110184-004	R08020220-003	R08050251-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	0.1	0.2	2	0.1	0.2	0.15			
Cadmium	mg/L	NM	NM	< 0.005	< 0.001	2	< 0.001	< 0.005	0.002			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Iron	mg/L	NM	NM	1.06	0.98	2	0.98	1.06	1.02			
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Manganese	mg/L	NM	NM	0.28	0.32	2	0.28	0.32	0.3			
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	0.002	< 0.001	2	< 0.001	0.002	0.001			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	5.6	6.8	2	5.6	6.8	6.2			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	0.003	NM	0.003	0.003	3	0.003	0.003	0.003			
Zinc	mg/L	NM	NM	< 0.01	0.01	2	< 0.01	< 0.01	0.008			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	51	46.5	162	60.7	4	46.5	162	80.1			
Gross Beta	pCi/L	20.9	29.4	52.1	26.2	4	20.9	52.1	32.15			
Gross Gamma	pCi/L	520	1900	510	130	4	130	1900	770			
Lead 210	pCi/L	< 1	< 1	6.1	0.5 (16)*	4	< 1	6.1	1.9			
Polonium 210	pCi/L	< 1	3.5	< 1	0.2 (1)*	4	< 1	3.5	1.18			
Radium 226	pCi/L	12.9	9.5	19.4	22.1	4	9.5	22.1	15.98			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	7.5	-1.4 (8.8)*	4	< 1	7.5	1.78			
Polonium 210	pCi/L	< 1	< 1	< 1	0.1 (1)*	4	< 1	< 1	0.4			
Radium 226	pCi/L	2.3	NM	< 0.9	-0.3 (0.4)*	3	< 0.9	2.3	0.82			
Thorium 230	pCi/L	< 0.2	< 0.2	0.6	0 (0.2)*	4	< 0.2	0.6	0.2			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	15.2	NM	NM	NM	1	15.2	15.2	15.2			
Radon 222	pCi/L	NM	4220	3920	4430	3	3920	4430	4190			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-4.28	-3.03	-4.87	5.08	4	-4.87	5.08	-1.78			
Anions	meq/L	26.9	28.9	29.5	29.7	4	26.9	29.7	28.75			
Cations	meq/L	24.7	27.2	26.8	32.8	4	24.7	32.8	27.88			
Solids, Total Dissolved Calculated	mg/L	1690	1830	1880	1980	4	1690	1980	1845			
TDS Balance (0.80 - 1.20)	dec. %	1.11	1.09	1.05	1.02	4	1.02	1.11	1.068			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		635				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/26/2007	11/27/2007	2/10/2008	4/29/2008					
Time Collected	6:08 PM	8:25 AM	2:55 PM	7:00 PM					
Lab ID	R07090384-005	R07110303-001	R08020082-001	R08040364-007					
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	NM	0	NM	NM	NM
Field Temperature	°C	NM	10.37	9.41	13.94	3	9.41	13.94	11.24
Field pH	s.u.	7.63	7.92	7.95	7.83	4	7.63	7.95	7.833
Field Dissolved Oxygen	mg/L	0.32	0.76	4.59	2.31	4	0.32	4.59	1.995
Field Conductivity	umhos/cm	1904	2687	2928	2971	4	1904	2971	2623
Field Turbidity	NTU	NM	1.7	0.3	1	3	0.3	1.7	1
Physical Properties									
Conductivity @ 25 C	umhos/cm	2890	2830	2950	2810	4	2810	2950	2870
Oxidation-Reduction Potential	mV	NM	270	129.4	180	3	129.4	270	193
pH	s.u.	7.72	7.64	7.91	8.2	4	7.64	8.2	7.87
Sodium Adsorption Ratio (SAR)	unitless	NM	9.3	9.6	10	3	9.3	10	10
Solids, Total Dissolved TDS @ 180 C	mg/L	2200	2300	2300	2200	4	2200	2300	2250
Major Ions									
Alkalinity, Total as CaCO3	mg/L	124	118	120	118	4	118	124	120
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	151	144	146	144	4	144	151	146.3
Calcium	mg/L	110	120	132	136	4	110	136	124.5
Chloride	mg/L	24	23	26	20	4	20	26	23.3
Fluoride	mg/L	0.3	0.3	0.4	0.4	4	0.3	0.4	0.35
Magnesium	mg/L	44.3	49	52.3	54.1	4	44.3	54.1	49.93
Nitrogen, Ammonia as N	mg/L	0.1	0.4	0.5	0.5	4	0.1	0.5	0.38
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04
Potassium	mg/L	7.8	8.3	8.2	7.3	4	7.3	8.3	7.9
Sodium	mg/L	470	480	515	545	4	470	545	502.5
Sulfate	mg/L	1500	1370	1470	1430	4	1370	1500	1440
Silica	mg/L	8.6	9	10	4.9	4	4.9	10	8
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.4	0.4	0.5	0.4	4	0.4	0.5	0.43
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	0.003	< 0.001	< 0.001	4	< 0.001	0.003	0.001
Manganese	mg/L	0.06	0.07	0.06	0.06	4	0.06	0.07	0.063
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Selenium	mg/L	0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	6E-04
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.002	0.002	0.002	0.002	4	0.002	0.002	0.002
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	0.02	< 0.01	< 0.01	4	< 0.01	0.02	0.009
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	NM	0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	7E-04
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 3E-04	2E-04
Metals - Total									
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002
Arsenic	mg/L	NM	NM	< 0.001	0.001	2	< 0.001	< 0.001	8E-04
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		635				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/26/2007	11/27/2007	2/10/2008	4/29/2008								
Time Collected	6:08 PM	8:25 AM	2:55 PM	7:00 PM								
Lab ID	R07090384-005	R07110303-001	R08020082-001	R08040364-007								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	0.5	0.4	2	0.4	0.5	0.45			
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Iron	mg/L	NM	NM	1.11	1.08	2	1.08	1.11	1.095			
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Manganese	mg/L	NM	NM	0.06	0.05	2	0.05	0.06	0.055			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	0.01	< 0.1	2	< 0.1	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	< 0.001	0.001	2	< 0.001	< 0.001	8E-04			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	4.2	4.6	2	4.2	4.6	4.4			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	0.002	NM	0.002	0.002	3	0.002	0.002	0.002			
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	2.5	4.4	14.8	13.2	4	2.5	14.8	8.73			
Gross Beta	pCi/L	4.3	6.3	10	-8 (9.2)*	4	-8	10	3			
Gross Gamma	pCi/L	960	1000	91	0 (20)*	4	0	1000	500			
Lead 210	pCi/L	< 1	1.7	< 1	0 (1)*	4	< 1	1.7	0.68			
Polonium 210	pCi/L	< 1	1.9	< 1	1.1	4	< 1	1.9	1			
Radium 226	pCi/L	1.6	0.8	1.3	NM	3	0.8	1.6	1.23			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.2	4	< 0.2	< 0.2	0.13			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	5.1	< 1	-9.6 (1)*	4	< 1	5.1	-0.88			
Polonium 210	pCi/L	< 1	< 1	< 1	0 (1)*	4	< 1	< 1	0.4			
Radium 226	pCi/L	0.8	< 0.2	0.6	0.3	4	< 0.2	0.8	0.45			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	2.4	NM	NM	NM	1	2.4	2.4	2.4			
Radon 222	pCi/L	NM	902	806	1070	3	806	1070	926			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-1.14	-0.831	-0.25	3.52	4	-1.14	3.52	0.325			
Anions	meq/L	30.4	31.6	33.7	32.8	4	30.4	33.7	32.13			
Cations	meq/L	29.8	31.1	33.5	35.2	4	29.8	35.2	32.4			
Solids, Total Dissolved Calculated	mg/L	2040	2120	2270	2280	4	2040	2280	2178			
TDS Balance (0.80 - 1.20)	dec. %	1.09	1.08	1.03	0.98	4	0.98	1.09	1.045			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		650				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/28/2007	11/12/2007	3/24/2008	5/30/2008								
Time Collected		7:00 PM	3:30 PM	9:00 AM	4:30 PM								
Lab ID		R07100002-010	R07110146-009	R08030253-001	R08050427-004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3682	3682	3682	3682	4	3682	3682	3682				
Field Temperature	°C	11.9	11.79	11.7	12.64	4	11.7	12.64	12.01				
Field pH	s.u.	7.67	7.3	7.79	7.39	4	7.3	7.79	7.538				
Field Dissolved Oxygen	mg/L	NM	1.35	2.42	NM	2	1.35	2.42	1.885				
Field Conductivity	umhos/cm	1669	1951	1553	1452	4	1452	1951	1656				
Field Turbidity	NTU	NM	40.9	18	29	3	18	40.9	29.3				
Physical Properties													
Conductivity @ 25 C	umhos/cm	2260	1770	1540	1700	4	1540	2260	1818				
Oxidation-Reduction Potential	mV	NM	190	120	200	3	120	200	170				
pH	s.u.	7.04	7.22	7.4	7.3	4	7.04	7.4	7.24				
Sodium Adsorption Ratio (SAR)	unitless	NM	1.9	2.3	2.1	3	1.9	2.3	2.1				
Solids, Total Dissolved TDS @ 180 C	mg/L	2000	1600	1300	1400	4	1300	2000	1600				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	116	108	30	30	4	30	116	71				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	141	132	37	37	4	37	141	86.8				
Calcium	mg/L	219	221	101	125	4	101	221	166.5				
Chloride	mg/L	17	16	19	16	4	16	19	17				
Fluoride	mg/L	< 0.1	< 0.1	0.1	0.1	4	< 0.1	< 0.1	0.08				
Magnesium	mg/L	85.2	100	62.3	70.6	4	62.3	100	80				
Nitrogen, Ammonia as N	mg/L	0.6	0.6	0.4	0.4	4	0.4	0.6	0.5				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	17.6	18.1	14.5	15.6	4	14.5	18.1	16.45				
Sodium	mg/L	110	139	121	119	4	110	139	122.3				
Sulfate	mg/L	1320	1000	801	825	4	801	1320	987				
Silica	mg/L	2.7	1.1	0.9	< 0.5	4	< 0.5	2.7	1.24				
Metals - Dissolved													
Aluminum	mg/L	0.6	< 0.1	< 0.1	< 0.1	4	< 0.1	0.6	0.19				
Arsenic	mg/L	0.002	< 0.001	< 0.001	< 0.001	4	< 0.001	0.002	9E-04				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	0.1	0.1	4	< 0.1	< 0.1	0.08				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Iron	mg/L	13.2	0.68	0.06	0.1	4	0.06	13.2	3.51				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Manganese	mg/L	2.44	1.39	0.43	0.94	4	0.43	2.44	1.3				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Selenium	mg/L	0.002	< 0.001	< 0.005	< 0.001	4	< 0.001	< 0.005	0.001				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003				
Uranium	mg/L	0.002	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	0.002	6E-04				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Zinc	mg/L	0.02	< 0.01	< 0.01	< 0.01	4	< 0.01	0.02	0.009				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04				
Metals - Suspended													
Uranium	mg/L	0.001	< 3E-04	0.003	< 3E-04	4	< 3E-04	0.003	0.001				
Metals - Total													
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002				
Arsenic	mg/L	NM	NM	0.001	0.002	2	0.001	0.002	0.002				
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		650				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/12/2007	3/24/2008	5/30/2008								
Time Collected	7:00 PM	3:30 PM	9:00 AM	4:30 PM								
Lab ID	R07100002-010	R07110146-009	R08030253-001	R08050427-004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	0.1	0.1	2	0.1	0.1	0.1			
Cadmium	mg/L	NM	NM	< 0.001	< 0.005	2	< 0.001	< 0.005	0.002			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	0.08	< 0.01	2	< 0.01	0.08	0.043			
Iron	mg/L	NM	NM	7.59	8.99	2	7.59	8.99	8.29			
Lead	mg/L	NM	NM	0.05	0.002	2	0.002	0.05	0.026			
Manganese	mg/L	NM	NM	0.56	0.66	2	0.56	0.66	0.61			
Mercury	mg/L	< 2E-04	< 0.001	< 1E-04	< 1E-04	4	< 1E-04	< 0.001	2E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	2.1	2.6	2	2.1	2.6	2.35			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	4E-04	< 3E-04	2	< 3E-04	4E-04	3E-04			
Zinc	mg/L	NM	NM	0.07	0.02	2	0.02	0.07	0.045			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	13.1	5.6	2.9	2.1 (4.6)*	4	2.1	13.1	5.93			
Gross Beta	pCi/L	20.9	20.1	12.5	10.8	4	10.8	20.9	16.08			
Gross Gamma	pCi/L	1100	2200	< 20	0 (20)*	4	< 20	2200	830			
Lead 210	pCi/L	< 1	1.4	24	1.5 (8.2)*	4	< 1	24	6.9			
Polonium 210	pCi/L	< 1	< 1	0.4	-0.2 (1)*	4	< 1	< 1	0.3			
Radium 226	pCi/L	2.7	2.4	1.4	1.2	4	1.2	2.7	1.93			
Thorium 230	pCi/L	< 0.2	< 0.2	0.4	0 (0.2)*	4	< 0.2	0.4	0.15			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	12	6.2 (8.7)*	4	< 1	12	4.8			
Polonium 210	pCi/L	< 1	< 1	1.2	0.2 (1)*	4	< 1	1.2	0.6			
Radium 226	pCi/L	0.6	< 0.2	0.7	-0.02 (0.4)*	4	< 0.2	0.7	0.35			
Thorium 230	pCi/L	< 0.2	< 0.2	0.8	0.2 (0.2)*	4	< 0.2	0.8	0.3			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	3.2	NM	NM	NM	1	3.2	3.2	3.2			
Radon 222	pCi/L	NM	134	202	254	3	134	254	196.7			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-3.87	4.96	-5.85	-1.4	4	-5.85	4.96	-1.54			
Anions	meq/L	25.9	23.5	17.8	18.2	4	17.8	25.9	21.35			
Cations	meq/L	23.9	26	15.9	17.7	4	15.9	26	20.9			
Solids, Total Dissolved Calculated	mg/L	1630	1560	1140	1190	4	1140	1630	1380			
TDS Balance (0.80 - 1.20)	dec. %	1.21	1.01	1.11	1.13	4	1.01	1.21	1.115			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		675				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008					
Time Collected	10:49 AM	5:34 PM	12:05 PM	5:47 PM					
Lab ID	R07100002-002	R07110303-007	R08020052-002	R08040364-004					
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Water Level Elevation	ft AMSL	3482	3482	3483	3483	4	3482	3483	3483
Field Temperature	°C	15.18	12.63	NM	8.29	3	8.29	15.18	12.03
Field pH	s.u.	7.03	7.18	7.17	7.08	4	7.03	7.18	7.115
Field Dissolved Oxygen	mg/L	NM	NM	0.91	0.73	2	0.73	0.91	0.82
Field Conductivity	umhos/cm	6779	5534	6151	6164	4	5534	6779	6157
Field Turbidity	NTU	NM	NM	38.8	2.9	2	2.9	38.8	20.85
Physical Properties									
Conductivity @ 25 C	umhos/cm	6090	5830	6340	6560	4	5830	6560	6205
Oxidation-Reduction Potential	mV	NM	220	180	240	3	180	240	213
pH	s.u.	7.25	7.32	7.29	7.53	4	7.25	7.53	7.348
Sodium Adsorption Ratio (SAR)	unitless	NM	6.2	6.5	6.6	3	6.2	6.6	6.43
Solids, Total Dissolved TDS @ 180 C	mg/L	5900	6100	6100	5700	4	5700	6100	5950
Major Ions									
Alkalinity, Total as CaCO3	mg/L	378	352	388	422	4	352	422	385
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	461	429	473	514	4	429	514	469.3
Calcium	mg/L	400	410	439	450	4	400	450	425
Chloride	mg/L	64	60	75	64	4	60	75	65.8
Fluoride	mg/L	0.1	0.4	0.6	0.5	4	0.1	0.6	0.4
Magnesium	mg/L	339	362	376	408	4	339	408	371.3
Nitrogen, Ammonia as N	mg/L	0.3	0.5	0.3	0.2	4	0.2	0.5	0.33
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	0.07	4	< 0.1	< 0.1	0.06
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04
Potassium	mg/L	28	25.2	24.5	21.7	4	21.7	28	24.9
Sodium	mg/L	630	713	769	809	4	630	809	730.3
Sulfate	mg/L	3600	3420	3260	3810	4	3260	3810	3523
Silica	mg/L	16	14.9	14.4	7.3	4	7.3	16	13.2
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	< 0.001	0.001	0.001	4	< 0.001	< 0.001	9E-04
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.4	0.3	0.4	0.3	4	0.3	0.4	0.35
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	0.13	0.05	0.15	1.88	4	0.05	1.88	0.553
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Manganese	mg/L	2.89	3.14	3.39	3.02	4	2.89	3.39	3.11
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Selenium	mg/L	0.003	< 0.001	0.001	< 0.001	4	< 0.001	0.003	0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.037	0.031	0.039	0.049	4	0.031	0.049	0.039
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	0.02	0.02	< 0.01	< 0.01	4	< 0.01	0.02	0.013
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	NM	< 0.001	0.001	< 0.001	3	< 0.001	< 0.001	7E-04
Metals - Suspended									
Uranium	mg/L	0.001	0.003	5E-04	< 3E-04	4	< 3E-04	0.003	0.001
Metals - Total									
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002
Arsenic	mg/L	NM	NM	0.002	0.002	2	0.002	0.002	0.002
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		675				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008								
Time Collected	10:49 AM	5:34 PM	12:05 PM	5:47 PM								
Lab ID	R07100002-002	R07110303-007	R08020052-002	R08040364-004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	< 0.1	0.3	2	< 0.1	0.3	0.18			
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Iron	mg/L	NM	NM	3.48	5.03	2	3.48	5.03	4.255			
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Manganese	mg/L	NM	NM	3.4	3.02	2	3.02	3.4	3.21			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	0.004	0.002	2	0.002	0.004	0.003			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	8.3	8.8	2	8.3	8.8	8.55			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.039	0.05	2	0.039	0.05	0.044			
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	18.8	18.3	29.3	55.2	4	18.3	55.2	30.4			
Gross Beta	pCi/L	18.5	< 2	25.3	8 (27.4)*	4	< 2	25.3	13.2			
Gross Gamma	pCi/L	< 20	1100	< 20	0 (20)*	4	< 20	1100	280			
Lead 210	pCi/L	< 1	6	< 1	0 (1)*	4	< 1	6	1.8			
Polonium 210	pCi/L	< 1	< 1	2.1	0.6 (1)*	4	< 1	2.1	0.93			
Radium 226	pCi/L	< 0.2	0.5	< 0.2	NM	3	< 0.2	0.5	0.23			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08			
Radionuclides - Suspended												
Lead 210	pCi/L	14	< 1	< 1	-19.2 (1)*	4	< 1	14	-1.1			
Polonium 210	pCi/L	< 1	2	< 1	0.3 (1)*	4	< 1	2	0.8			
Radium 226	pCi/L	2.3	1.7	< 0.2	0.7	4	< 0.2	2.3	1.2			
Thorium 230	pCi/L	< 0.2	1.3	< 0.2	0 (0.2)*	4	< 0.2	1.3	0.38			
Radionuclides - Total												
Lead 210	pCi/L	14	NM	NM	NM	1	14	14	14			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	2.3	NM	NM	NM	1	2.3	2.3	2.3			
Radon 222	pCi/L	NM	712	783	960	3	712	960	818			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-4.99	1.35	5.71	1.42	4	-4.99	5.71	0.873			
Anions	meq/L	84.2	80	77.8	89.5	4	77.8	89.5	82.88			
Cations	meq/L	76.2	82.2	87.2	92.1	4	76.2	92.1	84.43			
Solids, Total Dissolved Calculated	mg/L	5280	5200	5180	5830	4	5180	5830	5373			
TDS Balance (0.80 - 1.20)	dec. %	1.11	1.17	1.18	0.97	4	0.97	1.18	1.108			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		676				Summary Statistics			
Month Sampled	3Q07	4Q07	1Q08	2Q08					
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008					
Time Collected	1:46 PM	12:20 PM	4:57 PM	12:27 PM					
Lab ID	R07100002-005	R07110303-002	R08020052-007	R08040364-001					
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Water Level Elevation	ft AMSL	3644	3644	3644	3644	4	3644	3644	3644
Field Temperature	°C	12.17	10.63	9.94	10.22	4	9.94	12.17	10.74
Field pH	s.u.	7.02	6.95	7.04	6.91	4	6.91	7.04	6.98
Field Dissolved Oxygen	mg/L	NM	NM	8.24	7.59	2	7.59	8.24	7.915
Field Conductivity	umhos/cm	3251	2732	2942	2920	4	2732	3251	2961
Field Turbidity	NTU	NM	NM	1000+	21.2	1	21.2	21.2	21.2
Physical Properties									
Conductivity @ 25 C	umhos/cm	2880	2860	3010	3100	4	2860	3100	2960
Oxidation-Reduction Potential	mV	NM	250	230	280	3	230	280	253
pH	s.u.	7.13	7.17	7.2	7.46	4	7.13	7.46	7.24
Sodium Adsorption Ratio (SAR)	unitless	NM	0.92	0.96	0.93	3	0.92	0.96	0.937
Solids, Total Dissolved TDS @ 180 C	mg/L	3000	2900	2500	2600	4	2500	3000	2800
Major Ions									
Alkalinity, Total as CaCO3	mg/L	240	228	208	220	4	208	240	224
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	293	278	254	268	4	254	293	273.3
Calcium	mg/L	465	514	518	561	4	465	561	514.5
Chloride	mg/L	15	16	14	13	4	13	16	14.5
Fluoride	mg/L	0.2	0.2	0.4	0.3	4	0.2	0.4	0.28
Major Ions (continued)									
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	1	1	0.7	0.76	4	0.7	1	0.9
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04
Potassium	mg/L	11.6	12.3	12.7	10.9	4	10.9	12.7	11.88
Sodium	mg/L	80	88.8	92.2	94	4	80	94	88.8
Sulfate	mg/L	1790	1720	1670	1760	4	1670	1790	1735
Silica	mg/L	13.7	14.4	14.3	6.4	4	6.4	14.4	12.2
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Boron	mg/L	0.4	0.4	0.5	0.5	4	0.4	0.5	0.45
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.02	< 0.01	0.02	< 0.01	4	< 0.01	0.02	0.013
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025
Selenium	mg/L	0.017	0.014	0.012	0.009	4	0.009	0.017	0.013
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003
Uranium	mg/L	0.049	0.055	0.059	0.056	4	0.049	0.059	0.055
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	0.03	< 0.01	< 0.01	4	< 0.01	0.03	0.011
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	NM	0.014	0.012	0.009	3	0.009	0.014	0.012
Metals - Suspended									
Uranium	mg/L	0.01	0.001	0.07	< 3E-04	4	< 3E-04	0.07	0.02
Metals - Total									
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002
Arsenic	mg/L	NM	NM	0.021	< 0.001	2	< 0.001	0.021	0.011
Barium	mg/L	NM	NM	0.5	< 0.1	2	< 0.1	0.5	0.28

Powertech (USA) Inc. Hydro ID		676				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008								
Time Collected	1:46 PM	12:20 PM	4:57 PM	12:27 PM								
Lab ID	R07100002-005	R07110303-002	R08020052-007	R08040364-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	0.003	< 0.001	2	< 0.001	0.003	0.002			
Boron	mg/L	NM	NM	0.5	0.4	2	0.4	0.5	0.45			
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Chromium	mg/L	NM	NM	0.05	< 0.05	2	< 0.05	< 0.05	0.038			
Copper	mg/L	NM	NM	0.12	< 0.01	2	< 0.01	0.12	0.063			
Iron	mg/L	NM	NM	66	0.57	2	0.57	66	33.3			
Lead	mg/L	NM	NM	0.06	< 0.001	2	< 0.001	0.06	0.03			
Manganese	mg/L	NM	NM	2.52	0.03	2	0.03	2.52	1.275			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03			
Nickel	mg/L	NM	NM	0.1	< 0.05	2	< 0.05	0.1	0.06			
Selenium	mg/L	NM	NM	0.013	0.012	2	0.012	0.013	0.013			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	9.2	8.6	2	8.6	9.2	8.9			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.069	0.059	2	0.059	0.069	0.064			
Zinc	mg/L	NM	NM	0.28	0.03	2	0.03	0.28	0.155			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	37.1	31.9	95.5	51.6	4	31.9	95.5	54.03			
Gross Beta	pCi/L	11.1	21.6	22.1	9.2 (9.4)*	4	9.2	22.1	16			
Gross Gamma	pCi/L	1100	1000	< 20	0 (20)*	4	< 20	1100	530			
Lead 210	pCi/L	< 1	< 1	4.1	-0.9 (1)*	4	< 1	4.1	1.05			
Polonium 210	pCi/L	< 1	1.2	2.9	1.1	4	< 1	2.9	1.43			
Radium 226	pCi/L	< 0.2	< 0.2	< 0.2	NM	3	< 0.2	< 0.2	0.1			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	3.8	-6.7 (1)*	4	< 1	3.8	-0.48			
Polonium 210	pCi/L	< 1	< 1	2.2	0.1 (1)*	4	< 1	2.2	0.83			
Radium 226	pCi/L	< 0.2	< 0.2	11.4	NM	3	< 0.2	11.4	3.87			
Thorium 230	pCi/L	< 0.2	< 0.2	4.2	0 (0.2)*	4	< 0.2	4.2	1.1			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Radon 222	pCi/L	NM	453	686	755	3	453	755	631.3			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-3.7	-2.19	0.094	1.76	4	-3.7	1.76	-1.01			
Anions	meq/L	38.2	40.9	39.5	41.4	4	38.2	41.4	40			
Cations	meq/L	35.5	39.1	39.5	430	4	35.5	430	136			
Solids, Total Dissolved Calculated	mg/L	2410	2600	2550	2720	4	2410	2720	2570			
TDS Balance (0.80 - 1.20)	dec. %	1.24	1.12	0.98	0.95	4	0.95	1.24	1.073			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		677				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008								
Time Collected	12:26 PM	3:20 PM	1:39 PM	3:14 PM								
Lab ID	R07100002-004	R07110303-004	R08020052-003	R08040364-003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters												
Water Level Elevation	ft AMSL	3561	3561	3562	3563	4	3561	3563	3562			
Field Temperature	°C	13.31	11.33	7.67	8.1	4	7.67	13.31	10.1			
Field pH	s.u.	6.88	6.9	6.91	6.32	4	6.32	6.91	6.753			
Field Dissolved Oxygen	mg/L	NM	NM	0.55	1	2	0.55	1	0.8			
Field Conductivity	umhos/cm	12220	10253	11186	11363	4	10253	12220	11256			
Field Turbidity	NTU	NM	NM	6.1	1.4	2	1.4	6.1	3.75			
Physical Properties												
Conductivity @ 25 C	umhos/cm	11000	10800	11600	12100	4	10800	12100	11380			
Oxidation-Reduction Potential	mV	NM	200	170	210	3	170	210	193			
pH	s.u.	7.09	7.14	7.13	7.28	4	7.09	7.28	7.16			
Sodium Adsorption Ratio (SAR)	unitless	NM	16	16	17	3	16	17	16.3			
Solids, Total Dissolved TDS @ 180 C	mg/L	8900	9700	9600	9100	4	8900	9700	9330			
Major Ions												
Alkalinity, Total as CaCO3	mg/L	532	482	494	480	4	480	532	497			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	649	588	602	585	4	585	649	606			
Calcium	mg/L	420	454	478	516	4	420	516	467			
Chloride	mg/L	1720	1780	1290	1710	4	1290	1780	1625			
Fluoride	mg/L	< 0.1	0.1	< 0.1	0.7	4	< 0.1	0.7	0.23			
Magnesium	mg/L	360	395	414	454	4	360	454	405.8			
Nitrogen, Ammonia as N	mg/L	0.2	< 0.1	< 0.1	< 0.1	4	< 0.1	0.2	0.09			
Nitrogen, Nitrate as N	mg/L	< 0.1	0.2	< 0.1	0.11	4	< 0.1	0.2	0.1			
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04			
Potassium	mg/L	13.2	11	11.3	9.8	4	9.8	13.2	11.33			
Sodium	mg/L	1810	1880	2030	2140	4	1810	2140	1965			
Sulfate	mg/L	4390	4590	4310	4410	4	4310	4590	4425			
Silica	mg/L	10.2	10	9.4	4.2	4	4.2	10.2	8.45			
Metals - Dissolved												
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Arsenic	mg/L	0.002	< 0.001	0.001	0.001	4	< 0.001	0.002	0.001			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Boron	mg/L	0.9	0.8	0.8	0.7	4	0.7	0.9	0.8			
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Manganese	mg/L	2.89	2.55	2.59	1.62	4	1.62	2.89	2.413			
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Selenium	mg/L	0.003	< 0.001	< 0.001	< 0.001	4	< 0.001	0.003	0.001			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Uranium	mg/L	0.022	0.044	0.04	0.045	4	0.022	0.045	0.038			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Zinc	mg/L	0.02	0.02	< 0.01	< 0.01	4	< 0.01	0.02	0.013			
Metals - Dissolved - Speciated												
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Metals - Suspended												
Uranium	mg/L	0.027	0.005	< 3E-04	< 3E-04	4	< 3E-04	0.027	0.008			
Metals - Total												
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002			
Arsenic	mg/L	NM	NM	0.001	0.001	2	0.001	0.001	0.001			
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05			

Powertech (USA) Inc. Hydro ID		677				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008								
Time Collected	12:26 PM	3:20 PM	1:39 PM	3:14 PM								
Lab ID	R07100002-004	R07110303-004	R08020052-003	R08040364-003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	0.7	0.7	2	0.7	0.7	0.7			
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Iron	mg/L	NM	NM	0.12	0.04	2	0.04	0.12	0.08			
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Manganese	mg/L	NM	NM	2.65	1.71	2	1.71	2.65	2.18			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	0.006	< 0.001	2	< 0.001	0.006	0.003			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	10	11.6	2	10	11.6	10.8			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.041	0.047	2	0.041	0.047	0.044			
Zinc	mg/L	NM	NM	< 0.01	0.01	2	< 0.01	< 0.01	0.008			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	41	38.7	129	43.1	4	38.7	129	63			
Gross Beta	pCi/L	< 2	< 2	-2 (26.7)*	-30 (35.3)*	4	< 2	< 2	-7.5			
Gross Gamma	pCi/L	1100	1000	< 20	0 (20)*	4	< 20	1100	530			
Lead 210	pCi/L	< 1	1.1	2.1	0 (1)*	4	< 1	2.1	0.93			
Polonium 210	pCi/L	< 1	< 1	2.2	0.4 (1)*	4	< 1	2.2	0.9			
Radium 226	pCi/L	0.9	< 0.2	< 0.2	NM	3	< 0.2	0.9	0.37			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	< 1	-2.3 (1)*	4	< 1	< 1	-0.2			
Polonium 210	pCi/L	< 1	2.5	< 1	-0.2 (1)*	4	< 1	2.5	0.83			
Radium 226	pCi/L	< 0.2	2.7	< 0.2	0.3	4	< 0.2	2.7	0.8			
Thorium 230	pCi/L	< 0.2	2.2	0.3	0.1 (0.2)*	4	< 0.2	2.2	0.68			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Radon 222	pCi/L	NM	892	808	1250	3	808	1250	983			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-3.56	-3.76	3.88	2.3	4	-3.76	3.88	-0.29			
Anions	meq/L	140	148	136	150	4	136	150	144			
Cations	meq/L	130	138	147	157	4	130	157	143			
Solids, Total Dissolved Calculated	mg/L	8510	9070	8830	9550	4	8510	9550	8990			
TDS Balance (0.80 - 1.20)	dec. %	1.04	1.07	1.09	0.95	4	0.95	1.09	1.038			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		678				Summary Statistics								
Month Sampled		3Q07	4Q07	1Q08	2Q08									
Date Collected		9/28/2007	11/27/2007	2/5/2008	4/29/2008									
Time Collected		4:22 PM	1:40 PM	3:39 PM	1:41 PM									
Lab ID		R07100002-007	R07110303-003	R08020052-005	R08040364-002									
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**					
Field Parameters														
Water Level Elevation	ft AMSL	3581	3582	3582	3583	4	3581	3583	3582					
Field Temperature	°C	13.17	12.02	8.83	9.15	4	8.83	13.17	10.79					
Field pH	s.u.	6.93	7.05	7.12	6.93	4	6.93	7.12	7.008					
Field Dissolved Oxygen	mg/L	NM	NM	1.67	1.4	2	1.4	1.67	1.535					
Field Conductivity	umhos/cm	6497	5472	5872	5906	4	5472	6497	5937					
Field Turbidity	NTU	NM	NM	12.5	3	2	3	12.5	7.75					
Physical Properties														
Conductivity @ 25 C	umhos/cm	5710	5780	6020	6300	4	5710	6300	5950					
Oxidation-Reduction Potential	mV	NM	210	200	260	3	200	260	223					
pH	s.u.	7.23	7.42	7.34	7.55	4	7.23	7.55	7.385					
Sodium Adsorption Ratio (SAR)	unitless	NM	5	5.2	4.9	3	4.9	5.2	5.03					
Solids, Total Dissolved TDS @ 180 C	mg/L	6000	6100	6000	5400	4	5400	6100	5880					
Major Ions														
Alkalinity, Total as CaCO3	mg/L	490	480	468	478	4	468	490	479					
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5					
Bicarbonate as HCO3	mg/L	597	585	570	583	4	570	597	583.8					
Calcium	mg/L	397	422	428	457	4	397	457	426					
Chloride	mg/L	64	61	96	54	4	54	96	68.8					
Fluoride	mg/L	0.6	0.9	< 0.1	1	4	< 0.1	1	0.6					
Magnesium	mg/L	398	434	434	500	4	398	500	440					
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05					
Nitrogen, Nitrate as N	mg/L	0.2	0.2	0.1	0.09	4	0.09	0.2	0.15					
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.05	4	< 0.05	< 0.1	0.04					
Potassium	mg/L	18.9	20.1	20.2	17.4	4	17.4	20.2	19.15					
Sodium	mg/L	564	609	634	643	4	564	643	612.5					
Sulfate	mg/L	3220	3440	3540	3740	4	3220	3740	3485					
Silica	mg/L	14.9	15.4	16.3	7.9	4	7.9	16.3	13.63					
Metals - Dissolved														
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05					
Arsenic	mg/L	0.002	< 0.001	0.001	0.001	4	< 0.001	0.002	0.001					
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05					
Boron	mg/L	1.3	1.4	1.6	1.4	4	1.3	1.6	1.43					
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003					
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025					
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005					
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015					
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04					
Manganese	mg/L	2.85	3.31	2.39	2.66	4	2.39	3.31	2.803					
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04					
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05					
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025					
Selenium	mg/L	0.003	< 0.001	0.002	< 0.001	4	< 0.001	0.003	0.002					
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003					
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003					
Uranium	mg/L	0.035	0.035	0.037	0.036	4	0.035	0.037	0.036					
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.2	4	< 0.1	0.2	0.09					
Zinc	mg/L	0.01	0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.008					
Metals - Dissolved - Speciated														
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04					
Selenium-VI	mg/L	NM	< 0.001	0.002	< 0.001	3	< 0.001	0.002	0.001					
Metals - Suspended														
Uranium	mg/L	0.003	8E-04	< 3E-04	< 3E-04	4	< 3E-04	0.003	0.001					
Metals - Total														
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002					
Arsenic	mg/L	NM	NM	0.002	0.001	2	0.001	0.002	0.002					
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05					



Powertech (USA) Inc. Hydro ID		678				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/27/2007	2/5/2008	4/29/2008								
Time Collected	4:22 PM	1:40 PM	3:39 PM	1:41 PM								
Lab ID	R07100002-007	R07110303-003	R08020052-005	R08040364-002								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Boron	mg/L	NM	NM	1.6	1.4	2	1.4	1.6	1.5			
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Iron	mg/L	NM	NM	0.04	< 0.03	2	< 0.03	0.04	0.028			
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Manganese	mg/L	NM	NM	2.72	2.61	2	2.61	2.72	2.665			
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 0.001	4	< 2E-04	< 0.001	4E-04			
Molybdenum	mg/L	NM	NM	0.01	< 0.1	2	< 0.1	< 0.1	0.03			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	0.005	0.003	2	0.003	0.005	0.004			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	10.2	11	2	10.2	11	10.6			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.038	0.039	2	0.038	0.039	0.038			
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	23.2	18.9	41.5	54.7	4	18.9	54.7	34.58			
Gross Beta	pCi/L	8.1	35.3	16	12.8 (27.6)*	4	8.1	35.3	18.05			
Gross Gamma	pCi/L	1100	1100	< 20	0 (20)*	4	< 20	1100	550			
Lead 210	pCi/L	< 1	4	3.3	-1.2 (1)*	4	< 1	4	1.7			
Polonium 210	pCi/L	< 1	< 1	2.4	1.3	4	< 1	2.4	1.18			
Radium 226	pCi/L	< 0.2	< 0.2	< 0.2	NM	3	< 0.2	< 0.2	0.1			
Thorium 230	pCi/L	< 0.2	< 0.2	0.3	0.2	4	< 0.2	0.3	0.18			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	< 1	-1.5 (1)*	4	< 1	< 1	0			
Polonium 210	pCi/L	< 1	1.3	< 1	0 (1)*	4	< 1	1.3	0.58			
Radium 226	pCi/L	< 0.2	0.7	< 0.2	0.7	4	< 0.2	0.7	0.4			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Radon 222	pCi/L	NM	391	487	687	3	391	687	521.7			
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1			
Data Quality												
A/C Balance (± 5)	%	-0.532	0.551	-0.31	1.9	4	-0.53	1.9	0.4			
Anions	meq/L	78.6	83.1	85.9	89.1	4	78.6	89.1	84.18			
Cations	meq/L	77.8	84	85.3	92.6	4	77.8	92.6	84.93			
Solids, Total Dissolved Calculated	mg/L	4950	5280	5440	5730	4	4950	5730	5350			
TDS Balance (0.80 - 1.20)	dec. %	1.21	1.16	1.1	0.95	4	0.95	1.21	1.105			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		679				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/14/2007	2/3/2008	5/18/2008								
Time Collected	3:04 PM	1:45 PM	4:25 PM	6:00 PM								
Lab ID	R07100002-006	R07110184-003	R08020006-001	R08050229-002								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Field Parameters												
Water Level Elevation	ft AMSL	3686	3685	3685	3685	4	3685	3686	3685			
Field Temperature	°C	11.62	10.64	10.61	11.47	4	10.61	11.62	11.09			
Field pH	s.u.	7.36	7.52	7.36	7.5	4	7.36	7.52	7.435			
Field Dissolved Oxygen	mg/L	NM	10.62	8.83	8.87	3	8.83	10.62	9.44			
Field Conductivity	umhos/cm	2848	2609	2580	2626	4	2580	2848	2666			
Field Turbidity	NTU	NM	1092	NM	505	2	505	1092	798.5			
Physical Properties												
Conductivity @ 25 C	umhos/cm	2520	2470	1970	2880	4	1970	2880	2460			
Oxidation-Reduction Potential	mV	NM	230	200	240	3	200	240	223			
pH	s.u.	7.53	7.34	7.66	7.83	4	7.34	7.83	7.59			
Sodium Adsorption Ratio (SAR)	unitless	NM	0.84	0.87	0.86	3	0.84	0.87	0.857			
Solids, Total Dissolved TDS @ 180 C	mg/L	2500	2600	2500	2500	4	2500	2600	2530			
Major Ions												
Alkalinity, Total as CaCO3	mg/L	140	136	144	158	4	136	158	144.5			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	171	166	176	193	4	166	193	176.5			
Calcium	mg/L	414	447	440	515	4	414	515	454			
Chloride	mg/L	12	12	13	11	4	11	13	12			
Fluoride	mg/L	0.3	0.2	0.4	0.4	4	0.2	0.4	0.33			
Magnesium	mg/L	89	92.5	100	109	4	89	109	97.6			
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nitrogen, Nitrate as N	mg/L	1.2	1.3	1.3	1.1	4	1.1	1.3	1.23			
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Potassium	mg/L	12.5	11.4	11.8	11.1	4	11.1	12.5	11.7			
Sodium	mg/L	73	74.9	77.6	82	4	73	82	76.9			
Sulfate	mg/L	1580	1500	1420	1440	4	1420	1580	1485			
Silica	mg/L	10.4	12.6	12.7	6	4	6	12.7	10.43			
Metals - Dissolved												
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Boron	mg/L	0.4	0.4	0.4	0.4	4	0.4	0.4	0.4			
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Manganese	mg/L	0.14	0.04	0.03	0.04	4	0.03	0.14	0.063			
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	5E-04			
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025			
Selenium	mg/L	0.016	0.012	0.013	0.01	4	0.01	0.016	0.013			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.003			
Uranium	mg/L	0.016	0.014	0.014	0.011	4	0.011	0.016	0.014			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05			
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005			
Metals - Dissolved - Speciated												
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	5E-04			
Selenium-VI	mg/L	NM	0.012	0.012	0.01	3	0.01	0.012	0.011			
Metals - Suspended												
Uranium	mg/L	0.011	8E-04	7E-04	0.001	4	7E-04	0.011	0.003			
Metals - Total												
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.002			
Arsenic	mg/L	NM	NM	0.007	0.011	2	0.007	0.011	0.009			
Barium	mg/L	NM	NM	0.2	0.3	2	0.2	0.3	0.25			

Powertech (USA) Inc. Hydro ID		679				Summary Statistics						
Month Sampled	3Q07	4Q07	1Q08	2Q08								
Date Collected	9/28/2007	11/14/2007	2/3/2008	5/18/2008								
Time Collected	3:04 PM	1:45 PM	4:25 PM	6:00 PM								
Lab ID	R07100002-006	R07110184-003	R08020006-001	R08050229-002								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	NM	NM	< 0.001	0.002	2	< 0.001	0.002	0.001			
Boron	mg/L	NM	NM	< 0.1	0.4	2	< 0.1	0.4	0.23			
Cadmium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Copper	mg/L	NM	NM	0.02	0.03	2	0.02	0.03	0.025			
Iron	mg/L	NM	NM	14.9	26.4	2	14.9	26.4	20.65			
Lead	mg/L	NM	NM	0.015	0.022	2	0.015	0.022	0.019			
Manganese	mg/L	NM	NM	0.35	0.57	2	0.35	0.57	0.46			
Mercury	mg/L	< 2E-04	< 0.001	2E-05	< 1E-04	4	< 1E-04	< 0.001	2E-04			
Molybdenum	mg/L	NM	NM	0.01	0.02	2	0.01	0.02	0.015			
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025			
Selenium	mg/L	NM	NM	0.014	0.013	2	0.013	0.014	0.014			
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.003			
Strontium	mg/L	NM	NM	7.3	7.8	2	7.3	7.8	7.55			
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	5E-04			
Uranium	mg/L	NM	NM	0.015	0.016	2	0.015	0.016	0.016			
Zinc	mg/L	NM	NM	0.06	0.09	2	0.06	0.09	0.075			
Radionuclides - Dissolved												
Gross Alpha	pCi/L	19.9	13.3	18.4	22.4	4	13.3	22.4	18.5			
Gross Beta	pCi/L	10.7	16.3	7.2	10.8	4	7.2	16.3	11.25			
Gross Gamma	pCi/L	1200	1500	86	0 (20)*	4	0	1500	700			
Lead 210	pCi/L	< 1	9.1	< 1	4.5 (17.8)*	4	< 1	9.1	3.65			
Polonium 210	pCi/L	1.1	2.3	< 1	-0.1 (1)*	4	< 1	2.3	0.95			
Radium 226	pCi/L	< 0.2	< 0.2	0.9	3.7	4	< 0.2	3.7	1.2			
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08			
Radionuclides - Suspended												
Lead 210	pCi/L	< 1	< 1	< 1	-9.8 (35.2)*	4	< 1	< 1	-2.1			
Polonium 210	pCi/L	< 1	< 1	< 1	-0.3 (1)*	4	< 1	< 1	0.3			
Radium 226	pCi/L	2.5	NM	9	0.2 (1.8)*	3	0.2	9	3.9			
Thorium 230	pCi/L	1.9	0.3	0.4	1.4	4	0.3	1.9	1			
Radionuclides - Total												
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5			
Radium 226	pCi/L	2.5	NM	NM	NM	1	2.5	2.5	2.5			
Radon 222	pCi/L	NM	819	2170	1250	3	819	2170	1413			
Thorium 230	pCi/L	1.9	NM	NM	NM	1	1.9	1.9	1.9			
Data Quality												
A/C Balance (± 5)	%	-1.81	-1.35	1.37	6.81	4	-1.81	6.81	1.255			
Anions	meq/L	32.7	34.4	33	33.6	4	32.7	34.4	33.43			
Cations	meq/L	31.5	33.5	33.9	38.5	4	31.5	38.5	34.35			
Solids, Total Dissolved Calculated	mg/L	2110	2230	2160	2290	4	2110	2290	2198			
TDS Balance (0.80 - 1.20)	dec. %	1.19	1.15	1.18	1.09	4	1.09	1.19	1.153			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		680						
Month Sampled		Jan-08	Mar-08	Apr-08	May-08	May-08	Jun-08	Jul-08
Date Collected		1/30/2008	3/31/2008	4/21/2008	5/13/2008	5/21/2008	6/10/2008	7/7/2008
Time Collected		1:50 PM	3:15 PM	9:21 PM	4:06 PM	12:50 PM	10:50 AM	1:29 PM
Lab ID		R08010296	R08040002	R08040250	R08050199	R08050321	R08060210	R08070115
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Field Parameters								
Water Level Elevation	ft AMSL	3663	3663	3661	NM	NM	3661	NM
Field Temperature	°C	12.59	12.58	12.42	12.97	13.12	13.02	13.2
Field pH	s.u.	7.1	7.05	7.03	6.94	6.91	6.81	6.31
Field Dissolved Oxygen	mg/L	0.04	0.27	0.27	0.07	0.18	NM	NM
Field Conductivity	umhos/cm	2386	2196	2594	2558	2582	2687	2707
Field Turbidity	NTU	0.3	-0.1	3.8	0.6	0.8	NM	0.5
Physical Properties								
Conductivity @ 25 C	umhos/cm	2630	2560	2510	2580	2860	3060	2490
Oxidation-Reduction Potential	mV	0	180	280	270	160	130	240
pH	s.u.	7.26	7.31	7.56	7.14	7.08	7.32	7.27
Sodium Adsorption Ratio (SAR)	unitless	1.8	1.4	1.4	1.4	1.5	1.5	1.5
Solids, Total Dissolved TDS @ 180 C	mg/L	2400	2200	2300	2300	2300	2500	2300
Major Ions								
Alkalinity, Total as CaCO3	mg/L	258	264	262	262	254	188	248
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	315	322	319	319	310	229	302
Calcium	mg/L	343	353	368	421	406	415	404
Chloride	mg/L	15	15	11	12	12	12	12
Fluoride	mg/L	0.3	0.3	0.3	0.3	0.5	0.3	0.4
Magnesium	mg/L	113	111	123	129	133	134	126
Nitrogen, Ammonia as N	mg/L	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.05	0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	20.7	19.1	19.2	19.5	19.5	19.3	19.4
Sodium	mg/L	148	120	125	126	132	134	131
Sulfate	mg/L	1420	1280	1360	1200	1370	1410	1260
Silica	mg/L	8.9	8.2	8.3	3.8	4.1	4.4	4.3
Metals - Dissolved								
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.026	0.008	0.007	0.004	0.004	0.002	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.1	0.1	0.1	0.2	0.2	0.2	0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.43	0.27	0.25	0.19	0.21	0.06	0.2
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.43	0.4	0.42	0.47	0.48	0.49	0.44
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	0.002
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.172	0.057	0.03	0.021	0.026	0.023	0.019
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	0.02	< 0.01	0.01	< 0.01	0.01	< 0.01
Metals - Dissolved - Speciated								
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002
Metals - Suspended								
Uranium	mg/L	8E-04	< 3E-04	< 3E-04	4E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total								
Antimony	mg/L	NM	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	NM	0.009	0.006	0.005	0.004	0.005	0.004
Barium	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		680						
Month Sampled		Jan-08	Mar-08	Apr-08	May-08	May-08	Jun-08	Jul-08
Date Collected		1/30/2008	3/31/2008	4/21/2008	5/13/2008	5/21/2008	6/10/2008	7/7/2008
Time Collected		1:50 PM	3:15 PM	9:21 PM	4:06 PM	12:50 PM	10:50 AM	1:29 PM
Lab ID		R08010296 -001	R08040002 -002	R08040250 -007	R08050199 -001	R08050321 -002	R08060210 -001	R08070115 -002
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001
Boron	mg/L	NM	0.1	0.1	0.1	0.1	0.1	< 0.1
Cadmium	mg/L	NM	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	0.3	0.29	0.34	0.35	0.28	0.31
Lead	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	NM	0.43	0.44	0.5	0.52	0.48	0.47
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 1E-04	< 1E-04	< 1E-04	< 2E-04
Molybdenum	mg/L	NM	< 0.1	< 0.1	< 0.01	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	NM	7.3	7.3	8.1	8.2	8.1	7.6
Thallium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	NM	0.054	0.029	0.024	0.027	0.024	0.021
Zinc	mg/L	NM	0.02	0.02	0.02	0.01	0.01	< 0.01
Radionuclides - Dissolved								
Gross Alpha	pCi/L	4090	6440	4270	6500	4500	4370	4280
Gross Beta	pCi/L	1330	2320	1390	2250	1530	1320	1090
Lead 210	pCi/L	17	0 (1)*	32	37.7	61.8	15.7	26.5
Polonium 210	pCi/L	1.7	1.5	0.5 (1)*	2	1.5	0.4 (1)*	0.2 (1)*
Radium 226	pCi/L	1180	1150	1230	1430	1240	1410	1280
Thorium 230	pCi/L	< 0.2	0.2	0.3	0.1 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*
Gross Gamma	pCi/L	4700	150	1000	940	21000	5700	2300
Radionuclides - Suspended								
Lead 210	pCi/L	< 1	-2 (1)*	-1 (1)*	20.3 (60.5)*	6.8 (8.8)*	12	1.2 (21.4)*
Polonium 210	pCi/L	< 1	0.5	0.3 (1)*	9.1	1.1	1.3	1.7
Radium 226	pCi/L	12.7	1.9	1.6	13.2	1	4.4	5
Thorium 230	pCi/L	0.3	0.2	0.3	0.4	0 (0.2)*	0.1 (0.2)*	0.1 (0.2)*
Radionuclides - Total								
Radon 222	pCi/L	1E+05	71800	81000	2E+05	4E+05	91700	72000
Data Quality								
A/C Balance (± 5)	%	-2.45	0.26	0.77	10.2	5.04	6.54	7.57
Anions	meq/L	35.2	32.4	33.9	30.6	33.9	33.4	31.6
Cations	meq/L	33.5	32.5	34.5	37.6	37.5	38.1	36.8
Solids, Total Dissolved Calculated	mg/L	2210	2080	2190	2080	2240	2250	2120
TDS Balance (0.80 - 1.20)	dec. %	1.09	1.05	1.04	1.11	1.04	1.1	1.1



Powertech (USA) Inc. Hydro ID		680						
Month Sampled		Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
Date Collected		8/20/2008	9/22/2008	10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009
Time Collected		10:23 AM	11:18 AM	12:05 PM	10:25 AM	1:50 PM	3:25 PM	1:35 PM
Lab ID		R08080332 -002	R08090314 -001	R08100295 -003	R08110211 -005	R08120255 -007	R09010301 -011	R09020293 -007
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Field Parameters								
Water Level Elevation	ft AMSL	3662	3661	3661	3662	3661	3661	3661
Field Temperature	°C	13.11	12.78	13	12.8	11.8	12.3	12.7
Field pH	s.u.	6.81	6.85	6.89	6.93	7.03	7.02	7.18
Field Dissolved Oxygen	mg/L	NM	0.76	NM	NM	NM	NM	NM
Field Conductivity	umhos/cm	2457	2456	2600	2700	3000	2700	2500
Field Turbidity	NTU	4.7	4.7	NM	NM	NM	NM	NM
Physical Properties								
Conductivity @ 25 C	umhos/cm	2920	2440	2660	2470	2510	2480	2530
Oxidation-Reduction Potential	mV	230	110	210	290	240	260	140
pH	s.u.	7.65	7.24	7.6	7.86	7.23	7.12	7.16
Sodium Adsorption Ratio (SAR)	unitless	1.5	1.6	1.6	1.6	1.7	1.7	1.7
Solids, Total Dissolved TDS @ 180 C	mg/L	2300	2300	2100	2300	2300	2200	2300
Major Ions								
Alkalinity, Total as CaCO3	mg/L	160	252	338	250	252	252	250
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	195	307	412	305	307	307	305
Calcium	mg/L	395	402	382	389	396	358	365
Chloride	mg/L	13	12	14	14	13	13	13
Fluoride	mg/L	0.4	0.4	0.2	0.2	0.2	0.5	0.5
Magnesium	mg/L	129	128	123	123	128	117	121
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	18.8	19.4	18.8	19.2	19.3	19.8	19.2
Sodium	mg/L	138	144	141	145	151	145	145
Sulfate	mg/L	1430	1400	1380	1330	1310	1370	1400
Silica	mg/L	3.8	8.7	8.4	8.4	9.4	8.7	8.6
Metals - Dissolved								
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.002	0.002	0.001	0.002	< 0.001	< 0.001	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	0.1	0.1	0.1	0.1	0.2	< 0.1	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.2	0.24	0.07	0.12	0.05	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.46	0.46	0.41	0.43	0.49	0.47	0.44
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.019	0.019	0.018	0.02	0.02	0.021	0.019
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Metals - Dissolved - Speciated								
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended								
Uranium	mg/L	< 3E-04	3E-04	3E-04	< 3E-04	< 9E-04	< 3E-04	< 3E-04
Metals - Total								
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.005	0.002	0.007	0.002	0.001	0.001	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		680						
Month Sampled		Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
Date Collected		8/20/2008	9/22/2008	10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009
Time Collected		10:23 AM	11:18 AM	12:05 PM	10:25 AM	1:50 PM	3:25 PM	1:35 PM
Lab ID		R08080332 -002	R08090314 -001	R08100295 -003	R08110211 -005	R08120255 -007	R09010301 -011	R09020293 -007
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.003	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.31	0.33	0.29	0.28	0.35	0.3	0.24
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.46	0.46	0.44	0.43	0.44	0.46	0.44
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.003	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	7.2	7.3	7.2	7	7.2	7.1	7.2
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.018	0.018	0.021	0.017	0.02	0.022	0.021
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Radionuclides - Dissolved								
Gross Alpha	pCi/L	4330	5470	4200	4410	5140	6730	5140
Gross Beta	pCi/L	1190	2290	1190	1840	2070	1790	1210
Lead 210	pCi/L	15.2	14.3	18.2	9.3	6.4	5.4	10.6
Polonium 210	pCi/L	0.6 (1)*	0.2 (1)*	0.3 (1)*	1 (1)*	0.7 (1)*	0.53 (0.51)*	0.07 (0.45)*
Radium 226	pCi/L	1270	1440	1190	1430	1110	1360	1330
Thorium 230	pCi/L	0.2 (0.2)*	< 0.2	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	-0.01 (0.2)*
Gross Gamma	pCi/L	3200	820	4400	1200	1500	1700	1000
Radionuclides - Suspended								
Lead 210	pCi/L	-4 (17.8)*	4.5 (7.8)*	4.1 (6.8)*	-0.5 (9)*	5.9 (10.4)*	6.2 (8)*	4.1 (5.7)*
Polonium 210	pCi/L	1 (1)*	0.54 (1)*	1.4	0.88	2.8	2	0.64
Radium 226	pCi/L	2.1	5.1	6.9	1.7	13.1	13.3	6.4
Thorium 230	pCi/L	0.2 (0.2)*	0 (0.2)*	-0.1 (0.2)*	0.1 (0.2)*	-0.3 (0.2)*	-0.2 (0.2)*	0.03 (0.3)*
Radionuclides - Total								
Radon 222	pCi/L	1E+05	72700	74300	86200	62200	48000	56800
Data Quality								
A/C Balance (± 5)	%	5.11	3.94	-0.23	4.57	6.75	0.67	0.76
Anions	meq/L	33.2	34.6	36	33.2	32.7	33.9	34.4
Cations	meq/L	36.8	37.4	35.8	36.3	37.4	34.3	35
Solids, Total Dissolved Calculated	mg/L	2230	2280	2290	2200	2190	2190	2230
TDS Balance (0.80 - 1.20)	dec. %	1.03	1	0.91	1.05	1.05	0.99	1.04



Powertech (USA) Inc. Hydro ID		Summary Statistics			
Month Sampled					
Date Collected					
Time Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Field Parameters					
Water Level Elevation	ft AMSL	11	3661	3662.94	3661.53
Field Temperature	°C	14	11.8	13.2	12.74
Field pH	s.u.	14	6.31	7.18	6.919
Field Dissolved Oxygen	mg/L	6	0.04	0.76	0.265
Field Conductivity	umhos/cm	14	2196	3000	2600
Field Turbidity	NTU	8	-0.1	4.7	1.91
Physical Properties					
Conductivity @ 25 C	umhos/cm	14	2440	3060	2621
Oxidation-Reduction Potential	mV	14	0	290	196
pH	s.u.	14	7.08	7.86	7.343
Sodium Adsorption Ratio (SAR)	unitless	14	1.4	1.8	1.56
Solids, Total Dissolved TDS @ 180 C	mg/L	14	2100	2500	2290
Major Ions					
Alkalinity, Total as CaCO3	mg/L	14	160	338	249.3
Carbonate as CO3	mg/L	14	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	14	195	412	303.9
Calcium	mg/L	14	343	421	385.5
Chloride	mg/L	14	11	15	12.9
Fluoride	mg/L	14	0.2	0.5	0.34
Magnesium	mg/L	14	111	134	124.1
Nitrogen, Ammonia as N	mg/L	14	< 0.1	0.2	0.06
Nitrogen, Nitrate as N	mg/L	14	< 0.05	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	14	< 0.05	< 0.1	0.05
Potassium	mg/L	14	18.8	20.7	19.37
Sodium	mg/L	14	120	151	137.5
Sulfate	mg/L	14	1200	1430	1351
Silica	mg/L	14	3.8	9.4	7
Metals - Dissolved					
Aluminum	mg/L	14	< 0.1	< 0.1	0.05
Arsenic	mg/L	14	< 0.001	0.026	0.0045
Barium	mg/L	14	< 0.1	< 0.1	0.05
Boron	mg/L	14	< 0.1	0.2	0.13
Cadmium	mg/L	14	< 0.005	< 0.005	0.0025
Chromium	mg/L	14	< 0.05	< 0.05	0.025
Copper	mg/L	14	< 0.01	< 0.01	0.005
Iron	mg/L	14	< 0.03	0.43	0.166
Lead	mg/L	14	< 0.001	< 0.001	0.0005
Manganese	mg/L	14	0.4	0.49	0.449
Mercury	mg/L	14	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	14	< 0.1	< 0.1	0.05
Nickel	mg/L	14	< 0.05	< 0.05	0.025
Selenium	mg/L	14	< 0.001	< 0.005	0.0009
Silver	mg/L	14	< 0.005	< 0.01	0.003
Thorium 232	mg/L	14	< 0.005	< 0.005	0.0025
Uranium	mg/L	14	0.018	0.172	0.0344
Vanadium	mg/L	14	< 0.1	< 0.1	0.05
Zinc	mg/L	14	< 0.01	0.02	0.007
Metals - Dissolved - Speciated					
Selenium-IV	mg/L	14	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	14	< 0.001	0.002	0.0006
Metals - Suspended					
Uranium	mg/L	14	< 3E-04	< 0.0009	0.00026
Metals - Total					
Antimony	mg/L	13	< 0.003	< 0.003	0.0015
Arsenic	mg/L	13	0.001	0.009	0.0041
Barium	mg/L	13	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		Summary Statistics			
Month Sampled					
Date Collected					
Time Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Beryllium	mg/L	13	< 0.001	< 0.003	0.0007
Boron	mg/L	13	< 0.1	< 0.1	0.1
Cadmium	mg/L	13	< 0.001	< 0.005	0.0023
Chromium	mg/L	13	< 0.05	< 0.05	0.025
Copper	mg/L	13	< 0.01	< 0.01	0.005
Iron	mg/L	13	0.24	0.35	0.305
Lead	mg/L	13	< 0.001	< 0.001	0.0005
Manganese	mg/L	13	0.43	0.52	0.459
Mercury	mg/L	14	< 1E-04	< 0.001	0.0004
Molybdenum	mg/L	13	< 0.01	< 0.1	0.05
Nickel	mg/L	13	< 0.05	< 0.05	0.025
Selenium	mg/L	13	< 0.001	< 0.005	0.0007
Silver	mg/L	13	< 0.005	< 0.02	0.003
Strontium	mg/L	13	7	8.2	7.45
Thallium	mg/L	13	< 0.001	< 0.001	0.0005
Uranium	mg/L	13	0.017	0.0541	0.02435
Zinc	mg/L	13	< 0.01	0.02	0.01
Radionuclides - Dissolved					
Gross Alpha	pCi/L	14	4090	6730	4991
Gross Beta	pCi/L	14	1090	2320	1629
Lead 210	pCi/L	14	0	61.8	19.29
Polonium 210	pCi/L	14	0.069	2	0.8
Radium 226	pCi/L	14	1110	1440	1289
Thorium 230	pCi/L	14	< 0.2	0.3	0.09
Gross Gamma	pCi/L	14	150	21000	3500
Radionuclides - Suspended					
Lead 210	pCi/L	14	< 1	20.3	4.15
Polonium 210	pCi/L	14	< 1	9.1	1.7
Radium 226	pCi/L	14	1	13.3	6.31
Thorium 230	pCi/L	14	-0.3	0.4	0.08
Radionuclides - Total					
Radon 222	pCi/L	14	48000	359000	105800
Data Quality					
A/C Balance (± 5)	%	14	-2.45	10.2	3.54
Anions	meq/L	14	30.6	36	33.5
Cations	meq/L	14	32.5	38.1	35.96
Solids, Total Dissolved Calculated	mg/L	14	2080	2290	2199
TDS Balance (0.80 - 1.20)	dec. %	14	0.91	1.11	1.043

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		681							
Month Sampled		Jan-08	Mar-08	Apr-08	May-08	May-08	Jun-08	Jul-08	Jul-08
Date Collected		1/30/2008	3/30/2008	4/21/2008	5/12/2008	5/18/2008	6/25/2008	7/1/2008	7/14/2008
Time Collected		3:40 PM	5:50 PM	8:06 PM	12:45 PM	11:18 AM	5:30 PM	4:54 PM	5:04 PM
Lab ID		R08010296	R08030315	R08040250	R08050143	R08050229	R08060452	R08070035	R08070244
		-002	-008	-006	-001	-001	-003	-005	-009
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	3645	NM	3643	3642	3640
Field Temperature	°C	14.32	14.5	14.62	15.5	16.08	14.54	14.66	14.02
Field pH	s.u.	7.81	7.71	7.75	7.71	7.62	7.76	7.45	7.75
Field Dissolved Oxygen	mg/L	0.57	0.14	0.3	0.27	0.09	NM	0.07	NM
Field Conductivity	umhos/cm	1203	1176	1350	1341	1283	1362	1373	1371
Field Turbidity	NTU	0.2	0	3.8	0.7	0.8	0.1	-0.1	4.9
Physical Properties									
Conductivity @ 25 C	umhos/cm	1320	1320	1330	1390	1500	1390	1230	1380
Oxidation-Reduction Potential	mV	0	170	280	240	220	140	220	150
pH	s.u.	7.98	7.8	8.02	7.91	8.15	7.99	7.85	7.85
Sodium Adsorption Ratio (SAR)	unitless	5.4	5.4	5.5	5.6	5.8	5.7	5.7	5.9
Solids, Total Dissolved TDS @ 180 C	mg/L	930	910	940	900	890	880	920	920
Major Ions									
Alkalinity, Total as CaCO3	mg/L	174	172	172	174	180	170	174	172
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	212	210	210	212	219	207	212	210
Calcium	mg/L	60.3	59.9	62	65.5	68.4	62.3	67.4	60.6
Chloride	mg/L	13	17	13	15	16	15	16	17
Fluoride	mg/L	0.4	0.4	0.4	0.6	0.5	0.4	0.5	0.6
Magnesium	mg/L	22.3	23.9	25	25.1	25.5	24	25.8	24.3
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	10.3	9.2	10	9.6	9.6	9.7	9.7	13.7
Sodium	mg/L	192	197	204	212	221	210	218	214
Sulfate	mg/L	498	478	466	449	465	449	457	619
Silica	mg/L	8.1	7.2	7.2	4	4.3	3.9	4.4	1.9
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.09	0.08	0.09	0.1	0.1	0.08	0.09	0.09
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.005	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.012	0.009	0.01	0.01	0.01	0.01	0.009	0.01
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	0.001	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	NM	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	NM	0.005	0.002	0.003	0.004	0.001	< 0.002	0.024
Barium	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		681							
Month Sampled		Jan-08	Mar-08	Apr-08	May-08	May-08	Jun-08	Jul-08	Jul-08
Date Collected		1/30/2008	3/30/2008	4/21/2008	5/12/2008	5/18/2008	6/25/2008	7/1/2008	7/14/2008
Time Collected		3:40 PM	5:50 PM	8:06 PM	12:45 PM	11:18 AM	5:30 PM	4:54 PM	5:04 PM
Lab ID		R08010296	R08030315	R08040250	R08050143	R08050229	R08060452	R08070035	R08070244
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	NM	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	NM	< 0.005	< 0.005	< 0.001	< 0.001	< 0.005	< 0.005	< 0.005
Chromium	mg/L	NM	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	NM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	NM	< 0.03	< 0.03	0.04	0.05	0.04	0.04	0.06
Lead	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	0.013	0.006	< 0.001
Manganese	mg/L	NM	0.08	0.09	0.1	0.09	0.08	0.08	0.09
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 1E-04	< 1E-04	< 2E-04	< 2E-04	< 2E-04
Molybdenum	mg/L	NM	< 0.1	< 0.1	< 0.01	< 0.01	< 0.1	< 0.1	< 0.1
Nickel	mg/L	NM	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.002	0.002
Silver	mg/L	NM	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	NM	1.2	1.2	1.3	1.3	1.1	1.2	1.3
Thallium	mg/L	NM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	NM	0.01	0.01	0.01	0.011	0.01	0.009	0.01
Zinc	mg/L	NM	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.09	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	656	2170	1400	2220	1220	1390	1180	2170
Gross Beta	pCi/L	226	659	430	675	304	364	326	583
Lead 210	pCi/L	46	0 (1)*	49.9	40.5	38.2	42.2	30	26.3
Polonium 210	pCi/L	2.6	0.6 (1)*	3.5	1.6	1.2	0.7 (1)*	0.7 (1)*	3.1
Radium 226	pCi/L	421	414	377	407	423	434	357	418
Thorium 230	pCi/L	< 0.2	0.3	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*
Gross Gamma	pCi/L	13000	2300	3400	290	6600	210	1500	13000
Radionuclides - Suspended									
Lead 210	pCi/L	1.7	16.8	16.7	20.8	20.2	6.2 (7.4)*	5.3 (9.9)*	3.7 (21.4)*
Polonium 210	pCi/L	1.6	1.2	0 (1)*	2.4	3.2	1.4	1.5	0.9 (1)*
Radium 226	pCi/L	9.9	3.5	0.2 (0.5)*	1.8	1.6	0.7	1.3	0.6 (0.6)*
Thorium 230	pCi/L	< 0.2	0.2 (0.2)*	0.2 (0.2)*	0.7	0.1 (0.2)*	0 (0.2)*	-0.1 (0.2)*	0.1 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	5E+05	3E+05	3E+05	246	5E+05	4E+05	3E+05	2E+05
Data Quality									
A/C Balance (± 5)	%	-2.72	-0.5	2.67	5.47	5.53	4.51	6.24	-0.02
Anions	meq/L	14.2	13.9	13.5	13.3	13.8	13.2	13.4	14.7
Cations	meq/L	13.5	13.8	14.3	14.8	15.4	14.5	15.2	14.7
Solids, Total Dissolved Calculated	mg/L	901	908	903	891	926	883	910	955
TDS Balance (0.80 - 1.20)	dec. %	1.03	1.01	1.04	1.01	0.97	0.99	1.01	0.96



Powertech (USA) Inc. Hydro ID		681						
Month Sampled		Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
Date Collected		8/19/2008	9/23/2008	10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009
Time Collected		7:08 PM	1:55 PM	3:00 PM	1:55 PM	10:48 AM	12:50 PM	4:18 PM
Lab ID		R08080301 -004	R08090356 -002	R08100295 -009	R08110211 -012	R08120255 -002	R09010301 -007	R09020293 -011
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Field Parameters								
Water Level Elevation	ft AMSL	3641	3640	3637	3641	3642	3641	3655
Field Temperature	°C	14.96	15.2	14.3	14.8	12.2	13.3	14.3
Field pH	s.u.	7.26	7.71	7.71	7.69	7.76	7.9	7.84
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	NM	NM	NM
Field Conductivity	umhos/cm	1271	1410	1380	1390	1410	1400	1360
Field Turbidity	NTU	4.6	NM	NM	NM	NM	NM	NM
Physical Properties								
Conductivity @ 25 C	umhos/cm	1450	1020	1380	1270	1260	1310	1300
Oxidation-Reduction Potential	mV	160	210	210	280	290	270	140
pH	s.u.	8.01	7.84	8.06	8.16	7.82	7.85	7.83
Sodium Adsorption Ratio (SAR)	unitless	5.9	5.7	6	5.9	5.9	6.2	5.4
Solids, Total Dissolved TDS @ 180 C	mg/L	920	890	880	900	900	940	900
Major Ions								
Alkalinity, Total as CaCO3	mg/L	172	174	176	172	170	170	174
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	210	212	215	210	207	207	212
Calcium	mg/L	66.5	65	61.4	64.7	62.9	53.6	63
Chloride	mg/L	16	16	17	16	15	13	13
Fluoride	mg/L	0.5	0.5	0.4	0.4	0.4	0.6	0.5
Magnesium	mg/L	24.7	24.6	23.2	24.5	23.9	20.9	24.4
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	9.8	9.3	9.5	9.7	9.7	10	10.3
Sodium	mg/L	222	212	216	218	215	213	200
Sulfate	mg/L	489	515	491	478	453	465	479
Silica	mg/L	3.9	8.5	8.5	8.7	9.3	7.8	7.9
Metals - Dissolved								
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.002	0.002	0.003	0.002	0.001	0.002	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.09	0.07	0.08	0.08	0.09	0.07	0.08
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.01	0.009	0.009	0.01	0.008	0.008	0.009
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated								
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended								
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 9E-04	< 3E-04	< 3E-04
Metals - Total								
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.001	0.002	0.003	0.002	0.002	0.001	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		681						
Month Sampled		Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09
Date Collected		8/19/2008	9/23/2008	10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009
Time Collected		7:08 PM	1:55 PM	3:00 PM	1:55 PM	10:48 AM	12:50 PM	4:18 PM
Lab ID		R08080301 -004	R08090356 -002	R08100295 -009	R08110211 -012	R08120255 -002	R09010301 -007	R09020293 -011
Analyte	Units	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.06	0.07	0.06	0.06	0.09	0.07	0.04
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.09	0.08	0.08	0.09	0.08	0.07	0.08
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	1.2	1.2	1.2	1.1	1.1	1.1	1.2
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.004	0.01	0.01	0.009	0.008	0.008	0.009
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Radionuclides - Dissolved								
Gross Alpha	pCi/L	1430	1180	1440	1850	1560	1210	1460
Gross Beta	pCi/L	423	264	412	605	526	361	402
Lead 210	pCi/L	32.2	28.3	22.6	29	10.7	11.5	37.6
Polonium 210	pCi/L	3.7	0.8 (1)*	5.1	2.9	4.8	3.8	0.28 (0.46)*
Radium 226	pCi/L	362	445	356	398	291	258	336
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	-0 (0.1)*
Gross Gamma	pCi/L	2800	1200	2200	2100	320	190	6000
Radionuclides - Suspended								
Lead 210	pCi/L	-1 (17.8)*	4.9 (7.8)*	18	10.8	24.2	2.2 (8)*	25.9
Polonium 210	pCi/L	0.6 (1)*	0.88	1.5	2.2	9.2	1.7	2.3
Radium 226	pCi/L	0.8	0.9	1.3	0.08 (0.4)*	1.5	1.1	1.3
Thorium 230	pCi/L	0 (0.2)*	0.1 (0.2)*	-0.2 (0.2)*	0 (0.2)*	-0.1 (0.2)*	0.1 (0.2)*	0.1 (0.3)*
Radionuclides - Total								
Radon 222	pCi/L	3E+05	3E+05	3E+05	3E+05	2200	1E+05	4E+05
Data Quality								
A/C Balance (± 5)	%	4.01	0.19	1.42	3.94	5.22	1.57	0.99
Anions	meq/L	14.1	14.7	14.2	13.9	13.3	13.5	13.9
Cations	meq/L	15.3	14.7	14.6	15	14.7	13.9	14.1
Solids, Total Dissolved Calculated	mg/L	942	969	947	939	907	899	916
TDS Balance (0.80 - 1.20)	dec. %	0.98	0.92	0.93	0.96	0.99	1.05	0.98



Powertech (USA) Inc. Hydro ID		Summary Statistics			
Month Sampled					
Date Collected					
Time Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Field Parameters					
Water Level Elevation	ft AMSL	11	3637	3654.7	3642.3
Field Temperature	°C	15	12.2	16.08	14.487
Field pH	s.u.	15	7.26	7.9	7.7
Field Dissolved Oxygen	mg/L	6	0.07	0.57	0.24
Field Conductivity	umhos/cm	15	1176	1410	1339
Field Turbidity	NTU	9	-0.1	4.9	1.67
Physical Properties					
Conductivity @ 25 C	umhos/cm	15	1020	1500	1320
Oxidation-Reduction Potential	mV	15	0	290	199
pH	s.u.	15	7.8	8.16	7.941
Sodium Adsorption Ratio (SAR)	unitless	15	5.4	6.2	5.73
Solids, Total Dissolved TDS @ 180 C	mg/L	15	880	940	908
Major Ions					
Alkalinity, Total as CaCO3	mg/L	15	170	180	173
Carbonate as CO3	mg/L	15	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	15	207	219	211
Calcium	mg/L	15	53.6	68.4	62.9
Chloride	mg/L	15	13	17	15.2
Fluoride	mg/L	15	0.4	0.6	0.47
Magnesium	mg/L	15	20.9	25.8	24.14
Nitrogen, Ammonia as N	mg/L	15	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	15	< 0.05	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	15	< 0.05	< 0.1	0.05
Potassium	mg/L	15	9.2	13.7	10.01
Sodium	mg/L	15	192	222	210.9
Sulfate	mg/L	15	449	619	483.4
Silica	mg/L	15	1.9	9.3	6.37
Metals - Dissolved					
Aluminum	mg/L	15	< 0.1	< 0.1	0.05
Arsenic	mg/L	15	0.001	0.003	0.0021
Barium	mg/L	15	< 0.1	< 0.1	0.05
Boron	mg/L	15	< 0.1	< 0.1	0.05
Cadmium	mg/L	15	< 0.005	< 0.005	0.0025
Chromium	mg/L	15	< 0.05	< 0.05	0.025
Copper	mg/L	15	< 0.01	< 0.01	0.005
Iron	mg/L	15	< 0.03	< 0.03	0.015
Lead	mg/L	15	< 0.001	0.004	0.0007
Manganese	mg/L	15	0.07	0.1	0.09
Mercury	mg/L	15	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	15	< 0.1	< 0.1	0.05
Nickel	mg/L	15	< 0.05	< 0.05	0.025
Selenium	mg/L	15	< 0.001	< 0.005	0.0009
Silver	mg/L	15	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	15	< 0.005	< 0.005	0.0025
Uranium	mg/L	15	0.008	0.0117	0.0095
Vanadium	mg/L	15	< 0.1	< 0.1	0.05
Zinc	mg/L	15	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated					
Selenium-IV	mg/L	15	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	15	< 0.001	< 0.001	0.0005
Metals - Suspended					
Uranium	mg/L	15	< 3E-04	0.001	0.0002
Metals - Total					
Antimony	mg/L	14	< 0.003	< 0.003	0.0015
Arsenic	mg/L	14	< 0.002	0.024	0.0038
Barium	mg/L	14	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		Summary Statistics			
Month Sampled					
Date Collected					
Time Collected					
Lab ID					
Analyte	Units	n	Minimum	Maximum	Mean**
Beryllium	mg/L	14	< 0.001	< 0.001	0.0005
Boron	mg/L	14	< 0.1	< 0.2	0.05
Cadmium	mg/L	14	< 0.001	< 0.005	0.0022
Chromium	mg/L	14	< 0.05	< 0.05	0.025
Copper	mg/L	14	< 0.01	< 0.01	0.005
Iron	mg/L	14	< 0.03	0.09	0.051
Lead	mg/L	14	< 0.001	0.013	0.0018
Manganese	mg/L	14	0.07	0.1	0.08
Mercury	mg/L	15	< 1E-04	< 0.001	0.0004
Molybdenum	mg/L	14	< 0.01	< 0.1	0.04
Nickel	mg/L	14	< 0.05	< 0.05	0.025
Selenium	mg/L	14	< 0.001	< 0.002	0.0008
Silver	mg/L	14	< 0.005	< 0.005	0.0025
Strontium	mg/L	14	1.1	1.3	1.19
Thallium	mg/L	14	< 0.001	< 0.001	0.0005
Uranium	mg/L	14	0.004	0.0108	0.0092
Zinc	mg/L	14	< 0.01	0.09	0.012
Radionuclides - Dissolved					
Gross Alpha	pCi/L	15	656	2220	1502
Gross Beta	pCi/L	15	226	675	437.3
Lead 210	pCi/L	15	0	49.9	29.67
Polonium 210	pCi/L	15	0.28	5.1	2.36
Radium 226	pCi/L	15	258	445	379.8
Thorium 230	pCi/L	15	< 0.2	0.3	0.07
Gross Gamma	pCi/L	15	190	22000	5000
Radionuclides - Suspended					
Lead 210	pCi/L	15	-1	25.9	11.76
Polonium 210	pCi/L	15	0	9.2	2.04
Radium 226	pCi/L	15	0.08	9.9	1.77
Thorium 230	pCi/L	15	< 0.2	0.7	0.09
Radionuclides - Total					
Radon 222	pCi/L	15	246	462000	278000
Data Quality					
A/C Balance (± 5)	%	15	-2.72	6.24	2.568
Anions	meq/L	15	13.2	14.7	13.84
Cations	meq/L	15	13.5	15.4	14.57
Solids, Total Dissolved Calculated	mg/L	15	883	969	919.7
TDS Balance (0.80 - 1.20)	dec. %	15	0.92	1.05	0.989

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		682		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		3:22 PM				
Lab ID		R08070115-003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	13.11	1	13.11	13.11	13.11
Field pH	s.u.	6.93	1	6.93	6.93	6.93
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	2531	1	2531	2531	2531
Field Turbidity	NTU	32	1	32	32	32
Physical Properties						
Conductivity @ 25 C	umhos/cm	2360	1	2360	2360	2360
Oxidation-Reduction Potential	mV	290	1	290	290	290
pH	s.u.	7.3	1	7.3	7.3	7.3
Sodium Adsorption Ratio (SAR)	unitless	1.3	1	1.3	1.3	1.3
Solids, Total Dissolved TDS @ 180 C	mg/L	1800	1	1800	1800	1800
Major Ions						
Alkalinity, Total as CaCO3	mg/L	242	1	242	242	242
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	295	1	295	295	295
Calcium	mg/L	365	1	365	365	365
Chloride	mg/L	12	1	12	12	12
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	109	1	109	109	109
Nitrogen, Ammonia as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	22.9	1	22.9	22.9	22.9
Sodium	mg/L	113	1	113	113	113
Sulfate	mg/L	1170	1	1170	1170	1170
Silica	mg/L	2.1	1	2.1	2.1	2.1
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.002	1	0.002	0.002	0.002
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.2	1	0.2	0.2	0.2
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.51	1	0.51	0.51	0.51
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	0.02	1	0.02	0.02	0.02
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Metals - Suspended						
Uranium	mg/L	4E-04	1	4E-04	4E-04	4E-04
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.002
Arsenic	mg/L	0.01	1	0.01	0.01	0.01
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		682		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		3:22 PM				
Lab ID		R08070115 -003				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	0.01	1	0.01	0.01	0.01
Iron	mg/L	1.15	1	1.15	1.15	1.15
Lead	mg/L	0.001	1	0.001	0.001	0.001
Manganese	mg/L	0.55	1	0.55	0.55	0.55
Mercury	mg/L	< 2E-04	1	< 2E-04	< 2E-04	1E-04
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.002	1	0.002	0.002	0.002
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Strontium	mg/L	6.6	1	6.6	6.6	6.6
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Uranium	mg/L	0.023	1	0.023	0.023	0.023
Zinc	mg/L	0.01	1	0.01	0.01	0.01
Radionuclides - Dissolved						
Gross Alpha	pCi/L	50.3	1	50.3	50.3	50.3
Gross Beta	pCi/L	14	1	14	14	14
Lead 210	pCi/L	2.4 (7.9)*	1	2.4	2.4	2.4
Polonium 210	pCi/L	-0.1 (1)*	1	-0.1	-0.1	-0.1
Radium 226	pCi/L	3.4	1	3.4	3.4	3.4
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	790	1	790	790	790
Radionuclides - Suspended						
Lead 210	pCi/L	-9.2 (21.4)*	1	-9.2	-9.2	-9.2
Polonium 210	pCi/L	0.3 (1)*	1	0.3	0.3	0.3
Radium 226	pCi/L	-0.3 (0.7)*	1	-0.3	-0.3	-0.3
Thorium 230	pCi/L	0.3	1	0.3	0.3	0.3
Radionuclides - Total						
Radon 222	pCi/L	1380	1	1380	1380	1380
Data Quality						
A/C Balance (± 5)	%	5.13	1	5.13	5.13	5.13
Anions	meq/L	29.5	1	29.5	29.5	29.5
Cations	meq/L	32.7	1	32.7	32.7	32.7
Solids, Total Dissolved Calculated	mg/L	1940	1	1940	1940	1940
TDS Balance (0.80 - 1.20)	dec. %	0.94	1	0.94	0.94	0.94

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		684	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		5:22 PM				
Lab ID		R08070115 -004				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	13.02	1	13.02	13.02	13.02
Field pH	s.u.	6.98	1	6.98	6.98	6.98
Field Dissolved Oxygen	mg/L	0.32	1	0.32	0.32	0.32
Field Conductivity	umhos/cm	2696	1	2696	2696	2696
Field Turbidity	NTU	39.2	1	39.2	39.2	39.2
Physical Properties						
Conductivity @ 25 C	umhos/cm	2510	1	2510	2510	2510
Oxidation-Reduction Potential	mV	300	1	300	300	300
pH	s.u.	7.43	1	7.43	7.43	7.43
Sodium Adsorption Ratio (SAR)	unitless	1.5	1	1.5	1.5	1.5
Solids, Total Dissolved TDS @ 180 C	mg/L	2200	1	2200	2200	2200
Major Ions						
Alkalinity, Total as CaCO3	mg/L	274	1	274	274	274
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	334	1	334	334	334
Calcium	mg/L	375	1	375	375	375
Chloride	mg/L	11	1	11	11	11
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	119	1	119	119	119
Nitrogen, Ammonia as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	24.5	1	24.5	24.5	24.5
Sodium	mg/L	127	1	127	127	127
Sulfate	mg/L	1280	1	1280	1280	1280
Silica	mg/L	2.7	1	2.7	2.7	2.7
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.03	1	0.03	0.03	0.03
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.2	1	0.2	0.2	0.2
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.47	1	0.47	0.47	0.47
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.54	1	0.54	0.54	0.54
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.067	1	0.0667	0.0667	0.0667
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	0.177	1	0.177	0.177	0.177
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	0.04	1	0.04	0.04	0.04
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		684		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		5:22 PM				
Lab ID		R08070115 -004				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	0.1	1	0.1	0.1	0.1
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	1.68	1	1.68	1.68	1.68
Lead	mg/L	0.001	1	0.001	0.001	0.001
Manganese	mg/L	0.63	1	0.63	0.63	0.63
Mercury	mg/L	< 2E-04	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.005	1	0.005	0.005	0.005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	7.6	1	7.6	7.6	7.6
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.336	1	0.336	0.336	0.336
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	1890	1	1890	1890	1890
Gross Beta	pCi/L	556	1	556	556	556
Lead 210	pCi/L	29	1	29	29	29
Polonium 210	pCi/L	5.1	1	5.1	5.1	5.1
Radium 226	pCi/L	543	1	543	543	543
Thorium 230	pCi/L	0.8	1	0.8	0.8	0.8
Gross Gamma	pCi/L	1800	1	1800	1800	1800
Radionuclides - Suspended						
Lead 210	pCi/L	94.6	1	94.6	94.6	94.6
Polonium 210	pCi/L	56	1	56	56	56
Radium 226	pCi/L	44.1	1	44.1	44.1	44.1
Thorium 230	pCi/L	65.9	1	65.9	65.9	65.9
Radionuclides - Total						
Radon 222	pCi/L	2E+05	1	234000	234000	234000
Data Quality						
A/C Balance (± 5)	%	3.15	1	3.15	3.15	3.15
Anions	meq/L	32.6	1	32.6	32.6	32.6
Cations	meq/L	34.7	1	34.7	34.7	34.7
Solids, Total Dissolved Calculated	mg/L	2110	1	2110	2110	2110
TDS Balance (0.80 - 1.20)	dec. %	1.07	1	1.07	1.07	1.07

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		685		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		3:48 PM				
Lab ID		R08070035 -007				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	14.93	1	14.93	14.93	14.93
Field pH	s.u.	7.61	1	7.61	7.61	7.61
Field Dissolved Oxygen	mg/L	1.09	1	1.09	1.09	1.09
Field Conductivity	umhos/cm	1349	1	1349	1349	1349
Field Turbidity	NTU	-0.4	1	-0.4	-0.4	-0.4
Physical Properties						
Conductivity @ 25 C	umhos/cm	1150	1	1150	1150	1150
Oxidation-Reduction Potential	mV	240	1	240	240	240
pH	s.u.	7.91	1	7.91	7.91	7.91
Sodium Adsorption Ratio (SAR)	unitless	5.3	1	5.3	5.3	5.3
Solids, Total Dissolved TDS @ 180 C	mg/L	930	1	930	930	930
Major Ions						
Alkalinity, Total as CaCO3	mg/L	162	1	162	162	162
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	197	1	197	197	197
Calcium	mg/L	71.9	1	71.9	71.9	71.9
Chloride	mg/L	11	1	11	11	11
Fluoride	mg/L	0.5	1	0.5	0.5	0.5
Magnesium	mg/L	26.2	1	26.2	26.2	26.2
Nitrogen, Ammonia as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	9.9	1	9.9	9.9	9.9
Sodium	mg/L	206	1	206	206	206
Sulfate	mg/L	460	1	460	460	460
Silica	mg/L	4.5	1	4.5	4.5	4.5
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.003	1	0.003	0.003	0.003
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.09	1	0.09	0.09	0.09
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.003	1	0.003	0.003	0.003
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.006	1	0.0057	0.0057	0.0057
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	0.003	1	0.003	0.003	0.003
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	0.005	1	0.005	0.005	0.005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		685		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		3:48 PM				
Lab ID		R08070035 -007				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Manganese	mg/L	0.08	1	0.08	0.08	0.08
Mercury	mg/L	< 2E-04	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.005	1	0.005	0.005	0.005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	1.2	1	1.2	1.2	1.2
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.006	1	0.0056	0.0056	0.0056
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	23.8	1	23.8	23.8	23.8
Gross Beta	pCi/L	12	1	12	12	12
Lead 210	pCi/L	5.9 (7.9)*	1	5.9	5.9	5.9
Polonium 210	pCi/L	0.1 (1)*	1	0.1	0.1	0.1
Radium 226	pCi/L	2.3	1	2.3	2.3	2.3
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	940	1	940	940	940
Radionuclides - Suspended						
Lead 210	pCi/L	-1.1 (9.9)*	1	-1.1	-1.1	-1.1
Polonium 210	pCi/L	0.5 (1)*	1	0.5	0.5	0.5
Radium 226	pCi/L	0.3	1	0.3	0.3	0.3
Thorium 230	pCi/L	0.1 (0.2)*	1	0.1	0.1	0.1
Radionuclides - Total						
Radon 222	pCi/L	9460	1	9460	9460	9460
Data Quality						
A/C Balance (± 5)	%	6.47	1	6.47	6.47	6.47
Anions	meq/L	13.2	1	13.2	13.2	13.2
Cations	meq/L	15	1	15	15	15
Solids, Total Dissolved Calculated	mg/L	896	1	896	896	896
TDS Balance (0.80 - 1.20)	dec. %	1.04	1	1.04	1.04	1.04

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		686		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		7:03 PM				
Lab ID		R08070115 -007				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	13.15	1	13.15	13.15	13.15
Field pH	s.u.	9.03	1	9.03	9.03	9.03
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	1774	1	1774	1774	1774
Field Turbidity	NTU	6.6	1	6.6	6.6	6.6
Physical Properties						
Conductivity @ 25 C	umhos/cm	1720	1	1720	1720	1720
Oxidation-Reduction Potential	mV	210	1	210	210	210
pH	s.u.	8.68	1	8.68	8.68	8.68
Sodium Adsorption Ratio (SAR)	unitless	3.2	1	3.2	3.2	3.2
Solids, Total Dissolved TDS @ 180 C	mg/L	1300	1	1300	1300	1300
Major Ions						
Alkalinity, Total as CaCO3	mg/L	42	1	42	42	42
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	51	1	51	51	51
Calcium	mg/L	150	1	150	150	150
Chloride	mg/L	13	1	13	13	13
Fluoride	mg/L	0.3	1	0.3	0.3	0.3
Magnesium	mg/L	49.5	1	49.5	49.5	49.5
Nitrogen, Ammonia as N	mg/L	0.6	1	0.6	0.6	0.6
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	0.1	1	0.1	0.1	0.1
Potassium	mg/L	27.7	1	27.7	27.7	27.7
Sodium	mg/L	176	1	176	176	176
Sulfate	mg/L	812	1	812	812	812
Silica	mg/L	1.7	1	1.7	1.7	1.7
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.002	1	0.002	0.002	0.002
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.03	1	0.03	0.03	0.03
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.002	1	0.002	0.002	0.002
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Uranium	mg/L	0.001	1	0.001	0.001	0.001
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	0.002	1	0.002	0.002	0.002
Metals - Suspended						
Uranium	mg/L	4E-04	1	4E-04	4E-04	4E-04
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.002
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		686	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		7:03 PM				
Lab ID		R08070115 -007				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.07	1	0.07	0.07	0.07
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.06	1	0.06	0.06	0.06
Mercury	mg/L	< 2E-04	1	< 2E-04	< 2E-04	1E-04
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.008	1	0.008	0.008	0.008
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.003
Strontium	mg/L	4.4	1	4.4	4.4	4.4
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	5E-04
Uranium	mg/L	0.007	1	0.007	0.007	0.007
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	11.3	1	11.3	11.3	11.3
Gross Beta	pCi/L	16.4	1	16.4	16.4	16.4
Lead 210	pCi/L	6.1 (7.9)*	1	6.1	6.1	6.1
Polonium 210	pCi/L	0.3 (1)*	1	0.3	0.3	0.3
Radium 226	pCi/L	3.3	1	3.3	3.3	3.3
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	1000	1	1000	1000	1000
Radionuclides - Suspended						
Lead 210	pCi/L	-2.3 (21.4)*	1	-2.3	-2.3	-2.3
Polonium 210	pCi/L	0.4 (1)*	1	0.4	0.4	0.4
Radium 226	pCi/L	-0.4 (0.6)*	1	-0.4	-0.4	-0.4
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides - Total						
Radon 222	pCi/L	467	1	467	467	467
Data Quality						
A/C Balance (± 5)	%	4.8	1	4.8	4.8	4.8
Anions	meq/L	18.1	1	18.1	18.1	18.1
Cations	meq/L	20	1	20	20	20
Solids, Total Dissolved Calculated	mg/L	1260	1	1260	1260	1260
TDS Balance (0.80 - 1.20)	dec. %	1	1	1	1	1

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		687	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		6:02 PM				
Lab ID		R08070035 -004				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	3641	1	3641	3641	3640.5
Field Temperature	°C	14.08	1	14.08	14.08	14.08
Field pH	s.u.	7.81	1	7.81	7.81	7.81
Field Dissolved Oxygen	mg/L	0.21	1	0.21	0.21	0.21
Field Conductivity	umhos/cm	1295	1	1295	1295	1295
Field Turbidity	NTU	NM	0	NM	NM	NM
Physical Properties						
Conductivity @ 25 C	umhos/cm	1230	1	1230	1230	1230
Oxidation-Reduction Potential	mV	220	1	220	220	220
pH	s.u.	7.77	1	7.77	7.77	7.77
Sodium Adsorption Ratio (SAR)	unitless	5.1	1	5.1	5.1	5.1
Solids, Total Dissolved TDS @ 180 C	mg/L	940	1	940	940	940
Major Ions						
Alkalinity, Total as CaCO3	mg/L	184	1	184	184	184
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	224	1	224	224	224
Calcium	mg/L	76.7	1	76.7	76.7	76.7
Chloride	mg/L	11	1	11	11	11
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	29.9	1	29.9	29.9	29.9
Nitrogen, Ammonia as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	10.7	1	10.7	10.7	10.7
Sodium	mg/L	208	1	208	208	208
Sulfate	mg/L	458	1	458	458	458
Silica	mg/L	4.4	1	4.4	4.4	4.4
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	1	0.001	0.001	0.001
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.11	1	0.11	0.11	0.11
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.004	1	0.004	0.004	0.004
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 3E-04	< 3E-04	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.002	1	< 0.002	< 0.002	0.001
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		687		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		6:02 PM				
Lab ID		R08070035 -004				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.11	1	0.11	0.11	0.11
Lead	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Manganese	mg/L	0.1	1	0.1	0.1	0.1
Mercury	mg/L	< 2E-04	1	< 2E-04	< 2E-04	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.002	1	< 0.002	< 0.002	0.001
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	1.4	1	1.4	1.4	1.4
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.004	1	0.004	0.004	0.0042
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	114	1	114	114	114
Gross Beta	pCi/L	33.5	1	33.5	33.5	33.5
Lead 210	pCi/L	3.9 (7.9)*	1	3.9	3.9	3.9
Polonium 210	pCi/L	0.6 (1)*	1	0.6	0.6	0.6
Radium 226	pCi/L	25.7	1	25.7	25.7	25.7
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	1100	1	1100	1100	1100
Radionuclides - Suspended						
Lead 210	pCi/L	-4 (9.9)*	1	-4	-4	-4
Polonium 210	pCi/L	0 (1)*	1	0	0	0
Radium 226	pCi/L	0.3	1	0.3	0.3	0.3
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides - Total						
Radon 222	pCi/L	3380	1	3380	3380	3380
Data Quality						
A/C Balance (± 5)	%	7.13	1	7.13	7.13	7.13
Anions	meq/L	13.6	1	13.6	13.6	13.6
Cations	meq/L	15.6	1	15.6	15.6	15.6
Solids, Total Dissolved Calculated	mg/L	918	1	918	918	918
TDS Balance (0.80 - 1.20)	dec. %	1.02	1	1.02	1.02	1.02

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		688							
Month Sampled		Apr-08	Apr-08	Jun-08	Jun-08	Jul-08	Jul-08	Aug-08	Sep-08
Date Collected		4/2/2008	4/22/2008	6/10/2008	6/30/2008	7/7/2008	7/28/2008	8/20/2008	9/30/2008
Time Collected		6:07 PM	1:26 PM	4:37 PM	6:39 PM	6:49 PM	3:45 PM	10:07 AM	8:30 AM
Lab ID		R08040058	R08040287	R08060210	R08070005	R08070115	R08070471	R08080332	R08100014
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	-196.6	3662	3669	3662	NM	3663	3663	3662
Field Temperature	°C	12.23	11.96	12.35	12.85	12.33	12.46	12.51	11.5
Field pH	s.u.	9.21	9.68	8.35	8.49	8.37	8.45	8.11	8.14
Field Dissolved Oxygen	mg/L	2.12	NM	NM	NM	NM	NM	NM	NM
Field Conductivity	umhos/cm	1059	1096	1259	1212	1274	1394	1159	1270
Field Turbidity	NTU	2	5.8	NM	3.8	9.3	6.1	4.4	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1180	1070	1260	1140	1170	1280	1430	1160
Oxidation-Reduction Potential	mV	110	280	180	220	240	290	180	290
pH	s.u.	10.3	9.15	8.82	8.6	8.33	8.21	8.35	7.9
Sodium Adsorption Ratio (SAR)	unitless	7.6	5.9	6.9	6.2	5.4	5.5	5.8	6
Solids, Total Dissolved TDS @ 180 C	mg/L	690	690	740	770	780	790	810	790
Major Ions									
Alkalinity, Total as CaCO3	mg/L	98	90	100	136	160	160	166	166
Carbonate as CO3	mg/L	53	17	7	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	12	76	107	156	190	195	202	202
Calcium	mg/L	25.8	50.1	34.1	40.4	49.3	50	51.7	52.4
Chloride	mg/L	13	10	11	11	11	11	11	11
Fluoride	mg/L	0.4	0.5	0.5	0.6	0.5	0.5	0.6	0.6
Magnesium	mg/L	13.6	20.5	16.6	19.2	20	21.1	21.6	21.8
Nitrogen, Ammonia as N	mg/L	0.5	0.1	0.1	0.2	0.1	0.2	0.1	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	16.8	12.2	12.5	12.9	15.6	12	12.1	12.2
Sodium	mg/L	193	197	195	191	177	183	196	203
Sulfate	mg/L	428	390	398	407	413	445	425	422
Silica	mg/L	7.9	3.7	3.7	3.8	1.9	4.1	3.9	75.3
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.001	0.002	0.001	0.002	0.001	0.001	< 0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	0.04	< 0.03	0.03	0.05	0.04	0.04
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	< 0.01	0.06	0.02	0.02	0.04	0.04	0.05	0.06
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 8E-04	0.015	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.002	0.002	< 0.002	0.003	0.003	0.015	0.002	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		688							
Month Sampled		Apr-08	Apr-08	Jun-08	Jun-08	Jul-08	Jul-08	Aug-08	Sep-08
Date Collected		4/2/2008	4/22/2008	6/10/2008	6/30/2008	7/7/2008	7/28/2008	8/20/2008	9/30/2008
Time Collected		6:07 PM	1:26 PM	4:37 PM	6:39 PM	6:49 PM	3:45 PM	10:07 AM	8:30 AM
Lab ID		R08040058	R08040287	R08060210	R08070005	R08070115	R08070471	R08080332	R08100014
		-001	-002	-002	-002	-006	-001	-001	-001
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.07	0.05	0.15	0.08	0.18	0.14	0.24	0.19
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.03	0.01	0.01	0.02	0.04	0.05	0.05	0.06
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 2E-04	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	1.2	1.2	1.1	1.1	1.4	1.2	1.3	1.3
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	2.9	10.1	17.3	13.2	29.8	3.9	11.8	4.9
Gross Beta	pCi/L	8.8	16.9	17.1	16.5	14.1	14.3	11	10.9
Lead 210	pCi/L	0 (1)*	-2.7 (1)*	-0.5 (5.9)*	-0.1 (7.9)*	-0.4 (7.9)*	-6 (12.5)*	3.8 (10.7)*	-0.1 (4.2)*
Polonium 210	pCi/L	1	1.9	0 (1)*	0 (1)*	0.9 (1)*	0.2 (1)*	0 (1)*	0.2 (1)*
Radium 226	pCi/L	0.3	1.2	2.5	0.6	6.7	0.6	1.7	0.6
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	-0.1 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	1000	990	950	0 (20)*	230
Radionuclides - Suspended									
Lead 210	pCi/L	-0.4 (1)*	-0.1 (1)*	4.8 (10.6)*	-2.3 (10.1)*	-6 (21.4)*	-0.6 (11.9)*	-6 (17.8)*	1.2 (8.6)*
Polonium 210	pCi/L	1	0.4 (1)*	0.2 (1)*	0.3 (1)*	0.1 (1)*	0 (1)*	-0.1 (1)*	0.15 (1)*
Radium 226	pCi/L	0.9	0.02 (0.5)*	-0.3 (0.4)*	-0.3 (0.4)*	-0.3 (0.5)*	-0.4 (0.6)*	-0.3 (0.5)*	0.09 (0.4)*
Thorium 230	pCi/L	0.7	15.9	0.1 (0.2)*	0 (0.2)*	0.1 (0.2)*	0.2 (0.2)*	0 (0.2)*	-0.1 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	608	307	749	426	227	1160	449	535
Data Quality									
A/C Balance (± 5)	%	-0.06	12.1	5.73	3.05	0.43	-1.16	2.75	4.37
Anions	meq/L	11.3	10.2	10.6	11.5	12.1	12.8	12.5	12.4
Cations	meq/L	11.3	13.1	11.9	12.3	12.2	12.5	13.2	13.6
Solids, Total Dissolved Calculated	mg/L	771	744	738	774	788	830	829	1030
TDS Balance (0.80 - 1.20)	dec. %	0.89	0.92	1.01	0.99	0.99	0.95	0.97	0.77



Powertech (USA) Inc. Hydro ID		688					Summary Statistics				
Month Sampled		Oct-08	Nov-08	Dec-08	Jan-09	Feb-09					
Date Collected		10/20/2008	11/18/2008	12/22/2008	1/20/2009	2/24/2009					
Time Collected		12:15 PM	10:00 AM	9:45 AM	3:35 PM	1:23 PM					
Lab ID		R08100295-005	R08110211-004	R08120281-001	R09010301-012	R09020293-006					
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**	
Field Parameters											
Water Level Elevation	ft AMSL	3663	3663	3664	3663	3663	12	-196.6	3669.4	3341.6	
Field Temperature	°C	11.8	11.3	10.2	11.7	12.3	13	10.2	12.85	11.961	
Field pH	s.u.	8.04	8.14	8.23	8.17	8.31	13	8.04	9.68	8.438	
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	NM	1	2.12	2.12	2.12	
Field Conductivity	umhos/cm	1220	1240	1260	1270	1190	13	1059	1394	1223.3	
Field Turbidity	NTU	NM	NM	NM	NM	NM	6	2	9.3	5.23	
Physical Properties											
Conductivity @ 25 C	umhos/cm	1260	1140	1110	1210	1200	13	1070	1430	1201	
Oxidation-Reduction Potential	mV	170	270	260	240	120	13	110	290	219	
pH	s.u.	8.15	8.19	7.87	8	8.03	13	7.87	10.3	8.45	
Sodium Adsorption Ratio (SAR)	unitless	5.9	6	5.9	5.7	5.3	13	5.3	7.6	6.01	
Solids, Total Dissolved TDS @ 180 C	mg/L	810	780	780	800	830	13	690	830	774	
Major Ions											
Alkalinity, Total as CaCO3	mg/L	162	146	166	166	166	13	90	166	144.8	
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	13	< 5	53	7.8	
Bicarbonate as HCO3	mg/L	197	178	202	197	202	13	12	202	162.8	
Calcium	mg/L	49	51.2	48.7	48.8	52	13	25.8	52.4	46.42	
Chloride	mg/L	12	12	12	11	11	13	10	13	11.3	
Fluoride	mg/L	0.4	0.5	0.4	0.6	0.6	13	0.4	0.6	0.52	
Magnesium	mg/L	20.1	21	21.1	20.5	21.4	13	13.6	21.8	19.88	
Nitrogen, Ammonia as N	mg/L	0.2	0.4	0.7	0.2	0.2	13	0.1	0.7	0.25	
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.05	< 0.1	0.05	
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.05	< 0.1	0.05	
Potassium	mg/L	12	12.5	12.3	14.2	12.1	13	12	16.8	13.03	
Sodium	mg/L	193	202	194	189	181	13	177	203	191.8	
Sulfate	mg/L	450	421	435	436	460	13	390	460	425	
Silica	mg/L	8.4	8.7	8.9	7.6	7.5	13	1.9	75.3	11.18	
Metals - Dissolved											
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	
Arsenic	mg/L	0.001	0.002	0.002	0.002	0.002	13	< 0.001	0.002	0.0014	
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025	
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025	
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005	
Iron	mg/L	0.05	< 0.03	< 0.03	0.03	0.03	13	< 0.03	0.05	0.03	
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005	
Manganese	mg/L	0.06	0.06	0.05	0.05	0.06	13	< 0.01	0.06	0.044	
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005	
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025	
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005	
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025	
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025	
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	13	< 0.0003	< 0.0003	0.0002	
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005	
Metals - Dissolved - Speciated											
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005	
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005	
Metals - Suspended											
Uranium	mg/L	< 3E-04	< 3E-04	< 9E-04	< 3E-04	< 3E-04	13	< 0.0003	0.0147	0.0013	
Metals - Total											
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	13	< 0.003	< 0.003	0.0015	
Arsenic	mg/L	0.004	0.006	0.004	0.001	0.003	13	< 0.002	0.015	0.0036	
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05	

Powertech (USA) Inc. Hydro ID		688					Summary Statistics							
Month Sampled		Oct-08	Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		10/20/2008	11/18/2008	12/22/2008	1/20/2009	2/24/2009								
Time Collected		12:15 PM	10:00 AM	9:45 AM	3:35 PM	1:23 PM								
Lab ID		R08100295-005	R08110211-004	R08120281-001	R09010301-012	R09020293-006								
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	13	< 0.1	< 0.2	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005				
Iron	mg/L	0.16	0.34	0.5	0.17	0.44	13	0.05	0.5	0.21				
Lead	mg/L	< 0.001	< 0.001	0.001	< 0.001	< 0.001	13	< 0.001	< 0.003	0.0006				
Manganese	mg/L	0.06	0.06	0.07	0.06	0.07	13	0.01	0.07	0.045				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	0.001	0.001	< 0.001	< 0.001	13	< 0.001	0.003	0.0008				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025				
Strontium	mg/L	1.3	1.3	1.2	1.3	1.3	13	1.1	1.4	1.25				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	5E-04	13	< 0.0003	0.0005	0.0002				
Zinc	mg/L	< 0.01	< 0.01	0.01	< 0.01	0.01	13	< 0.01	< 0.01	0.006				
Radionuclides - Dissolved														
Gross Alpha	pCi/L	10.2	15	1.9 (3.9)*	25.6	28.7	13	1.9	29.8	13.48				
Gross Beta	pCi/L	14.9	17.4	8.8	15.8	19.2	13	8.8	19.2	14.28				
Lead 210	pCi/L	1.1 (6.1)*	1.1 (4.4)*	1 (4)*	1 (4.2)*	-1 (5.4)*	13	-6	3.8	-0.22				
Polonium 210	pCi/L	0 (1)*	0 (1)*	0 (1)*	-0.01 (0.71)*	0.45	13	-0.009	1.9	0.36				
Radium 226	pCi/L	1.6	2.7	0.7	3.8	7.9	13	0.3	7.9	2.38				
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0.03 (0.2)*	13	-0.1	0.1	0.01				
Gross Gamma	pCi/L	310	0 (20)*	720	1100	0 ()*	13	0	1100	410				
Radionuclides - Suspended														
Lead 210	pCi/L	-3 (6.8)*	-5 (9)*	0.1 (10.4)*	3.2 (8)*	-0.9 (5.7)*	13	-6	4.8	-1.15				
Polonium 210	pCi/L	0 (1)*	-0.06 ()*	0 (1)*	-0 (0.43)*	-0.05 (0.73)*	13	-0.1	1	0.1				
Radium 226	pCi/L	-0.3 (0.5)*	0.2 (0.4)*	0.1 (0.5)*	0.1 (0.5)*	0.2 (0.3)*	13	-0.4	0.9	-0.02				
Thorium 230	pCi/L	0 (0.2)*	-0.2 (0.2)*	0.1 (0.2)*	-0.1 (0.2)*	0.1 (0.4)*	13	-0.2	15.9	1.29				
Radionuclides - Total														
Radon 222	pCi/L	184	162	81.1 (100)*	152	218	13	81.1	1160	404				
Data Quality														
A/C Balance (± 5)	%	-0.51	5.5	0.99	-0.14	-2.71	13	-2.71	12.1	2.33				
Anions	meq/L	13	12	12.7	12.8	13.2	13	10.2	13.2	12.08				
Cations	meq/L	12.8	13.4	13	12.7	12.6	13	11.3	13.6	12.66				
Solids, Total Dissolved Calculated	mg/L	857	831	848	840	858	13	738	1030	826				
TDS Balance (0.80 - 1.20)	dec. %	0.95	0.94	0.92	0.95	0.96	13	0.77	1.01	0.939				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		689							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	
Date Collected		3/30/2008	4/21/2008	5/28/2008	6/25/2008	7/1/2008	7/14/2008	8/19/2008	9/23/2008
Time Collected		5:25 PM	7:50 PM	10:25 PM	6:18 PM	4:17 PM	4:50 PM	7:18 PM	1:43 PM
Lab ID		R08030315	R08040250	R08050406	R08060452	R08070035	R08070244	R08080301	R08090356
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	3685	3685	3681	3682	3682
Field Temperature	°C	15.4	15.43	15.44	15.56	15.6	15.95	15.74	16.7
Field pH	s.u.	7.76	7.77	7.73	7.71	7.8	7.75	7.23	7.64
Field Dissolved Oxygen	mg/L	0.18	0.2	0.08	0.12	0.13	NM	NM	NM
Field Conductivity	umhos/cm	978	1128	1082	1116	1052	1125	1020	1090
Field Turbidity	NTU	27.9	27.8	24.8	23.8	NM	16.8	16.4	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1080	1110	1010	1270	1010	1040	1270	840
Oxidation-Reduction Potential	mV	190	300	210	150	220	190	170	230
pH	s.u.	7.85	8.02	7.8	8.08	7.84	7.83	7.96	7.77
Sodium Adsorption Ratio (SAR)	unitless	5.4	5.7	5.8	5.6	5.6	5.6	5.9	5.5
Solids, Total Dissolved TDS @ 180 C	mg/L	720	760	730	700	710	730	710	700
Major Ions									
Alkalinity, Total as CaCO3	mg/L	150	148	148	150	150	148	148	150
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	183	180	180	183	183	180	180	183
Calcium	mg/L	43.8	48.5	49.2	46.7	49.6	44.8	48.8	44.6
Chloride	mg/L	7	5	5	5	5	5	5	5
Fluoride	mg/L	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Magnesium	mg/L	15.6	16.8	16.4	16	16.9	16.4	16.2	15
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	7.4	7.9	8.1	7.7	7.8	10.7	7.9	6.9
Sodium	mg/L	165	180	184	174	179	173	185	165
Sulfate	mg/L	421	374	400	366	354	420	399	362
Silica	mg/L	7.7	8	4.6	4.3	5	2	4.3	10.3
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	0.001	0.001	0.001	0.001	< 0.02	< 0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.003	0.004	0.004	0.003	0.003	0.003	0.003	0.003
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	5E-04	< 3E-04	4E-04	5E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	< 0.003	0.002	0.004	0.003	< 0.002	< 0.001	< 0.004	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		689							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	
Date Collected		3/30/2008	4/21/2008	5/28/2008	6/25/2008	7/1/2008	7/14/2008	8/19/2008	9/23/2008
Time Collected		5:25 PM	7:50 PM	10:25 PM	6:18 PM	4:17 PM	4:50 PM	7:18 PM	1:43 PM
Lab ID		R08030315 -007	R08040250 -005	R08050406 -006	R08060452 -004	R08070035 -006	R08070244 -008	R08080301 -005	R08090356 -001
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003	< 0.002
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.72	0.52	1.33	1.15	2.23	0.82	0.73	0.45
Lead	mg/L	< 0.001	< 0.001	< 0.001	0.017	< 0.001	< 0.001	0.002	< 0.001
Manganese	mg/L	0.06	0.06	0.08	0.07	0.09	0.06	0.06	0.05
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 2E-04	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.002	0.003	< 0.002	< 0.003	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005
Strontium	mg/L	0.9	1	1	1	0.9	1	0.9	0.9
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.004	0.004	0.012	0.006	0.007	0.004	0.003	0.003
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.09
Radionuclides - Dissolved									
Gross Alpha	pCi/L	64.3	25.5	34.9	36.5	33.4	36	36.4	30.9
Gross Beta	pCi/L	21.2	13.2	12.2	15	14.7	9.5	13.3	9.2
Lead 210	pCi/L	-31 (1)*	-2.4 (1)*	6.3 (8.2)*	-6.5 (11.4)*	1.1 (7.9)*	-0.4 (9.2)*	2.1 (10.7)*	3.8 (9)*
Polonium 210	pCi/L	1.1	0.7 (1)*	-0.4 (1)*	0 (1)*	0.3 (1)*	0.1 (1)*	0.6 (1)*	0 (1)*
Radium 226	pCi/L	7.9	4.2	5.7	5.5	7.7	6.1	4.4	7.5
Thorium 230	pCi/L	0.2 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	-0.1 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*
Gross Gamma	pCi/L	86	0 (20)*	150	0 (20)*	930	0 (20)*	0 (20)*	960
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	-0.3 (1)*	-2 (17.7)*	1 (7.4)*	-3.9 (9.9)*	-0.1 (21.4)*	-9 (17.8)*	0.2 (7.8)*
Polonium 210	pCi/L	0.6 (1)*	0.6 (1)*	0.2 (1)*	0.1 (1)*	-0.1 (1)*	0 (1)*	0.1 (1)*	0.16 (1)*
Radium 226	pCi/L	2	0.02 (0.4)*	0.5 (0.5)*	-0.05 (0.5)*	0.9	-0.4 (0.6)*	-0.4 (0.6)*	0.2 (0.3)*
Thorium 230	pCi/L	0.2	0.3	0.4	0.4	0.1 (0.2)*	0.2 (0.2)*	0.2 (0.2)*	0.2 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	1950	1540	1390	2520	1820	1670	2520	1520
Data Quality									
A/C Balance (± 5)	%	-4.96	3.98	2.36	2.76	5.87	-2.08	2.54	0.52
Anions	meq/L	12	10.9	11.5	10.8	10.6	11.9	11.4	10.7
Cations	meq/L	10.8	11.8	12	11.4	11.9	11.4	12	10.8
Solids, Total Dissolved Calculated	mg/L	771	744	764	718	717	766	764	718
TDS Balance (0.80 - 1.20)	dec. %	0.93	1.02	0.95	0.98	0.99	0.95	0.93	0.98

Powertech (USA) Inc. Hydro ID		689					Summary Statistics						
Month Sampled	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	n					Minimum	Maximum	Mean**
Date Collected	10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected	2:46 PM	2:02 PM	11:02 AM	1:05 PM	4:04 PM								
Lab ID	R08100295 -008	R08110211 -011	R08120255 -003	R09010301 -008	R09020293 -010								
Analyte	Units	Result	Result	Result	Result		Result						
Field Parameters													
Water Level Elevation	ft AMSL	3681	3681	3680	3683	3683	10	3680.3	3685.5	3682.3			
Field Temperature	°C	15.2	15.9	13.2	14.4	15.5	13	13.2	16.7	15.39			
Field pH	s.u.	7.65	7.65	7.86	7.71	7.87	13	7.23	7.87	7.702			
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	NM	5	0.08	0.2	0.14			
Field Conductivity	umhos/cm	1090	1080	1270	1160	1090	13	978	1270	1099			
Field Turbidity	NTU	NM	NM	NM	NM	NM	6	16.4	27.9	22.92			
Physical Properties													
Conductivity @ 25 C	umhos/cm	1110	982	1100	1080	1040	13	840	1270	1072			
Oxidation-Reduction Potential	mV	220	280	280	270	130	13	130	300	220			
pH	s.u.	8.11	8.45	7.9	7.71	7.77	13	7.71	8.45	7.93			
Sodium Adsorption Ratio (SAR)	unitless	5.8	5.8	5.9	5.8	2.4	13	2.4	5.9	5.45			
Solids, Total Dissolved TDS @ 180 C	mg/L	730	660	750	780	690	13	660	780	721			
Major Ions													
Alkalinity, Total as CaCO3	mg/L	152	150	158	150	148	13	148	158	150			
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	13	< 5	< 5	2.5			
Bicarbonate as HCO3	mg/L	185	183	193	183	180	13	180	193	182.8			
Calcium	mg/L	44.4	45.3	54.4	44.8	45	13	43.8	54.4	46.92			
Chloride	mg/L	5	5	6	5	5	13	5	7	5.2			
Fluoride	mg/L	0.5	0.5	0.5	0.6	0.6	13	0.5	0.6	0.54			
Magnesium	mg/L	14.9	15.7	18.1	15.5	14	13	14	18.1	15.96			
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.05	< 0.1	0.05			
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.05	< 0.1	0.05			
Potassium	mg/L	7.5	7.6	8.5	9	8.5	13	6.9	10.7	8.12			
Sodium	mg/L	174	179	197	177	158	13	158	197	176.2			
Sulfate	mg/L	392	379	408	399	380	13	354	421	388.8			
Silica	mg/L	9.3	9.6	10.3	8.3	8.3	13	2	10.3	7.08			
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Arsenic	mg/L	0.002	< 0.001	0.001	0.001	< 0.001	13	< 0.001	< 0.02	0.002			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025			
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005			
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	13	< 0.03	< 0.03	0.015			
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005			
Manganese	mg/L	0.04	0.04	0.05	0.04	0.04	13	0.03	0.05	0.039			
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005			
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025			
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025			
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025			
Uranium	mg/L	0.003	0.003	0.005	0.004	0.003	13	0.003	0.005	0.0035			
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005			
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005			
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.001	0.0005			
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 3E-04	0.001	< 3E-04	< 3E-04	13	< 0.0003	0.0011	0.0003			
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	13	< 0.003	< 0.003	0.0015			
Arsenic	mg/L	0.004	0.006	0.005	< 0.002	0.003	13	< 0.001	0.006	0.0026			
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			

Powertech (USA) Inc. Hydro ID		689					Summary Statistics						
Month Sampled		Oct-08	Nov-08	Dec-08	Jan-09	Feb-09							
Date Collected		10/20/2008	11/18/2008	12/17/2008	1/20/2009	2/24/2009							
Time Collected		2:46 PM	2:02 PM	11:02 AM	1:05 PM	4:04 PM							
Lab ID		R08100295 -008	R08110211 -011	R08120255 -003	R09010301 -008	R09020293 -010							
Analyte	Units	Result	Result	Result	Result	Result	n	Minimum	Maximum	Mean**			
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.003	0.0006			
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.005	0.0025			
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025			
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	13	< 0.01	< 0.01	0.005			
Iron	mg/L	0.61	0.56	2.38	0.62	0.6	13	0.45	2.38	0.978			
Lead	mg/L	< 0.001	< 0.001	0.004	< 0.001	0.001	13	< 0.001	0.017	0.0022			
Manganese	mg/L	0.05	0.05	0.09	0.05	0.05	13	0.05	0.09	0.063			
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.0001	< 0.001	0.0004			
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	13	< 0.1	< 0.1	0.05			
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	13	< 0.05	< 0.05	0.025			
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	< 0.003	0.0008			
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13	< 0.005	< 0.02	0.003			
Strontium	mg/L	0.8	0.9	1	1	0.9	13	0.8	1	0.9			
Thallium	mg/L	0.002	< 0.001	< 0.001	< 0.001	< 0.001	13	< 0.001	0.002	0.0006			
Uranium	mg/L	0.004	0.003	0.006	0.004	0.003	13	0.003	0.0117	0.0049			
Zinc	mg/L	< 0.01	< 0.01	0.01	< 0.01	0.02	13	< 0.01	0.09	0.013			
Radionuclides - Dissolved													
Gross Alpha	pCi/L	40	37.9	54.6	52.8	23.9	13	23.9	64.3	39.01			
Gross Beta	pCi/L	12.9	15.3	23	17.6	12	13	9.2	23	14.5			
Lead 210	pCi/L	-0.3 (6.1)*	-1 (4.4)*	1.7 (4)*	-0.4 (4.2)*	0.5 (2.7)*	13	-31	6.3	-2.04			
Polonium 210	pCi/L	0.1 (1)*	0.2 (1)*	0 (1)*	-0.03 (0.62)*	0.44 (1)*	13	-0.4	1.1	0.24			
Radium 226	pCi/L	6.4	6.6	6.2	6.1	5.4	13	4.2	7.9	6.13			
Thorium 230	pCi/L	0.1 (0.2)*	0.2 (0.2)*	0 (0.2)*	0 (0.2)*	-0 (0.2)*	13	-0.1	0.2	0.05			
Gross Gamma	pCi/L	960	1100	0 (*)	1000	0 (*)	13	0	1100	400			
Radionuclides - Suspended													
Lead 210	pCi/L	-0.2 (6.8)*	-0.6 (9)*	1.4 (10.4)*	-6 (8)*	-2 (5.7)*	13	-9	1.4	-1.65			
Polonium 210	pCi/L	0.1 (1)*	-0.04 (*)	0.3 (1)*	0.03 (0.68)*	0.35 (0.56)*	13	-0.1	0.6	0.18			
Radium 226	pCi/L	-0.4 (0.5)*	-0.04 (0.4)*	0.4 (0.5)*	-0.4 (0.5)*	-0.2 (0.3)*	13	-0.4	2	0.2			
Thorium 230	pCi/L	-0.2 (0.2)*	-0.2 (0.2)*	0.1 (0.2)*	-0.2 (0.2)*	0.2 (0.3)*	13	-0.2	0.4	0.13			
Radionuclides - Total													
Radon 222	pCi/L	2410	2580	1130	1850	1810	13	1130	2580	1901			
Data Quality													
A/C Balance (± 5)	%	-0.72	2.1	4.66	-0.13	-2.77	13	-4.96	5.87	1.087			
Anions	meq/L	11.4	11.1	11.8	11.5	11.1	13	10.6	12	11.3			
Cations	meq/L	11.2	11.6	13	11.5	10.5	13	10.5	13	11.5			
Solids, Total Dissolved Calculated	mg/L	755	749	815	765	722	13	717	815	751.4			
TDS Balance (0.80 - 1.20)	dec. %	0.97	0.88	0.92	1.02	0.95	13	0.88	1.02	0.959			

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		690		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		6:10 PM				
Lab ID		R08070115 -005				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	14.12	1	14.12	14.12	14.12
Field pH	s.u.	9.36	1	9.36	9.36	9.36
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	2112	1	2112	2112	2112
Field Turbidity	NTU	13.2	1	13.2	13.2	13.2
Physical Properties						
Conductivity @ 25 C	umhos/cm	2000	1	2000	2000	2000
Oxidation-Reduction Potential	mV	220	1	220	220	220
pH	s.u.	9.27	1	9.27	9.27	9.27
Sodium Adsorption Ratio (SAR)	unitless	10	1	10	10	10
Solids, Total Dissolved TDS @ 180 C	mg/L	1400	1	1400	1400	1400
Major Ions						
Alkalinity, Total as CaCO3	mg/L	38	1	38	38	38
Carbonate as CO3	mg/L	7	1	7	7	7
Bicarbonate as HCO3	mg/L	32	1	32	32	32
Calcium	mg/L	42.1	1	42.1	42.1	42.1
Chloride	mg/L	30	1	30	30	30
Fluoride	mg/L	0.5	1	0.5	0.5	0.5
Magnesium	mg/L	25.4	1	25.4	25.4	25.4
Nitrogen, Ammonia as N	mg/L	0.3	1	0.3	0.3	0.3
Nitrogen, Nitrate as N	mg/L	0.2	1	0.2	0.2	0.2
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	14	1	14	14	14
Sodium	mg/L	342	1	342	342	342
Sulfate	mg/L	807	1	807	807	807
Silica	mg/L	< 0.5	1	< 0.5	< 0.5	0.25
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.7	1	0.7	0.7	0.7
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		690		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		6:10 PM				
Lab ID		R08070115 -005				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	0.7	1	0.7	0.7	0.7
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	1.48	1	1.48	1.48	1.48
Lead	mg/L	0.019	1	0.019	0.019	0.019
Manganese	mg/L	0.02	1	0.02	0.02	0.02
Mercury (First Run)	mg/L	< 2E-04	1	< 0.0002	< 0.0002	0.0001
Mercury (Second Run)	mg/L	< 1E-04	1	< 0.0001	< 0.0001	5E-05
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	2.6	1	2.6	2.6	2.6
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Zinc	mg/L	0.2	1	0.2	0.2	0.2
Radionuclides - Dissolved						
Gross Alpha	pCi/L	4.8 (5.4)*	1	4.8	4.8	4.8
Gross Beta	pCi/L	6.1	1	6.1	6.1	6.1
Lead 210	pCi/L	1.8 (7.9)*	1	1.8	1.8	1.8
Polonium 210	pCi/L	0.7 (1)*	1	0.7	0.7	0.7
Radium 226	pCi/L	0.2 (-5000)*	1	0.2	0.2	0.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	1100	1	1100	1100	1100
Radionuclides - Suspended						
Lead 210	pCi/L	-5.7 (21.4)*	1	-5.7	-5.7	-5.7
Polonium 210	pCi/L	0.1 (1)*	1	0.1	0.1	0.1
Radium 226	pCi/L	-0.3 (0.5)*	1	-0.3	-0.3	-0.3
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides - Total						
Radon 222	pCi/L	194	1	194	194	194
Data Quality						
A/C Balance (± 5)	%	2.66	1	2.66	2.66	2.66
Anions	meq/L	18.4	1	18.4	18.4	18.4
Cations	meq/L	19.4	1	19.4	19.4	19.4
Solids, Total Dissolved Calculated	mg/L	1280	1	1280	1280	1280
TDS Balance (0.80 - 1.20)	dec. %	1.09	1	1.09	1.09	1.09

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		691	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		7:17 PM				
Lab ID		R08070035-002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	12.93	1	12.93	12.93	12.93
Field pH	s.u.	12.67	1	12.67	12.67	12.67
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	5454	1	5454	5454	5454
Field Turbidity	NTU	1.1	1	1.1	1.1	1.1
Physical Properties						
Conductivity @ 25 C	umhos/cm	5360	1	5360	5360	5360
Oxidation-Reduction Potential	mV	24	1	24	24	24
pH	s.u.	12.4	1	12.4	12.4	12.4
Sodium Adsorption Ratio (SAR)	unitless	6.5	1	6.5	6.5	6.5
Solids, Total Dissolved TDS @ 180 C	mg/L	1500	1	1500	1500	1500
Major Ions						
Alkalinity, Total as CaCO3	mg/L	1160	1	1160	1160	1160
Carbonate as CO3	mg/L	19	1	19	19	19
Bicarbonate as HCO3	mg/L	< 5	1	< 5	< 5	2.5
Calcium	mg/L	251	1	251	251	251
Chloride	mg/L	113	1	113	113	113
Fluoride	mg/L	0.3	1	0.3	0.3	0.3
Magnesium	mg/L	< 0.5	1	< 0.5	< 0.5	0.25
Nitrogen, Ammonia as N	mg/L	1.2	1	1.2	1.2	1.2
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	16.7	1	16.7	16.7	16.7
Sodium	mg/L	373	1	373	373	373
Sulfate	mg/L	159	1	159	159	159
Silica	mg/L	0.8	1	0.8	0.8	0.8
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	0.5	1	0.5	0.5	0.5
Boron	mg/L	0.1	1	0.1	0.1	0.1
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	0.011	1	0.011	0.011	0.011
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	0.01	1	0.01	0.01	0.01
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.002	1	< 0.002	< 0.002	0.001
Barium	mg/L	0.5	1	0.5	0.5	0.5



Powertech (USA) Inc. Hydro ID		691	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		7:17 PM				
Lab ID		R08070035 -002				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.1	1	0.1	0.1	0.1
Lead	mg/L	0.035	1	0.035	0.035	0.035
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.0002	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.003	1	0.003	0.003	0.003
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	5.3	1	5.3	5.3	5.3
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	2.9 (9.9)*	1	2.9	2.9	2.9
Gross Beta	pCi/L	15.4	1	15.4	15.4	15.4
Lead 210	pCi/L	0.5 (7.9)*	1	0.5	0.5	0.5
Polonium 210	pCi/L	-0.1 (1)*	1	-0.1	-0.1	-0.1
Radium 226	pCi/L	1.2	1	1.2	1.2	1.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	0 (20)*	1	0	0	0
Radionuclides - Suspended						
Lead 210	pCi/L	2.2 (9.9)*	1	2.2	2.2	2.2
Polonium 210	pCi/L	-0.1 (1)*	1	-0.1	-0.1	-0.1
Radium 226	pCi/L	0.2 (0.3)*	1	0.2	0.2	0.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides - Total						
Radon 222	pCi/L	119	1	119	119	119
Data Quality						
A/C Balance (± 5)	%	-0.59	1	-0.59	-0.59	-0.59
Anions	meq/L	29.6	1	29.6	29.6	29.6
Cations	meq/L	29.3	1	29.3	29.3	29.3
Solids, Total Dissolved Calculated	mg/L	1610	1	1610	1610	1610
TDS Balance (0.80 - 1.20)	dec. %	0.95	1	0.95	0.95	0.95

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		692		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		1:39 PM				
Lab ID		R08070115 -001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	12.62	1	12.62	12.62	12.62
Field pH	s.u.	7.44	1	7.44	7.44	7.44
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	1264	1	1264	1264	1264
Field Turbidity	NTU	NM	0	NM	NM	NM
Physical Properties						
Conductivity @ 25 C	umhos/cm	1260	1	1260	1260	1260
Oxidation-Reduction Potential	mV	180	1	180	180	180
pH	s.u.	7.6	1	7.6	7.6	7.6
Sodium Adsorption Ratio (SAR)	unitless	2	1	2	2	2
Solids, Total Dissolved TDS @ 180 C	mg/L	940	1	940	940	940
Major Ions						
Alkalinity, Total as CaCO3	mg/L	186	1	186	186	186
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	227	1	227	227	227
Calcium	mg/L	131	1	131	131	131
Chloride	mg/L	8	1	8	8	8
Fluoride	mg/L	0.4	1	0.4	0.4	0.4
Magnesium	mg/L	46.5	1	46.5	46.5	46.5
Nitrogen, Ammonia as N	mg/L	0.2	1	0.2	0.2	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	14.7	1	14.7	14.7	14.7
Sodium	mg/L	105	1	105	105	105
Sulfate	mg/L	483	1	483	483	483
Silica	mg/L	4.8	1	4.8	4.8	4.8
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.002	1	0.002	0.002	0.002
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.1	1	0.1	0.1	0.1
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.14	1	0.14	0.14	0.14
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.002	1	0.002	0.002	0.002
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	0.0135	1	0.0135	0.0135	0.0135
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	0.002	1	0.002	0.002	0.002
Metals - Suspended						
Uranium	mg/L	0.0067	1	0.0067	0.0067	0.0067
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	0.005	1	0.005	0.005	0.005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		692		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/7/2008				
Time Collected		1:39 PM				
Lab ID		R08070115 -001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	0.01	1	0.01	0.01	0.01
Iron	mg/L	7.24	1	7.24	7.24	7.24
Lead	mg/L	0.006	1	0.006	0.006	0.006
Manganese	mg/L	0.24	1	0.24	0.24	0.24
Mercury	mg/L	< 0.0002	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	3.2	1	3.2	3.2	3.2
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	0.0202	1	0.0202	0.0202	0.0202
Zinc	mg/L	0.03	1	0.03	0.03	0.03
Radionuclides - Dissolved						
Gross Alpha	pCi/L	1450	1	1450	1450	1450
Gross Beta	pCi/L	447	1	447	447	447
Lead 210	pCi/L	22.5	1	22.5	22.5	22.5
Polonium 210	pCi/L	3.5	1	3.5	3.5	3.5
Radium 226	pCi/L	484	1	484	484	484
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	2400	1	2400	2400	2400
Radionuclides - Suspended						
Lead 210	pCi/L	125	1	125	125	125
Polonium 210	pCi/L	12	1	12	12	12
Radium 226	pCi/L	96.1	1	96.1	96.1	96.1
Thorium 230	pCi/L	2.6	1	2.6	2.6	2.6
Radionuclides - Total						
Radon 222	pCi/L	590000	1	590000	590000	590000
Data Quality						
A/C Balance (± 5)	%	4.52	1	4.52	4.52	4.52
Anions	meq/L	14	1	14	14	14
Cations	meq/L	15.4	1	15.4	15.4	15.4
Solids, Total Dissolved Calculated	mg/L	914	1	914	914	914
TDS Balance (0.80 - 1.20)	dec. %	1.02	1	1.02	1.02	1.02

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		693		Summary Statistics		
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		7:39 PM				
Lab ID		R08070035-001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	14.52	1	14.52	14.52	14.52
Field pH	s.u.	9.27	1	9.27	9.27	9.27
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	2083	1	2083	2083	2083
Field Turbidity	NTU	9.2	1	9.2	9.2	9.2
Physical Properties						
Conductivity @ 25 C	umhos/cm	1650	1	1650	1650	1650
Oxidation-Reduction Potential	mV	210	1	210	210	210
pH	s.u.	9.03	1	9.03	9.03	9.03
Sodium Adsorption Ratio (SAR)	unitless	9.1	1	9.1	9.1	9.1
Solids, Total Dissolved TDS @ 180 C	mg/L	1400	1	1400	1400	1400
Major Ions						
Alkalinity, Total as CaCO3	mg/L	68	1	68	68	68
Carbonate as CO3	mg/L	7	1	7	7	7
Bicarbonate as HCO3	mg/L	68	1	68	68	68
Calcium	mg/L	73.7	1	73.7	73.7	73.7
Chloride	mg/L	38	1	38	38	38
Fluoride	mg/L	0.6	1	0.6	0.6	0.6
Magnesium	mg/L	35.2	1	35.2	35.2	35.2
Nitrogen, Ammonia as N	mg/L	0.3	1	0.3	0.3	0.3
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	8.6	1	8.6	8.6	8.6
Sodium	mg/L	380	1	380	380	380
Sulfate	mg/L	886	1	886	886	886
Silica	mg/L	5	1	5	5	5
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	1	1	1	1	1
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.06	1	0.06	0.06	0.06
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		693	Summary Statistics			
Month Sampled		Jul-08				
Date Collected		7/1/2008				
Time Collected		7:39 PM				
Lab ID		R08070035 -001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	1.1	1	1.1	1.1	1.1
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	1.44	1	1.44	1.44	1.44
Lead	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Manganese	mg/L	0.01	1	0.01	0.01	0.01
Mercury (First Run)	mg/L	< 0.0001	1	< 0.0001	< 0.0001	5E-05
Mercury (Second Run)	mg/L	< 0.0002	1	< 0.0002	< 0.0002	0.0001
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	0.005	1	0.005	0.005	0.005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	2.1	1	2.1	2.1	2.1
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 0.0003	1	< 0.0003	< 0.0003	0.0002
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	2.8 (6)*	1	2.8	2.8	2.8
Gross Beta	pCi/L	2.7 (6.6)*	1	2.7	2.7	2.7
Lead 210	pCi/L	1.3 (7.9)*	1	1.3	1.3	1.3
Polonium 210	pCi/L	0.3 (1)*	1	0.3	0.3	0.3
Radium 226	pCi/L	0.6	1	0.6	0.6	0.6
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Gross Gamma	pCi/L	0 (20)*	1	0	0	0
Radionuclides - Suspended						
Lead 210	pCi/L	-1.3 (9.9)*	1	-1.3	-1.3	-1.3
Polonium 210	pCi/L	0 (1)*	1	0	0	0
Radium 226	pCi/L	0.2 (0.3)*	1	0.2	0.2	0.2
Thorium 230	pCi/L	0 (0.2)*	1	0	0	0
Radionuclides - Total						
Radon 222	pCi/L	424	1	424	424	424
Data Quality						
A/C Balance (± 5)	%	5.47	1	5.47	5.47	5.47
Anions	meq/L	20.9	1	20.9	20.9	20.9
Cations	meq/L	23.3	1	23.3	23.3	23.3
Solids, Total Dissolved Calculated	mg/L	1480	1	1480	1480	1480
TDS Balance (0.80 - 1.20)	dec. %	0.98	1	0.98	0.98	0.98

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		694							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/21/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		10:11 AM	12:24 PM	3:54 PM	3:16 PM	3:30 PM	3:45 PM	10:00 AM	8:25 AM
Lab ID		R08030315 -001	R08040250 -001	R08050321 -004	R08060427 -003	R08070244 -005	R08080332 -007	R08090356 -005	R08100295 -013
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3647	NM	3646	3647	3647	3647	3647	3647
Field Temperature	°C	13.02	12.9	13.18	14.15	13.91	13.47	13.8	13.4
Field pH	s.u.	7.5	7.45	7.47	7.5	7.31	NM	7.46	7.5
Field Dissolved Oxygen	mg/L	NM	0.09	0.28	NM	2.6	NM	NM	NM
Field Conductivity	umhos/cm	1245	1412	1366	1428	1436	1313	1440	1480
Field Turbidity	NTU	3.1	4	12.9	2.1	6.2	5.5	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1370	1370	1550	1400	1320	1570	1070	1450
Oxidation-Reduction Potential	mV	280	360	210	140	160	220	230	240
pH	s.u.	7.65	7.94	7.54	7.82	7.73	7.81	7.63	7.96
Sodium Adsorption Ratio (SAR)	unitless	3.7	3.8	3.8	3.9	4.1	3.9	3.9	3.9
Solids, Total Dissolved TDS @ 180 C	mg/L	970	1000	970	960	980	990	950	1100
Major Ions									
Alkalinity, Total as CaCO3	mg/L	204	202	192	206	206	202	202	202
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	249	246	234	251	251	246	246	246
Calcium	mg/L	91.6	97	103	103	92	103	101	98.8
Chloride	mg/L	11	9	9	9	9	9	9	9
Fluoride	mg/L	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.2
Magnesium	mg/L	35.4	37.6	38.6	37.1	36.9	36.9	37.3	36.5
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	12.3	13	13.1	13.6	17.6	13.4	12.8	12.9
Sodium	mg/L	165	176	180	180	185	182	179	177
Sulfate	mg/L	531	512	493	486	528	540	533	519
Silica	mg/L	8.1	8.4	4.7	4.6	2.1	4.1	< 0.5	9.3
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.002	0.002	0.002	0.001	0.002	< 0.001	0.002	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.14	0.15	0.16	0.16	0.1	0.16	0.13	0.16
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	5E-04	5E-04	6E-04	6E-04	7E-04	5E-04	5E-04	6E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.005	0.002	0.004	< 0.003	0.007	< 0.001	0.002	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		694							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/21/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		10:11 AM	12:24 PM	3:54 PM	3:16 PM	3:30 PM	3:45 PM	10:00 AM	8:25 AM
Lab ID		R08030315 -001	R08040250 -001	R08050321 -004	R08060427 -003	R08070244 -005	R08080332 -007	R08090356 -005	R08100295 -013
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.18	0.14	0.16	0.14	0.17	0.15	0.18	0.17
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.2	0.15	0.17	0.16	0.16	0.16	0.15	0.16
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.002	0.005	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	2.7	2.8	3	2.9	2.7	2.9	2.7	2.8
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	6E-04	6E-04	6E-04	6E-04	5E-04	5E-04	6E-04	6E-04
Zinc	mg/L	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	8.8	19.2	10.6	23.7	15.1	12.5	7.4	9.1
Gross Beta	pCi/L	10.3	15.7	12.5	15	11.1	10.7	9.3	11.1
Lead 210	pCi/L	-9.8 (1)*	0 (1)*	-2.3 (29)*	-0.1 (11.4)*	1.1 (9.2)*	0 (10.7)*	-2 (9)*	-1 (6.1)*
Polonium 210	pCi/L	1.8	1.4	0.6 (1)*	0 (1)*	0.4 (1)*	0 (1)*	0.2 (1)*	0.1 (1)*
Radium 226	pCi/L	1.6	4.2	1.9	2.2	2.3	1.8	1.7	1.4
Thorium 230	pCi/L	0.2	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (0)*	1200
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	0 (1)*	1.4 (8.8)*	4.8 (7.4)*	0.2 (21.4)*	-7 (17.8)*	-1 (9.2)*	-2 (6.8)*
Polonium 210	pCi/L	0.9 (1)*	0.2 (1)*	-0.1 (1)*	0 (1)*	0 (1)*	0 (1)*	0.17 (0)*	0 (1)*
Radium 226	pCi/L	1	-0.4 (0.5)*	-0.2 (0.5)*	-0.3 (0.4)*	-0.4 (0.6)*	-0.1 (0.6)*	-0.04 (0.4)*	-0.4 (0.5)*
Thorium 230	pCi/L	0.1 (0.2)*	0 (0.2)*	0.3	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	313	251	619	611	245	401	296	281
Data Quality									
A/C Balance (± 5)	%	-1.48	3.2	6.92	6.22	2.38	2.72	2.57	2.88
Anions	meq/L	15.4	15	14.4	14.5	15.4	15.6	15.4	15.1
Cations	meq/L	15	15.9	16.5	16.4	16.2	16.4	16.2	16
Solids, Total Dissolved Calculated	mg/L	990	988	965	965	999	1020	993	999
TDS Balance (0.80 - 1.20)	dec. %	0.98	1.01	1.01	1	0.98	0.97	0.96	1.06



Powertech (USA) Inc. Hydro ID		694				Summary Statistics			
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09				
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009				
Time Collected		9:00 AM	3:45 PM	5:00 PM	5:15 PM				
Lab ID		R08110211 -003	R08120255 -011	R09010301 -014	R09020293 -014				
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters									
Water Level Elevation	ft AMSL	3647	3648	3638	3648	11	3638.2	3647.9	3646.2
Field Temperature	°C	12.7	11.2	10.9	13.1	12	10.9	14.15	12.978
Field pH	s.u.	7.64	7.62	8.16	7.61	11	7.31	8.16	7.565
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	3	0.09	2.6	0.99
Field Conductivity	umhos/cm	1470	1490	1470	1420	12	1245	1490	1414
Field Turbidity	NTU	NM	NM	NM	NM	6	2.1	12.9	5.63
Physical Properties									
Conductivity @ 25 C	umhos/cm	1310	1320	1370	1340	12	1070	1570	1370
Oxidation-Reduction Potential	mV	280	270	270	150	12	140	360	234
pH	s.u.	7.93	7.7	7.55	7.55	12	7.54	7.96	7.734
Sodium Adsorption Ratio (SAR)	unitless	4	3.8	3.8	3.7	12	3.7	4.1	3.86
Solids, Total Dissolved TDS @ 180 C	mg/L	980	960	960	970	12	950	1100	980
Major Ions									
Alkalinity, Total as CaCO3	mg/L	182	204	208	206	12	182	208	201.3
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	222	249	254	251	12	222	254	245.4
Calcium	mg/L	101	96.1	86.6	99	12	86.6	103	97.7
Chloride	mg/L	9	9	9	9	12	9	11	9.2
Fluoride	mg/L	0.3	0.3	0.4	0.4	12	0.2	0.4	0.33
Magnesium	mg/L	36.2	36	32.8	35.5	12	32.8	38.6	36.4
Nitrogen, Ammonia as N	mg/L	0.2	0.3	0.2	0.2	12	0.2	0.3	0.22
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05
Potassium	mg/L	13.3	12.9	12.3	13.6	12	12.3	17.6	13.4
Sodium	mg/L	184	172	162	171	12	162	185	176.1
Sulfate	mg/L	484	507	508	518	12	484	540	513
Silica	mg/L	9.3	9.5	7.6	8.7	12	< 0.5	9.5	6.39
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05
Arsenic	mg/L	0.001	< 0.001	0.001	< 0.001	12	< 0.001	0.002	0.0014
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	12	< 0.03	0.05	0.018
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005
Manganese	mg/L	0.15	0.16	0.15	0.15	12	0.1	0.16	0.148
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025
Uranium	mg/L	6E-04	5E-04	6E-04	5E-04	12	0.0005	0.0007	0.0006
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 9E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0009	0.0002
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015
Arsenic	mg/L	0.002	0.002	0.002	0.001	12	< 0.001	0.007	0.0026
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05

Powertech (USA) Inc. Hydro ID		694				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		9:00 AM	3:45 PM	5:00 PM	5:15 PM								
Lab ID		R08110211 -003	R08120255 -011	R09010301 -014	R09020293 -014								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.003	0.0006				
Boron	mg/L	< 0.1	0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.06				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.19	0.19	0.15	0.11	12	0.11	0.19	0.161				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.15	0.15	0.15	0.17	12	0.15	0.2	0.16				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.005	0.0009				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	2.6	2.7	2.7	2.7	12	2.6	3	2.8				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	5E-04	5E-04	6E-04	5E-04	12	0.0005	0.0006	0.0006				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	0.02	0.007				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	9.2	9.3	25.9	8.3	12	7.4	25.9	13.26				
Gross Beta	pCi/L	5.9	7.7	16.8	10.9	12	5.9	16.8	11.42				
Lead 210	pCi/L	-0.1 (4.4)*	2.2 (4)*	-0.9 (4.2)*	1.3 (2.7)*	12	-9.8	2.2	-0.97				
Polonium 210	pCi/L	0 (1)*	0 (1)*	0.05 (0.58)*	-0.03 (0.52)*	12	-0.031	1.8	0.38				
Radium 226	pCi/L	1.7	1.5	1.7	2.2	12	1.4	4.2	2.02				
Thorium 230	pCi/L	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0.05 (0.1)*	12	0	0.2	0.05				
Gross Gamma	pCi/L	0 (20)*	850	1000	1600	12	0	1600	390				
Radionuclides - Suspended													
Lead 210	pCi/L	-4 (9)*	1.7 (10.4)*	-1 (8)*	-0.2 (5.7)*	12	-7	4.8	-0.59				
Polonium 210	pCi/L	-0.04 (1)*	0.4 (1)*	0.06 (0.59)*	0.31 (0.5)*	12	-0.1	0.9	0.16				
Radium 226	pCi/L	-0.4 (0.4)*	-0.3 (0.5)*	-0.2 (0.4)*	-0.1 (0.3)*	12	-0.4	1	-0.2				
Thorium 230	pCi/L	0 (0.2)*	0.1 (0.2)*	-0.1 (0.2)*	-0.09 (0.4)*	12	-0.1	0.3	0.03				
Radionuclides - Total													
Radon 222	pCi/L	331	215	270	235	12	215	619	339				
Data Quality													
A/C Balance (± 5)	%	7.92	2.21	-2.05	1.67	12	-2.05	7.92	2.93				
Anions	meq/L	14	14.9	15	15.2	12	14	15.6	14.99				
Cations	meq/L	16.4	15.6	14.4	15.7	12	14.4	16.5	15.89				
Solids, Total Dissolved Calculated	mg/L	962	981	956	994	12	956	1020	984				
TDS Balance (0.80 - 1.20)	dec. %	1.01	0.98	1	0.98	12	0.96	1.06	0.995				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		695							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/31/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		4:31 PM	12:46 PM	2:45 PM	5:30 PM	1:42 PM	2:20 PM	11:00 AM	9:10 AM
Lab ID		R08040002 -003	R08040287 -001	R08050321 -003	R08060427 -004	R08070244 -003	R08080332 -005	R08090356 -007	R08100295 -012
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3631	3628	3627	3628	3629	3629	3629	3628
Field Temperature	°C	11.28	NM	11.89	11.87	NM	12.23	13.3	12.3
Field pH	s.u.	8	NM	7.86	7.53	NM	NM	7.85	7.83
Field Dissolved Oxygen	mg/L	0.14	NM	0.21	0.19	NM	NM	NM	NM
Field Conductivity	umhos/cm	1249	NM	1375	1405	NM	1297	1450	1440
Field Turbidity	NTU	-0.1	NM	-0.1	-0.1	NM	5.5	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1390	1370	1560	1380	1450	1650	2060	1440
Oxidation-Reduction Potential	mV	230	290	190	120	150	210	-97.9	230
pH	s.u.	8.16	8.08	7.91	8.14	7.98	8.08	6.92	8.07
Sodium Adsorption Ratio (SAR)	unitless	7.3	7.8	7.6	7.5	8.1	7.8	2	7.5
Solids, Total Dissolved TDS @ 180 C	mg/L	870	910	920	920	950	900	2300	1100
Major Ions									
Alkalinity, Total as CaCO3	mg/L	176	174	180	174	174	172	196	172
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	215	212	219	212	212	210	239	210
Calcium	mg/L	48	50.1	52.1	52.5	48	52.7	347	51.4
Chloride	mg/L	14	11	11	11	12	12	15	13
Fluoride	mg/L	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4
Magnesium	mg/L	17.8	17.6	19.4	18.8	17.8	18.9	113	18.5
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.2	0.1	0.2	0.1	0.5	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	0.06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	8.7	8.4	8.8	8.7	12.4	8.6	18.6	8.5
Sodium	mg/L	234	251	254	250	258	258	171	246
Sulfate	mg/L	476	504	530	442	534	466	1560	478
Silica	mg/L	7.4	3.9	4.4	4.4	1.9	4	< 0.5	8.8
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.07	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	1.26	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.07	0.08	0.09	0.08	0.08	0.08	0.84	0.08
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.003	0.003	0.003	0.003	0.003	0.003	0.006	0.003
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 8E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.002	0.001	0.002	< 0.001	0.004	< 0.001	0.016	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		695							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/31/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		4:31 PM	12:46 PM	2:45 PM	5:30 PM	1:42 PM	2:20 PM	11:00 AM	9:10 AM
Lab ID		R08040002 -003	R08040287 -001	R08050321 -003	R08060427 -004	R08070244 -003	R08080332 -005	R08090356 -007	R08100295 -012
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.005	< 0.001	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.2	< 0.1
Cadmium	mg/L	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.11	0.14	0.12	0.12	0.16	0.16	17.9	0.16
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.08	0.08	0.09	0.08	0.09	0.08	1.18	0.08
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.002	0.004	< 0.001	0.002	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	0.9	1	1	1	1	0.9	6.5	0.9
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.003	0.003	0.003	0.003	0.003	0.003	0.009	0.003
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	52.2	29.4	25.6	39.7	28.2	21.6	44	27.8
Gross Beta	pCi/L	16.1	6	8	11	7.7	8.5	16	11.6
Lead 210	pCi/L	-12.4 (1)*	-1.8 (1)*	3.1 (30)*	0.7 (11.4)*	-2 (9.2)*	-1 (10.7)*	0.1 (9)*	-0.4 (6.1)*
Polonium 210	pCi/L	1.1	1.6	-0.3 (1)*	0.1 (1)*	-0.1 (1)*	-0.2 (1)*	0.2 (1)*	0 (1)*
Radium 226	pCi/L	6.3	5	3.7	5.2	4.7	3.9	10.4	4
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0.1 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	140	0 (20)*	0 (20)*	450	960	1100
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	-2.1 (1)*	-0.7 (8.8)*	2.9 (7.4)*	-5 (21.4)*	-6 (17.8)*	-2 (9.2)*	-1 (6.8)*
Polonium 210	pCi/L	0.6	0.4 (1)*	-0.2 (1)*	0 (1)*	0.2 (1)*	0.1 (1)*	0.07 (1)*	0 (1)*
Radium 226	pCi/L	0.6	-0.4 (0.5)*	-0.2 (0.5)*	-0.1 (0.5)*	-0.4 (0.6)*	-0.01 (0.5)*	0.9	-0.3 (0.5)*
Thorium 230	pCi/L	0.1 (0.2)*	0.3	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.5	0 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	1400	1400	2090	2120	1490	1950	357	1860
Data Quality									
A/C Balance (± 5)	%	1.52	2.68	1.68	7.98	1.44	7.38	-3.03	4.33
Anions	meq/L	13.9	14.3	15	13	15	13.5	36.8	13.8
Cations	meq/L	14.3	15.1	15.5	15.3	15.4	15.6	34.6	15
Solids, Total Dissolved Calculated	mg/L	925	957	996	901	991	931	2340	942
TDS Balance (0.80 - 1.20)	dec. %	0.94	0.96	0.92	1.02	0.96	0.97	0.97	1.15



Powertech (USA) Inc. Hydro ID		695				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		1:25 PM	3:10 PM	12:15 PM	4:56 PM								
Lab ID		R08110211 -009	R08120255 -010	R09010301 -005	R09020293 -013								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3630	3626	3629	3629	11	3626.4	3631	3628.7				
Field Temperature	°C	15	10.4	10.8	11.9	10	10.4	15	12.1				
Field pH	s.u.	7.85	7.96	7.9	7.99	9	7.53	8	7.9				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	3	0.14	0.21	0.18				
Field Conductivity	umhos/cm	1370	1480	1450	1400	10	1249	1480	1392				
Field Turbidity	NTU	NM	NM	NM	NM	4	-0.1	5.5	1.3				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1290	1320	1350	1350	12	1290	2060	1468				
Oxidation-Reduction Potential	mV	280	250	260	140	12	-97.9	290	188				
pH	s.u.	8.18	7.93	7.81	7.86	12	6.92	8.18	7.927				
Sodium Adsorption Ratio (SAR)	unitless	7.6	7.5	7.6	7	12	2	8.1	7.11				
Solids, Total Dissolved TDS @ 180 C	mg/L	940	890	910	910	12	870	2300	1040				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	172	172	174	178	12	172	196	176.2				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	210	210	212	217	12	210	239	214.8				
Calcium	mg/L	52.7	50.9	49.8	50	12	48	347	75.4				
Chloride	mg/L	13	12	12	12	12	11	15	12.3				
Fluoride	mg/L	0.4	0.4	0.6	0.5	12	0.4	0.6	0.45				
Magnesium	mg/L	19	18.4	18.3	17.6	12	17.6	113	26.3				
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.2	0.2	12	0.1	0.5	0.21				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	8.7	8.6	9.5	9.8	12	8.4	18.6	9.94				
Sodium	mg/L	253	247	247	225	12	171	258	241.2				
Sulfate	mg/L	481	483	500	494	12	442	1560	579				
Silica	mg/L	8.9	8.8	7.9	7.6	12	< 0.5	8.9	5.69				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.06				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	12	< 0.03	1.26	0.123				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.08	0.08	0.08	0.08	12	0.07	0.84	0.143				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.003	0.003	0.003	0.003	12	0.0026	0.0059	0.0031				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	0.02	0.006				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0009	0.0002				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	0.001	< 0.001	0.001	< 0.001	12	< 0.001	0.016	0.0025				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		695				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		1:25 PM	3:10 PM	12:15 PM	4:56 PM								
Lab ID		R08110211 -009	R08120255 -010	R09010301 -005	R09020293 -013								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.005	0.0008				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.07				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.001	< 0.005	0.0023				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.16	0.17	0.13	0.23	12	0.11	17.9	1.63				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.08	0.07	0.08	0.08	12	0.07	1.18	0.173				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.004	0.001				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	0.9	0.9	1	0.9	12	0.9	6.5	1.41				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.003	0.003	0.003	0.003	12	0.0026	0.0085	0.0033				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	0.01	12	< 0.01	< 0.01	0.006				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	19.2	26.8	35.8	18.7	12	18.7	52.2	30.75				
Gross Beta	pCi/L	9.7	13	12.1	12.7	12	6	16.1	11.03				
Lead 210	pCi/L	0.3 (4.4)*	3.4 (8)*	1.5 (4.2)*	0.9 (2.7)*	12	-12.4	3.4	-0.63				
Polonium 210	pCi/L	0 (1)*	0 (1)*	0.05 (0.74)*	0.16 (0.74)*	12	-0.3	1.6	0.22				
Radium 226	pCi/L	4.8	4.8	4.5	4.7	12	3.7	10.4	5.17				
Thorium 230	pCi/L	0.2 (0.2)*	0.1 (0.2)*	0 (0.2)*	-0.02 (0.2)*	12	-0.02	0.2	0.04				
Gross Gamma	pCi/L	1100	850	0 (1)*	1200	12	0	1200	480				
Radionuclides - Suspended													
Lead 210	pCi/L	-0.9 (9)*	5.9 (10.4)*	6.6 (8.5)*	0.1 (5.7)*	12	-6	6.6	-0.18				
Polonium 210	pCi/L	0.06 (1)*	0.2 (1)*	0.13 (0.51)*	0.25 (0.83)*	12	-0.2	0.6	0.15				
Radium 226	pCi/L	-0.2 (0.4)*	-0.4 (0.5)*	-0.1 (0.5)*	-0.1 (0.3)*	12	-0.4	0.9	-0.06				
Thorium 230	pCi/L	0.1 (0.2)*	-0.1 (0.2)*	0 (0.2)*	0.02 (0.3)*	12	-0.1	0.5	0.08				
Radionuclides - Total													
Radon 222	pCi/L	2020	1880	1840	1600	12	357	2120	1667				
Data Quality													
A/C Balance (± 5)	%	5.57	4.06	2.54	-0.61	12	-3.03	7.98	2.962				
Anions	meq/L	13.8	13.8	14.3	14.2	12	13	36.8	15.95				
Cations	meq/L	15.4	15	15	14	12	14	34.6	16.68				
Solids, Total Dissolved Calculated	mg/L	954	947	962	937	12	901	2340	1065				
TDS Balance (0.80 - 1.20)	dec. %	0.98	0.94	0.95	0.97	12	0.92	1.15	0.978				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		696							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/31/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		1:41 PM	4:58 PM	11:55 AM	3:08 PM	3:10 PM	3:10 PM	9:35 AM	8:45 AM
Lab ID		R08040002 -001	R08040287 -007	R08050321 -001	R08060427 -002	R08070244 -004	R08080332 -006	R08090356 -006	R08100295 -014
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	NM	3638	3637
Field Temperature	°C	11.73	11.72	10.86	12.06	13.2	12.81	13.1	12
Field pH	s.u.	8.81	8.57	8.45	7.89	7.65	NM	8.09	8.09
Field Dissolved Oxygen	mg/L	0.28	0.3	0.2	0.19	NM	NM	NM	NM
Field Conductivity	umhos/cm	1316	1433	1409	1438	1460	1318	1470	1480
Field Turbidity	NTU	-0.1	3.5	0.1	0	5.3	4.3	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1440	1410	1420	1390	1350	1690	1100	1490
Oxidation-Reduction Potential	mV	170	200	120	99	100	210	190	200
pH	s.u.	8.71	8.47	8.35	8.29	8.19	8.29	8.15	8.26
Sodium Adsorption Ratio (SAR)	unitless	11	12	12	12	12	11	11	11
Solids, Total Dissolved TDS @ 180 C	mg/L	880	930	930	920	930	930	920	950
Major Ions									
Alkalinity, Total as CaCO3	mg/L	184	182	182	174	180	182	180	180
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	215	222	222	212	219	222	219	219
Calcium	mg/L	28	29.9	31	31.6	28.8	32.3	30.6	30.3
Chloride	mg/L	15	12	12	12	13	13	12	13
Fluoride	mg/L	0.3	0.3	0.4	0.4	0.5	0.4	0.4	0.3
Magnesium	mg/L	10	10.4	10.9	11.1	10.2	11	10.6	10.6
Nitrogen, Ammonia as N	mg/L	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	9.7	9.3	9.2	9.4	13.4	9.3	8.6	8.9
Sodium	mg/L	270	293	294	295	291	297	280	282
Sulfate	mg/L	475	475	505	456	526	495	506	493
Silica	mg/L	8.1	4.4	4.7	5	2.1	4.5	< 0.5	9.8
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	0.07	0.09	0.1	0.08	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.05	0.06	0.07	0.07	0.06	0.07	0.05	0.06
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.003	0.002	0.002	< 0.002	0.003	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		696							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/31/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		1:41 PM	4:58 PM	11:55 AM	3:08 PM	3:10 PM	3:10 PM	9:35 AM	8:45 AM
Lab ID		R08040002 -001	R08040287 -007	R08050321 -001	R08060427 -002	R08070244 -004	R08080332 -006	R08090356 -006	R08100295 -014
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.04	0.08	0.1	0.67	0.14	0.1	0.14	0.13
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.06
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	3.9	5.2	14.3	23.9	4	7.1	5.9	9.8
Gross Beta	pCi/L	-2.1 (4.2)*	10.7	9	9.9	3.7 (3.9)*	6.7	8.2	9.1
Lead 210	pCi/L	-11.2 (1)*	-4.9 (1)*	-2.7 (29.8)*	-5.3 (11.4)*	-3 (9.2)*	3.4 (10.7)*	-1 (9)*	-1 (6.1)*
Polonium 210	pCi/L	0.6 (1)*	0.9 (1)*	-0.2 (1)*	0.2 (1)*	-0.1 (1)*	-0.3 (1)*	0 (1)*	0.1 (1)*
Radium 226	pCi/L	1	0.5	1.8	3.3	0.4	1.3	1.5	0.8
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (20)*	1000	1100
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	0 (1)*	2.1 (8.8)*	5.6 (7.4)*	1.1 (21.4)*	0.2 (17.8)*	-0.9 (9.2)*	-0.7 (6.8)*
Polonium 210	pCi/L	0.5	0.6 (1)*	0 (1)*	0.5 (1)*	0 (1)*	0.1 (1)*	-0.06 (1)*	0 (1)*
Radium 226	pCi/L	0.6	-0.2 (0.4)*	-0.1 (0.5)*	-0.4 (0.5)*	-0.4 (0.6)*	-0.1 (0.5)*	-0.2 (0.4)*	-0.3 (0.5)*
Thorium 230	pCi/L	0.2 (0.2)*	0.2 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	-0.1 (0.2)*	-0.3 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	190	185	497	517	228	343	214	260
Data Quality									
A/C Balance (± 5)	%	0.93	5.13	3.21	7.89	1.3	4.56	1.13	2.18
Anions	meq/L	14	13.9	14.5	13.3	14.9	14.3	14.5	14.3
Cations	meq/L	14.3	15.4	15.5	15.6	15.3	15.7	14.8	14.9
Solids, Total Dissolved Calculated	mg/L	941	951	984	934	996	978	957	973
TDS Balance (0.80 - 1.20)	dec. %	0.94	0.98	0.94	0.99	0.93	0.96	0.96	0.97



Powertech (USA) Inc. Hydro ID		696				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		8:45 AM	4:05 PM	4:55 PM	5:31 PM								
Lab ID		R08110211 -002	R08120255 -012	R09010301 -013	R09020293 -015								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3638	3626	3647	3637	6	3625.9	3647.1	3637.1				
Field Temperature	°C	10.4	9.9	12.7	11.3	12	9.9	13.2	11.82				
Field pH	s.u.	8.11	8.22	7.51	8.24	11	7.51	8.81	8.148				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	4	0.19	0.3	0.24				
Field Conductivity	umhos/cm	1460	1500	1450	1450	12	1316	1500	1430				
Field Turbidity	NTU	NM	NM	NM	NM	6	-0.1	5.3	2.18				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1340	1340	1400	1290	12	1100	1690	1388				
Oxidation-Reduction Potential	mV	280	260	240	130	12	99	280	183				
pH	s.u.	8.03	8.14	8.05	8.08	12	8.03	8.71	8.251				
Sodium Adsorption Ratio (SAR)	unitless	12	11	11	11	12	11	12	11.4				
Solids, Total Dissolved TDS @ 180 C	mg/L	790	900	920	920	12	790	950	910				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	178	180	178	182	12	174	184	180.2				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	217	219	217	222	12	212	222	218.8				
Calcium	mg/L	30.9	29.8	27	31	12	27	32.3	30.1				
Chloride	mg/L	13	13	12	12	12	12	15	12.7				
Fluoride	mg/L	0.4	0.3	0.5	0.4	12	0.3	0.5	0.38				
Magnesium	mg/L	10.6	10.4	9.6	10.7	12	9.6	11.1	10.51				
Nitrogen, Ammonia as N	mg/L	0.4	0.4	0.4	0.4	12	0.3	0.4	0.39				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	9.1	9	8.8	10.1	12	8.6	13.4	9.57				
Sodium	mg/L	293	280	253	273	12	253	297	283.4				
Sulfate	mg/L	476	459	483	470	12	456	526	484.9				
Silica	mg/L	9.9	9.9	7.5	8.8	12	< 0.5	9.9	6.25				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.002	0.0007				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	12	< 0.03	0.1	0.04				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.06	0.07	0.06	0.06	12	0.05	0.07	0.062				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0003	0.0002				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0009	0.0002				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.003	0.0012				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		696				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		8:45 AM	4:05 PM	4:55 PM	5:31 PM								
Lab ID		R08110211 -002	R08120255 -012	R09010301 -013	R09020293 -015								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.003	0.0006				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.14	0.16	0.14	0.1	12	0.04	0.67	0.162				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.06	0.06	0.06	0.07	12	0.05	0.07	0.063				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.002	0.0006				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	0.7	0.7	0.8	0.8	12	0.7	0.8	0.78				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0003	0.0002				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	6.9	8.2	20.2	4.3 (4.8)*	12	3.9	23.9	9.48				
Gross Beta	pCi/L	9	9.5	6.4	2 (5.7)*	12	-2.1	10.7	6.84				
Lead 210	pCi/L	0 (4.4)*	3.2 (4)*	0.4 (4.2)*	-0.3 (2.7)*	12	-11.2	3.4	-1.87				
Polonium 210	pCi/L	0.2 (1)*	0 (1)*	0 (0.61)*	-0.09 (0.72)*	12	-0.3	0.9	0.11				
Radium 226	pCi/L	0.8	0.8	1	1.3	12	0.4	3.3	1.21				
Thorium 230	pCi/L	0.2 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0.2	12	0	0.2	0.05				
Gross Gamma	pCi/L	0 (20)*	840	940	1000	12	0	1100	410				
Radionuclides - Suspended													
Lead 210	pCi/L	-6 (9)*	0.5 (10.4)*	-4 (8)*	0.8 (5.7)*	12	-6	5.6	-0.11				
Polonium 210	pCi/L	-0.11 (1)*	0 (1)*	-0.04 (0.5)*	0.05 (0.8)*	12	-0.11	0.6	0.13				
Radium 226	pCi/L	-0.3 (0.4)*	-0.1 (0.5)*	-0.4 (0.5)*	-0.2 (0.3)*	12	-0.4	0.6	-0.18				
Thorium 230	pCi/L	0 (0.2)*	-0.2 (0.2)*	-0.1 (0.2)*	-0.04 (0.3)*	12	-0.3	0.2	-0.02				
Radionuclides - Total													
Radon 222	pCi/L	222	182	250	234	12	182	517	276.8				
Data Quality													
A/C Balance (± 5)	%	5.4	4.39	-2.22	2.91	12	-2.22	7.89	3.068				
Anions	meq/L	13.8	13.5	14	13.8	12	13.3	14.9	14.07				
Cations	meq/L	15.4	14.8	13.4	14.6	12	13.4	15.7	14.98				
Solids, Total Dissolved Calculated	mg/L	967	936	921	941	12	921	996	956.6				
TDS Balance (0.80 - 1.20)	dec. %	0.82	0.97	1	0.98	12	0.82	1	1				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		697							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		4:36 PM	4:02 PM	4:44 PM	6:20 PM	3:52 PM	5:10 PM	11:45 AM	9:45 AM
Lab ID		R08030315 -006	R08040287 -005	R08050321 -005	R08060427 -005	R08070244 -006	R08080332 -008	R08090356 -004	R08100295 -011
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3677	3677	3677	3678	3678	3678	3677	3677
Field Temperature	°C	13.78	13.91	13.9	13.87	14.43	13.91	14.6	13.9
Field pH	s.u.	7.8	7.8	7.77	7.56	7.72	7.44	7.76	7.75
Field Dissolved Oxygen	mg/L	0.2	0.15	0.29	0.16	NM	0.29	NM	NM
Field Conductivity	umhos/cm	1131	1258	1239	1267	1286	1164	1300	1310
Field Turbidity	NTU	-0.2	3.2	0.1	3.9	4.9	3.9	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1250	1230	1380	1230	1290	1330	951	1280
Oxidation-Reduction Potential	mV	200	320	200	140	160	210	160	210
pH	s.u.	7.83	8.07	7.9	8.25	7.93	8.03	7.83	8.15
Sodium Adsorption Ratio (SAR)	unitless	6.2	6.6	6.5	6.6	6.9	6.7	6.4	6.4
Solids, Total Dissolved TDS @ 180 C	mg/L	800	810	790	810	830	840	810	1000
Major Ions									
Alkalinity, Total as CaCO3	mg/L	166	166	168	168	166	172	168	166
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	202	202	205	205	202	210	205	202
Calcium	mg/L	49.2	50.6	52.8	53.4	48.7	53.5	53.1	52.9
Chloride	mg/L	10	8	8	8	8	8	8	8
Fluoride	mg/L	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5
Magnesium	mg/L	16.9	17.3	18	17.7	17.5	17.5	17.5	17.3
Nitrogen, Ammonia as N	mg/L	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.05	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	8.1	8.5	8.5	8.8	11.8	8.6	8.2	8.4
Sodium	mg/L	197	215	216	218	221	219	210	210
Sulfate	mg/L	452	430	456	409	470	452	435	560
Silica	mg/L	7.4	4	4.6	4.6	2	4.1	8.6	9.3
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.001	0.001	0.002	0.002	0.002	< 0.001	0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.05	0.05	0.06	0.06	0.05	0.06	0.05	0.06
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	< 3E-04	7E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	6E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	< 0.003	0.002	0.002	0.003	0.004	< 0.001	0.001	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		697							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/21/2008	6/24/2008	7/14/2008	8/20/2008	9/23/2008	10/21/2008
Time Collected		4:36 PM	4:02 PM	4:44 PM	6:20 PM	3:52 PM	5:10 PM	11:45 AM	9:45 AM
Lab ID		R08030315 -006	R08040287 -005	R08050321 -005	R08060427 -005	R08070244 -006	R08080332 -008	R08090356 -004	R08100295 -011
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.06	0.05	0.04	0.08	0.06	0.07	0.05	0.06
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.06
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	0.001	< 0.001	< 0.001	0.005	0.003	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	1.1	1.3	1.2	1.2	1.1	1.2	1.1	1.1
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	3E-04	< 3E-04	< 3E-04	< 3E-04
Zinc	mg/L	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	6.1	8.4	4.1	11.9	6.9	5.3	6.3	7.3
Gross Beta	pCi/L	6.8	8.4	5.4	8.1	4.6	8.6	5.7	3.6 (3.6)*
Lead 210	pCi/L	-23 (1)*	-0.7 (1)*	-4.3 (28.2)*	0.5 (11.4)*	-2 (9.2)*	-2 (10.7)*	-2 (9)*	-2 (6.1)*
Polonium 210	pCi/L	1.1	0 (1)*	0 (1)*	-0.1 (1)*	-0.4 (1)*	0.4 (1)*	-0.5 (1)*	0.1 (1)*
Radium 226	pCi/L	1.5	1.7	1.1	0.8	0.9	1.2	1	0.6
Thorium 230	pCi/L	0.4	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	0 (20)*	0 (20)*	850	0 (0)*	1700
Radionuclides - Suspended									
Lead 210	pCi/L	-2.8 (1)*	0 (1)*	0 (8.8)*	2.9 (7.4)*	3.6 (21.4)*	-10 (17.8)*	-1 (7.8)*	-2 (6.8)*
Polonium 210	pCi/L	0.9 (1)*	0 (1)*	1.2	0 (1)*	0.4 (1)*	-0.2 (1)*	0.03 (0)*	0.1 (1)*
Radium 226	pCi/L	0.6	-0.1 (0.3)*	3.8	-0.4 (0.4)*	-0.1 (0.6)*	-0.4 (0.5)*	0.2 (0.4)*	0.05 (0.5)*
Thorium 230	pCi/L	0.1 (0.2)*	0.1 (0.2)*	0.3	0.2	0 (0.2)*	0 (0.2)*	-0.1 (0.2)*	-0.1 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	323	284	570	413	295	367	313	319
Data Quality									
A/C Balance (± 5)	%	-1.53	3.91	2.35	6.52	1.61	2.84	2.88	-6.31
Anions	meq/L	13	12.5	13.1	12.1	13.4	13.1	12.7	15.2
Cations	meq/L	12.6	13.5	13.7	13.8	13.8	13.9	13.4	13.4
Solids, Total Dissolved Calculated	mg/L	853	840	873	829	884	874	857	983
TDS Balance (0.80 - 1.20)	dec. %	0.93	0.97	0.91	0.97	0.94	0.96	0.95	1.03



Powertech (USA) Inc. Hydro ID		697				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		1:35 PM	2:45 PM	12:35 PM	4:45 PM								
Lab ID		R08110211-010	R08120255-009	R09010301-006	R09020293-012								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3677	3676	3705	3677	12	3676.1	3704.7	3679.6				
Field Temperature	°C	15.5	12.4	13.3	13.5	12	12.4	15.5	13.92				
Field pH	s.u.	7.74	7.97	7.81	8	12	7.44	8	7.8				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	5	0.15	0.29	0.218				
Field Conductivity	umhos/cm	1280	1340	1300	1280	12	1131	1340	1263				
Field Turbidity	NTU	NM	NM	NM	NM	6	-0.2	4.9	2.63				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1180	1190	1220	1210	12	951	1380	1228				
Oxidation-Reduction Potential	mV	280	250	270	140	12	140	320	212				
pH	s.u.	8.24	7.98	7.73	7.9	12	7.73	8.25	7.987				
Sodium Adsorption Ratio (SAR)	unitless	6.6	6.4	6.5	6.2	12	6.2	6.9	6.5				
Solids, Total Dissolved TDS @ 180 C	mg/L	820	810	820	820	12	790	1000	800				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	164	166	168	166	12	164	172	167				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	200	202	205	202	12	200	210	204				
Calcium	mg/L	54.5	53.4	49.7	52	12	48.7	54.5	51.98				
Chloride	mg/L	9	8	8	8	12	8	10	8				
Fluoride	mg/L	0.5	0.5	0.7	0.6	12	0.5	0.7	0.55				
Magnesium	mg/L	17.7	17.4	16.4	16.8	12	16.4	18	17.3				
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.2	0.2	12	0.1	0.2	0.17				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	8.5	8.4	8.6	9.2	12	8.1	11.8	8.8				
Sodium	mg/L	219	210	206	201	12	197	221	211.8				
Sulfate	mg/L	430	442	444	436	12	409	560	451				
Silica	mg/L	9.3	9.5	7.9	8	12	2	9.5	6.61				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.001	< 0.001	0.001	< 0.001	12	< 0.001	0.002	0.0011				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.04	< 0.03	< 0.03	< 0.03	12	< 0.03	0.04	0.033				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.05	0.06	0.05	0.05	12	0.05	0.06	0.054				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0003	0.0002				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0009	0.0003				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	0.001	0.001	0.001	0.001	12	< 0.001	0.004	0.0017				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.06				

Powertech (USA) Inc. Hydro ID		697				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		1:35 PM	2:45 PM	12:35 PM	4:45 PM								
Lab ID		R08110211 -010	R08120255 -009	R09010301 -006	R09020293 -012								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.003	0.0006				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.04	0.34	< 0.04	0.09	12	< 0.04	0.34	0.08				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.05	0.05	0.05	0.05	12	0.05	0.06	0.055				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.005	0.0011				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	1.1	1.1	1.2	1.1	12	1.1	1.3	1.15				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	< 0.0003	0.0002				
Zinc	mg/L	< 0.01	0.02	< 0.01	0.03	12	< 0.01	0.03	0.009				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	12.7	7.7	21.7	18.2	12	4.1	21.7	9.72				
Gross Beta	pCi/L	11.4	7.1	12.5	11	12	3.6	12.5	7.77				
Lead 210	pCi/L	-0.8 (4.4)*	1.6 (4)*	0.6 (4.2)*	1 (2.7)*	12	-23	1.6	-2.76				
Polonium 210	pCi/L	0 (1)*	0.2 (1)*	-0.03 (0.54)*	0.03 (0.62)*	12	-0.5	1.1	0.07				
Radium 226	pCi/L	1.7	1.2	0.9	5.6	12	0.6	5.6	1.52				
Thorium 230	pCi/L	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	-0.03 (0.1)*	12	-0.03	0.4	0.05				
Gross Gamma	pCi/L	1100	820	0 (1)*	1100	12	0	1700	460				
Radionuclides - Suspended													
Lead 210	pCi/L	-0.6 (9)*	2.8 (10.4)*	2.9 (8.5)*	-2 (5.7)*	12	-10	3.6	-0.52				
Polonium 210	pCi/L	-0 (1)*	0.2 (1)*	-0.01 (0.45)*	-0.02 (0.55)*	12	-0.2	1.2	0.22				
Radium 226	pCi/L	-0.4 (0.4)*	-0.07 (0.5)*	-0.2 (0.4)*	-0.2 (0.3)*	12	-0.4	3.8	0.23				
Thorium 230	pCi/L	0.1 (0.2)*	-0.2 (0.2)*	-0.2 (0.2)*	0.05 (0.3)*	12	-0.2	0.3	0.02				
Radionuclides - Total													
Radon 222	pCi/L	412	200	299	236	12	200	570	336				
Data Quality													
A/C Balance (± 5)	%	5.48	2.6	0.64	1.29	12	-6.31	6.52	1.857				
Anions	meq/L	12.5	12.8	12.9	12.6	12	12.1	15.2	12.99				
Cations	meq/L	14	13.5	13	13	12	12.6	14	13.5				
Solids, Total Dissolved Calculated	mg/L	863	866	856	845	12	829	983	868.6				
TDS Balance (0.80 - 1.20)	dec. %	0.95	0.93	0.96	0.98	12	0.91	1.03	0.957				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		698							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/28/2008	6/24/2008	7/14/2008	8/19/2008	9/22/2008	10/20/2008
Time Collected		2:04 PM	11:30 AM	12:35 PM	11:55 AM	6:43 PM	5:35 PM	1:05 PM	1:52 PM
Lab ID		R08030315 -002	R08040287 -004	R08050406 -001	R08060427 -001	R08070244 -010	R08080301 -003	R08090314 -003	R08100295 -004
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3680	3680	3679	3680	3680	3680	3680	3680
Field Temperature	°C	11.38	11.61	11.52	11.73	11.69	11.91	11.56	12.4
Field pH	s.u.	6.83	6.87	6.76	6.49	6.66	6.62	NM	6.71
Field Dissolved Oxygen	mg/L	0.27	0.25	0.19	0.09	0.18	NM	0.48	NM
Field Conductivity	umhos/cm	2024	2492	2426	2475	2519	2327	2303	2400
Field Turbidity	NTU	7.3	7.5	16.1	19	23.2	9.1	9.8	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	2390	2420	2280	2530	2530	2840	2300	2480
Oxidation-Reduction Potential	mV	280	110	200	94	47	44	-38.3	64
pH	s.u.	6.91	7.15	6.78	7.09	7.72	7.27	7.02	7.34
Sodium Adsorption Ratio (SAR)	unitless	1	1	0.98	0.98	0.95	0.99	0.94	0.96
Solids, Total Dissolved TDS @ 180 C	mg/L	2200	2300	2200	2100	2300	2300	2200	2300
Major Ions									
Alkalinity, Total as CaCO3	mg/L	124	120	114	114	122	122	122	114
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	151	146	139	139	149	149	149	139
Calcium	mg/L	338	366	382	393	356	385	370	366
Chloride	mg/L	12	9	9	9	10	10	9	10
Fluoride	mg/L	0.2	0.3	0.5	0.3	0.4	0.4	0.4	0.2
Magnesium	mg/L	125	129	137	141	139	139	133	128
Nitrogen, Ammonia as N	mg/L	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2
Nitrogen, Nitrate as N	mg/L	< 0.1	0.09	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	14.6	15.6	15.5	15.9	22.2	16	14.4	15.1
Sodium	mg/L	84.6	89	88	89	84	89	83	84
Sulfate	mg/L	1300	1450	1270	1470	1530	1290	1470	1380
Silica	mg/L	9.5	4.8	5.2	5.5	2.6	5	11.5	10.5
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	1.56	2.49	1.69	1.6	3.38	4.36	3.87	2.67
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	2.18	2.39	2.31	2.56	2.44	2.55	2.41	2.37
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.109	0.11	0.101	0.104	0.119	0.113	0.103	0.103
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	0.01	< 0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	0.002	6E-04	0.004	0.004	0.006	0.002	6E-04	0.004
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.004	< 0.001	0.002	0.005	0.002	< 0.004	< 0.001	0.006
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		698							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/28/2008	6/24/2008	7/14/2008	8/19/2008	9/22/2008	10/20/2008
Time Collected		2:04 PM	11:30 AM	12:35 PM	11:55 AM	6:43 PM	5:35 PM	1:05 PM	1:52 PM
Lab ID		R08030315 -002	R08040287 -004	R08050406 -001	R08060427 -001	R08070244 -010	R08080301 -003	R08090314 -003	R08100295 -004
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003	< 0.002	< 0.001
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	4.06	4.53	4.6	5.48	5.66	4.78	5.15	4.86
Lead	mg/L	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	2.31	2.5	2.32	2.66	2.53	2.54	2.57	2.47
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	0.002	< 0.001	< 0.001	< 0.002	0.005	< 0.003	< 0.005	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005
Strontium	mg/L	4.9	5.2	4.8	5.2	4.7	4.6	4.9	4.9
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.123	0.119	0.116	0.113	0.116	0.101	0.102	0.132
Zinc	mg/L	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	1750	2110	1210	1790	1790	1560	36.3	1330
Gross Beta	pCi/L	657	604	380	470	599	488	19.8	399
Lead 210	pCi/L	-14 (1)*	-3.5 (1)*	5.5 (8.2)*	-1.7 (11.4)*	-0.4 (9.2)*	3.1 (10.7)*	2.2 (9)*	6.8
Polonium 210	pCi/L	1	1.4	0.2 (1)*	1.1	1.6	0.4 (1)*	0 (1)*	0.3 (1)*
Radium 226	pCi/L	387	370	413	429	423	372	410	347
Thorium 230	pCi/L	0 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.1	0 (0.2)*	< 0.2	0 (0.2)*
Gross Gamma	pCi/L	790	680	4100	170	1500	1300	240	1700
Radionuclides - Suspended									
Lead 210	pCi/L	0 (1)*	0 (1)*	2.6 (17.7)*	7.4 (7.4)*	-0.7 (11.8)*	1.1 (17.8)*	0.5 (7.8)*	4.7 (6.8)*
Polonium 210	pCi/L	1.2	-0.2 (1)*	1.4	1.2	1.5	0.5 (1)*	0.06 (1)*	1
Radium 226	pCi/L	15.3	6.4	14	11.6	6.3	1.7	0.2 (0.4)*	7.4
Thorium 230	pCi/L	0.4	0.2	0.7	0.7	0.9	0.5	0 (0.2)*	0.2 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	32200	25800	25600	40700	27900	38200	29500	38200
Data Quality									
A/C Balance (± 5)	%	2.58	0.92	9.13	3.88	-1.21	8.93	0.65	2.91
Anions	meq/L	29.9	32.8	28.9	33.1	34.6	29.5	33.2	31.2
Cations	meq/L	31.4	33.4	34.8	35.8	33.7	35.3	33.7	33.1
Solids, Total Dissolved Calculated	mg/L	1970	2140	1980	2200	2220	2010	2180	2080
TDS Balance (0.80 - 1.20)	dec. %	1.13	1.05	1.09	0.97	1.03	1.13	1.02	1.1



Powertech (USA) Inc. Hydro ID		698				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		12:00 PM	1:00 PM	2:07 PM	12:10 PM								
Lab ID		R08110211-008	R08120255-005	R09010301-009	R09020293-004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3680	3680	3679	3680	12	3679.4	3679.8	3679.6				
Field Temperature	°C	12.1	10.9	11.8	11.9	12	10.9	12.4	11.71				
Field pH	s.u.	6.76	6.78	6.77	6.83	11	6.49	6.87	6.735				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	6	0.09	0.48	0.243				
Field Conductivity	umhos/cm	2500	2800	2500	2400	12	2024	2800	2430				
Field Turbidity	NTU	NM	NM	NM	NM	7	7.3	23.2	13.14				
Physical Properties													
Conductivity @ 25 C	umhos/cm	2300	2290	2410	2360	12	2280	2840	2428				
Oxidation-Reduction Potential	mV	300	160	300	110	12	-38.3	300	140				
pH	s.u.	7.42	6.92	6.74	6.82	12	6.74	7.72	7.098				
Sodium Adsorption Ratio (SAR)	unitless	0.95	0.95	1.1	0.99	12	0.94	1.1	0.98				
Solids, Total Dissolved TDS @ 180 C	mg/L	2200	2200	1700	2200	12	1700	2300	2180				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	112	114	118	110	12	110	124	117.2				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	137	139	144	134	12	134	151	142.9				
Calcium	mg/L	388	374	341	357	12	338	393	368				
Chloride	mg/L	10	10	10	9	12	9	12	9.8				
Fluoride	mg/L	0.2	0.2	0.4	0.4	12	0.2	0.5	0.33				
Magnesium	mg/L	141	135	127	131	12	125	141	133.8				
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.1	0.2	12	0.1	0.2	0.16				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	15.5	15.5	16	15.5	12	14.4	22.2	15.98				
Sodium	mg/L	86	84	92.1	86.5	12	83	92.1	86.6				
Sulfate	mg/L	1360	1340	1340	1240	12	1240	1530	1370				
Silica	mg/L	11.1	11.3	10.2	10.2	12	2.6	11.5	8.12				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.07				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	2.54	2.99	1.74	2.03	12	1.56	4.36	2.577				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	2.25	2.58	2.39	2.45	12	2.18	2.58	2.407				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.106	0.1	0.1	0.108	12	0.0998	0.119	0.1063				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.006				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	0.004	0.003	0.002	0.005	12	0.0006	0.0055	0.0031				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	< 0.001	0.004	< 0.002	0.003	12	< 0.001	0.006	0.0025				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		698				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		12:00 PM	1:00 PM	2:07 PM	12:10 PM								
Lab ID		R08110211 -008	R08120255 -005	R09010301 -009	R09020293 -004								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.003	0.0006				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.2	12	< 0.1	< 0.2	0.06				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	4.42	4.66	4.6	4.37	12	4.06	5.66	4.764				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Manganese	mg/L	2.31	2.54	2.37	2.7	12	2.31	2.7	2.49				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.002	< 0.002	0.001	12	< 0.001	< 0.005	0.0014				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.02	0.003				
Strontium	mg/L	4.4	4.9	4.8	4.7	12	4.4	5.2	4.83				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.103	0.112	0.108	0.113	12	0.101	0.132	0.1132				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	1680	1570	1960	1270	12	36.3	2110	1505				
Gross Beta	pCi/L	619	664	547	357	12	19.8	664	483.7				
Lead 210	pCi/L	1.4 (4.4)*	4.7	0.1 (4.2)*	1.5 (2.7)*	12	-14	6.8	0.48				
Polonium 210	pCi/L	0.3 (1)*	0.3 (1)*	0.42 (0.68)*	0.4 (0.51)*	12	0	1.6	0.62				
Radium 226	pCi/L	403	363	386	355	12	347	429	388.2				
Thorium 230	pCi/L	0.1 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0.03 (0.3)*	12	< 0.2	< 0.2	0.04				
Gross Gamma	pCi/L	1700	620	1400	420	12	170	4100	1220				
Radionuclides - Suspended													
Lead 210	pCi/L	4.4 (9)*	3.2 (10.4)*	0.9 (8)*	4.5 (5.7)*	12	-0.7	7.4	2.38				
Polonium 210	pCi/L	1.6	1	2	0.78	12	-0.2	2	1				
Radium 226	pCi/L	9	4.7	7.3	11	12	0.2	15.3	7.91				
Thorium 230	pCi/L	0.2 (0.2)*	0.2 (0.2)*	1.9	1	12	0	1.9	0.58				
Radionuclides - Total													
Radon 222	pCi/L	37400	37600	32100	38400	12	25600	40700	33630				
Data Quality													
A/C Balance (± 5)	%	6.79	5.82	2.51	7.55	12	-1.21	9.13	4.205				
Anions	meq/L	30.9	30.4	30.6	28.4	12	28.4	34.6	31.13				
Cations	meq/L	35.4	34.2	32.2	33	12	31.4	35.8	33.83				
Solids, Total Dissolved Calculated	mg/L	2100	2060	2030	1940	12	1940	2220	2076				
TDS Balance (0.80 - 1.20)	dec. %	1.05	1.07	0.82	1.15	12	0.82	1.15	1.051				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		703		Summary Statistics		
Month Sampled		Jan-09				
Date Collected		1/20/2009				
Time Collected		3:05 PM				
Lab ID		R09010302 -001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Field Parameters						
Water Level Elevation	ft AMSL	NM	0	NM	NM	NM
Field Temperature	°C	11.9	1	11.9	11.9	11.9
Field pH	s.u.	11.13	1	11.13	11.13	11.13
Field Dissolved Oxygen	mg/L	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	2500	1	2500	2500	2500
Field Turbidity	NTU	NM	0	NM	NM	NM
Physical Properties						
Conductivity @ 25 C	umhos/cm	2420	1	2420	2420	2420
Oxidation-Reduction Potential	mV	88	1	88	88	88
pH	s.u.	11.4	1	11.4	11.4	11.4
Sodium Adsorption Ratio (SAR)	unitless	12	1	12	12	12
Solids, Total Dissolved TDS @ 180 C	mg/L	1400	1	1400	1400	1400
Major Ions						
Alkalinity, Total as CaCO3	mg/L	148	1	148	148	148
Carbonate as CO3	mg/L	< 5	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	180	1	180	180	180
Calcium	mg/L	72.6	1	72.6	72.6	72.6
Chloride	mg/L	16	1	16	16	16
Fluoride	mg/L	0.3	1	0.3	0.3	0.3
Magnesium	mg/L	< 0.5	1	< 0.5	< 0.5	0.25
Nitrogen, Ammonia as N	mg/L	1.6	1	1.6	1.6	1.6
Nitrogen, Nitrate as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Potassium	mg/L	9.3	1	9.3	9.3	9.3
Sodium	mg/L	370	1	370	370	370
Sulfate	mg/L	828	1	828	828	828
Silica	mg/L	4.2	1	4.2	4.2	4.2
Metals - Dissolved						
Aluminum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.3	1	0.3	0.3	0.3
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.05	1	0.05	0.05	0.05
Lead	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Thorium 232	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Uranium	mg/L	3E-04	1	0.0003	0.0003	0.0003
Vanadium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Zinc	mg/L	0.03	1	0.03	0.03	0.03
Metals - Dissolved - Speciated						
Selenium-IV	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Selenium-VI	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Metals - Suspended						
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Metals - Total						
Antimony	mg/L	< 0.003	1	< 0.003	< 0.003	0.0015
Arsenic	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Barium	mg/L	< 0.1	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		703		Summary Statistics		
Month Sampled		Jan-09				
Date Collected		1/20/2009				
Time Collected		3:05 PM				
Lab ID		R09010302 -001				
Analyte	Units	Result	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Boron	mg/L	0.4	1	0.4	0.4	0.4
Cadmium	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Chromium	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.68	1	0.68	0.68	0.68
Lead	mg/L	0.007	1	0.007	0.007	0.007
Manganese	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Mercury	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Molybdenum	mg/L	< 0.1	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Silver	mg/L	< 0.005	1	< 0.005	< 0.005	0.0025
Strontium	mg/L	2.2	1	2.2	2.2	2.2
Thallium	mg/L	< 0.001	1	< 0.001	< 0.001	0.0005
Uranium	mg/L	< 3E-04	1	< 0.0003	< 0.0003	0.0002
Zinc	mg/L	< 0.01	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved						
Gross Alpha	pCi/L	42.6	1	42.6	42.6	42.6
Gross Beta	pCi/L	14.2	1	14.2	14.2	14.2
Lead 210	pCi/L	1 (4.2)*	1	1	1	1
Polonium 210	pCi/L	-0.015 (0.53)*	1	-0.015	-0.015	-0.015
Radium 226	pCi/L	0.4	1	0.4	0.4	0.4
Thorium 230	pCi/L	0.1 (0.2)*	1	0.1	0.1	0.1
Gross Gamma	pCi/L	1100	1	1100	1100	1100
Radionuclides - Suspended						
Lead 210	pCi/L	1.1 (8)*	1	1.1	1.1	1.1
Polonium 210	pCi/L	0.047 (0.58)*	1	0.047	0.047	0.047
Radium 226	pCi/L	-0.4 (0.5)*	1	-0.4	-0.4	-0.4
Thorium 230	pCi/L	-0.2 (0.2)*	1	-0.2	-0.2	-0.2
Radionuclides - Total						
Radon 222	pCi/L	153	1	153	153	153
Data Quality						
A/C Balance (± 5)	%	-1.35	1	-1.35	-1.35	-1.35
Anions	meq/L	20.7	1	20.7	20.7	20.7
Cations	meq/L	20.1	1	20.1	20.1	20.1
Solids, Total Dissolved Calculated	mg/L	1400	1	1400	1400	1400
TDS Balance (0.80 - 1.20)	dec. %	1.01	1	1.01	1.01	1.01

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		704 Unkpapa	704 Chilson	Summary Statistics Unkpapa				Summary Statistics Chilson			
Month Sampled		Sep-08	Feb-09	Summary Statistics Unkpapa				Summary Statistics Chilson			
Date Collected		9/23/2008	2/24/2009	Summary Statistics Unkpapa				Summary Statistics Chilson			
Time Collected		12:30 PM	9:40 AM	Summary Statistics Unkpapa				Summary Statistics Chilson			
Lab ID		R08090356-003	R09020293-002	Summary Statistics Unkpapa				Summary Statistics Chilson			
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**	n	Minimum	Maximum	Mean**
Field Parameters											
Water Level Elevation	ft AMSL	NM	NM	0	NM	NM	NM	0	NM	NM	NM
Field Temperature	°C	20.1	13.3	1	20.1	20.1	20.1	1	13.3	13.3	13.3
Field pH	s.u.	9.37	8.02	1	9.37	9.37	9.37	1	8.02	8.02	8.02
Field Dissolved Oxygen	mg/L	NM	NM	0	NM	NM	NM	0	NM	NM	NM
Field Conductivity	umhos/cm	2100	1360	1	2100	2100	2100	1	1360	1360	1360
Field Turbidity	NTU	NM	NM	0	NM	NM	NM	0	NM	NM	NM
Physical Properties											
Conductivity @ 25 C	umhos/cm	1570	1300	1	1570	1570	1570	1	1300	1300	1300
Oxidation-Reduction Potential	mV	160	200	1	160	160	160	1	200	200	200
pH	s.u.	9.46	7.78	1	9.46	9.46	9.46	1	7.78	7.78	7.78
Sodium Adsorption Ratio (SAR)	unitless	17	6.1	1	17	17	17	1	6.1	6.1	6.1
Solids, Total Dissolved TDS @ 180	mg/L	1300	890	1	1300	1300	1300	1	890	890	890
Major Ions											
Alkalinity, Total as CaCO3	mg/L	74	168	1	74	74	74	1	168	168	168
Carbonate as CO3	mg/L	12	< 5	1	12	12	12	1	< 5	< 5	2.5
Bicarbonate as HCO3	mg/L	66	205	1	66	66	66	1	205	205	205
Calcium	mg/L	23	55	1	23	23	23	1	55	55	55
Chloride	mg/L	70	10	1	70	70	70	1	10	10	10
Fluoride	mg/L	0.8	0.5	1	0.8	0.8	0.8	1	0.5	0.5	0.5
Magnesium	mg/L	14.8	18.6	1	14.8	14.8	14.8	1	18.6	18.6	18.6
Nitrogen, Ammonia as N	mg/L	0.5	0.1	1	0.5	0.5	0.5	1	0.1	0.1	0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Potassium	mg/L	6.8	9.3	1	6.8	6.8	6.8	1	9.3	9.3	9.3
Sodium	mg/L	437	205	1	437	437	437	1	205	205	205
Sulfate	mg/L	872	487	1	872	872	872	1	487	487	487
Silica	mg/L	< 0.2	7.1	1	< 0.2	< 0.2	0.1	1	7.1	7.1	7.1
Metals - Dissolved											
Aluminum	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Arsenic	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Barium	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Boron	mg/L	0.9	< 0.1	1	0.9	0.9	0.9	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	< 0.005	1	< 0.005	< 0.005	0.003	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	1	< 0.05	< 0.05	0.025	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	1	< 0.01	< 0.01	0.005	1	< 0.01	< 0.01	0.005
Iron	mg/L	< 0.03	< 0.03	1	< 0.03	< 0.03	0.015	1	< 0.03	< 0.03	0.015
Lead	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	< 0.01	0.08	1	< 0.01	< 0.01	0.005	1	0.08	0.08	0.08
Mercury	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	1	< 0.05	< 0.05	0.025	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Silver	mg/L	< 0.005	< 0.005	1	< 0.005	< 0.005	0.003	1	< 0.005	< 0.005	0.003
Thorium 232	mg/L	< 0.005	< 0.005	1	< 0.005	< 0.005	0.003	1	< 0.005	< 0.005	0.003
Uranium	mg/L	< 0.0003	< 3E-04	1	< 3E-04	< 3E-04	2E-04	1	< 3E-04	< 3E-04	2E-04
Vanadium	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Zinc	mg/L	< 0.01	< 0.01	1	< 0.01	< 0.01	0.005	1	< 0.01	< 0.01	0.005
Metals - Dissolved - Speciated											
Selenium-IV	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Selenium-VI	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Metals - Suspended											
Uranium	mg/L	< 0.0003	< 3E-04	1	< 3E-04	< 3E-04	2E-04	1	< 3E-04	< 3E-04	2E-04
Metals - Total											
Antimony	mg/L	< 0.003	< 0.003	1	< 0.003	< 0.003	0.002	1	< 0.003	< 0.003	0.002
Arsenic	mg/L	< 0.001	0.001	1	< 0.001	< 0.001	5E-04	1	0.001	0.001	0.001
Barium	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05



Powertech (USA) Inc. Hydro ID		704 Unkpapa	704 Chilson	Summary Statistics Unkpapa				Summary Statistics Chilson			
Month Sampled		Sep-08	Feb-09								
Date Collected		9/23/2008	2/24/2009								
Time Collected		12:30 PM	9:40 AM								
Lab ID		R08090356 -003	R09020293 -002								
Analyte	Units	Result	Result	n	Minimum	Maximum	Mean**	n	Minimum	Maximum	Mean**
Beryllium	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Boron	mg/L	0.9	< 0.1	1	0.9	0.9	0.9	1	< 0.1	< 0.1	0.05
Cadmium	mg/L	< 0.005	< 0.005	1	< 0.005	< 0.005	0.003	1	< 0.005	< 0.005	0.003
Chromium	mg/L	< 0.05	< 0.05	1	< 0.05	< 0.05	0.025	1	< 0.05	< 0.05	0.025
Copper	mg/L	< 0.01	< 0.01	1	< 0.01	< 0.01	0.005	1	< 0.01	< 0.01	0.005
Iron	mg/L	0.87	1.55	1	0.87	0.87	0.87	1	1.55	1.55	1.55
Lead	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Manganese	mg/L	0.04	0.09	1	0.04	0.04	0.04	1	0.09	0.09	0.09
Mercury	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Molybdenum	mg/L	< 0.1	< 0.1	1	< 0.1	< 0.1	0.05	1	< 0.1	< 0.1	0.05
Nickel	mg/L	< 0.05	< 0.05	1	< 0.05	< 0.05	0.025	1	< 0.05	< 0.05	0.025
Selenium	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Silver	mg/L	< 0.005	< 0.005	1	< 0.005	< 0.005	0.003	1	< 0.005	< 0.005	0.003
Strontium	mg/L	2.5	1	1	2.5	2.5	2.5	1	1	1	1
Thallium	mg/L	< 0.001	< 0.001	1	< 0.001	< 0.001	5E-04	1	< 0.001	< 0.001	5E-04
Uranium	mg/L	< 0.0003	< 3E-04	1	< 3E-04	< 3E-04	2E-04	1	< 3E-04	< 3E-04	2E-04
Zinc	mg/L	< 0.01	< 0.01	1	< 0.01	< 0.01	0.005	1	< 0.01	< 0.01	0.005
Radionuclides - Dissolved											
Gross Alpha	pCi/L	-3 (7.4)*	2.5 (4.7)*	1	-3	-3	-3	1	2.5 (4.7)*	2.5 (4.7)*	2.5
Gross Beta	pCi/L	-5 (6.7)*	8.8	1	-5	-5	-5	1	8.8	8.8	8.8
Lead 210	pCi/L	1.1 (9)*	-1 (2.7)*	1	1.1	1.1	1.1	1	-1 (2.7)*	-1 (2.7)*	-1
Polonium 210	pCi/L	0.3 (1)*	0.15 (0.55)*	1	0.3	0.3	0.3	1	0.15 (0.55)*	0.15 (0.55)*	0.15
Radium 226	pCi/L	0.04 (-5000)*	1.6	1	0.04	0.04	0.04	1	1.6	1.6	1.6
Thorium 230	pCi/L	0 (0.2)*	0.04 (0.2)*	1	0	0	0	1	0.04 (0.2)*	0.04 (0.2)*	0.04
Gross Gamma	pCi/L	830	0 (*)	1	830	830	830	1	0 (*)	0 (*)	0
Radionuclides - Suspended											
Lead 210	pCi/L	-3 (7.8)*	-0.2 (5.7)*	1	-3	-3	-3	1	-0.2 (5.7)*	-0.2 (5.7)*	-0.2
Polonium 210	pCi/L	-0.02 (*)	0.07 (0.72)*	1	-0.02	-0.02	-0.015	1	0.068 (0.72)*	0.068 (0.72)*	0.068
Radium 226	pCi/L	-0.2 (0.4)*	-0.03 (0.3)*	1	-0.2	-0.2	-0.2	1	-0.03 (0.3)*	-0.03 (0.3)*	-0.03
Thorium 230	pCi/L	0.3	-0.01 (0.3)*	1	0.3	0.3	0.3	1	-0.007 (0.3)*	-0.007 (0.3)*	-0.01
Radionuclides - Total											
Radon 222	pCi/L	188	200	1	188	188	188	1	200	200	200
Data Quality											
A/C Balance (± 5)	%	-0.14	-1.29	1	-0.14	-0.14	-0.14	1	-1.29	-1.29	-1.29
Anions	meq/L	21.6	13.8	1	21.6	21.6	21.6	1	13.8	13.8	13.8
Cations	meq/L	21.6	13.4	1	21.6	21.6	21.6	1	13.4	13.4	13.4
Solids, Total Dissolved Calculated	mg/L	1470	905	1	1470	1470	1470	1	905	905	905
TDS Balance (0.80 - 1.20)	dec. %	0.9	0.98	1	0.9	0.9	0.9	1	0.98	0.98	0.98

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		705							
Month Sampled		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10
Date Collected		1/18/2010	2/22/2010	3/15/2010	4/21/2010	5/17/2010	6/22/2010	7/27/2010	8/23/2010
Time Collected									
Lab ID		R10010180-001	R10020266-001	R10030205-001	R10040303-001	R10050253-001	R10060444-001	R10070459-001	R10080398-001
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	NM	3710	3710
Field Temperature	°C	13.8	13.4	12.9	13.7	14.6	15.3	15.2	14.8
Field pH	s.u.	9.83	9.98	8.97	8.83	7.99	7.76	7.68	7.73
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	NM	NM	NM	NM
Field Conductivity	umhos/cm	1260	1260	1300	1320	1360	1380	1360	1370
Field Turbidity	NTU	NM	NM	NM	NM	NM	NM	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1150	1570	1360	1300	1300	1320	1320	1330
Oxidation-Reduction Potential	mV	210	220	200	230	260	330	180	270
pH	s.u.	9.03	9.34	7.93	8.04	7.91	7.86	7.84	7.88
Sodium Adsorption Ratio (SAR)	unitless	4.6	4.7	3.6	4.2	4	3.6	3.8	3.7
Solids, Total Dissolved TDS @ 180 C	mg/L	770	840	1000	970	840	910	950	1100
Major Ions									
Alkalinity, Total as CaCO3	mg/L	40	36	160	104	130	152	168	168
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	44	39	195	127	158	185	205	205
Calcium	mg/L	61	54	88	76	81	92	94	97
Chloride	mg/L	7	7.2	8	7	8	7	7	8
Fluoride	mg/L	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.5
Magnesium	mg/L	21.7	22.5	31.8	28	29.4	33.6	34.9	35.4
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.1	0.6	0.2	< 0.1	0.1	0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1
Potassium	mg/L	13.6	12.9	11.5	12.7	11.7	11.8	11.3	11.7
Sodium	mg/L	166	162	154	168	166	159	169	169
Sulfate	mg/L	513	495	509	521	542	524	534	575
Silica	mg/L	7.1	7.8	8.3	10.3	7.5	8.2	9.3	8.5
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.01	< 0.01	0.04	0.02	0.03	0.05	0.05	0.05
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	7E-04	< 3E-04
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	0.002	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.001	< 0.001	0.001	0.001	0.001	0.004	0.001	0.003
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		705							
Month Sampled		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10
Date Collected		1/18/2010	2/22/2010	3/15/2010	4/21/2010	5/17/2010	6/22/2010	7/27/2010	8/23/2010
Time Collected									
Lab ID		R10010180-001	R10020266-001	R10030205-001	R10040303-001	R10050253-001	R10060444-001	R10070459-001	R10080398-001
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	0.1	0.1	< 0.1	0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.1	< 0.03	0.34	0.11	0.22	0.31	0.25	0.28
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.02	< 0.01	0.05	0.02	0.03	0.05	0.05	0.05
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	2.6	2.2	2.8	2.6	2.4	2.8	2.8	2.7
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	3 (4.6)*	1.1 (3.8)*	8.6	7.5	3.9 (5.2)*	6.2 (7.1)*	6.7	8.9
Gross Beta	pCi/L	11.3	6.7	13.7	12.8	8.4	13.4	17.1	15.5
Lead 210	pCi/L	0.3 (2.8)*	-0.1 (1.3)*	2 (2.8)*	-2 (2.6)*	0.02 (2.9)*	0.8 (2.3)*	0.4 (2.3)*	0.01 (1.7)*
Polonium 210	pCi/L	0.05 (0.44)*	0.05 (0.38)*	-0.02 (0.56)*	-0.04 (0.56)*	-0.06 (1.1)*	0.11 (0.54)*	0.08 (0.61)*	0.09 (0.56)*
Radium 226	pCi/L	0.6	0.8	2.1	1.8	1.6	1.8	1.8	1.8
Thorium 230	pCi/L	0.02 (0.1)*	0.01 (0.2)*	0 (0.2)*	0.1 (0.2)*	0.03 (0.1)*	1.2	0.04 (0.09)*	0.09 (0.2)*
Gross Gamma	pCi/L	1100	< 20	810	1000	420	500	500	710
Radionuclides - Suspended									
Lead 210	pCi/L	1.9 (7.1)*	0.2 (2.7)*	0.06 (2.9)*	-0.1 (5.2)*	-0.3 (6.1)*	2.7 (5.7)*	-1 (4.2)*	-0.08 (1.3)*
Polonium 210	pCi/L	-0.06 (1.2)*	0.07 (0.53)*	-0.01 (0.26)*	0.18 (1.2)*	0.08 (0.62)*	-0.04 (0.64)*	-0.1 (0.95)*	0.07 (0.55)*
Radium 226	pCi/L	-0.2 (0.08)*	0.03 (0.1)*	0.2	-0.01 (0.1)*	0.3 (0.3)*	-0.3 (0.4)*	-0.1 (0.2)*	-0.2 (0.3)*
Thorium 230	pCi/L	-0.1 (-500)*	-0.07 (-500)*	-0.08 (-500)*	-0.1 (-500)*	-0.4 (-500)*	-0.4 (-500)*	0.2 (-500)*	-0.03 (0.1)*
Radionuclides - Total									
Radon 222	pCi/L	206	< 100	260	< 100	157	243	247	238
Data Quality									
A/C Balance (± 5)	%	2.96	2.9	0.03	2.2	-0.47	1.5	1.76	-0.5
Anions	meq/L	11.7	11.2	14	13.2	14.1	14.2	14.7	15.6
Cations	meq/L	12.4	11.9	14	13.7	14	14.6	15.2	15.4
Solids, Total Dissolved Calculated	mg/L	825	1130	922	903	937	944	977	1020
TDS Balance (0.80 - 1.20)	dec. %	0.93	1.06	1.08	1.07	0.9	0.96	0.97	1.04



Powertech (USA) Inc. Hydro ID		705				Summary Statistics							
Month Sampled		Sep-10	Oct-10	Nov-10	Dec-10								
Date Collected		9/28/2010	10/25/2010	11/15/2010	12/14/2010								
Time Collected													
Lab ID		R10090519-001	R10100355-001	R10110179-001	R10120179-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	NM	3710	3710	3710	5	3709.6	3710	3709.7				
Field Temperature	°C	14.8	14.1	13.8	13.8	12	12.9	15.3	14.18				
Field pH	s.u.	7.7	7.77	7.74	7.7	12	7.68	9.98	8.307				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	0	NM	NM	NM				
Field Conductivity	umhos/cm	1380	1380	1390	1390	12	1260	1390	1346				
Field Turbidity	NTU	NM	NM	NM	NM	0	NM	NM	NM				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1390	1310	1300	1350	12	1150	1570	1333				
Oxidation-Reduction Potential	mV	260	270	210	190	12	180	330	236				
pH	s.u.	7.77	7.77	7.63	7.59	12	7.59	9.34	8.049				
Sodium Adsorption Ratio (SAR)	unitless	3.8	3.6	3.6	3.6	12	3.6	4.7	3.9				
Solids, Total Dissolved TDS @ 180 C	mg/L	990	940	990	990	12	770	1100	940				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	166	170	166	166	12	36	170	136				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	202	207	202	202	12	39	207	164.3				
Calcium	mg/L	95.3	93.8	91.4	95.8	12	54	97	84.9				
Chloride	mg/L	8	7	8	8	12	7	8	7.5				
Fluoride	mg/L	0.4	0.3	0.5	0.4	12	0.2	0.5	0.37				
Magnesium	mg/L	34.8	33.7	33.4	34.4	12	21.7	35.4	31.13				
Nitrogen, Ammonia as N	mg/L	0.2	0.2	0.1	0.2	12	< 0.1	0.6	0.19				
Nitrogen, Nitrate as N	mg/L	< 2	< 0.1	< 0.1	< 0.1	12	< 0.1	< 2	0.1				
Nitrogen, Nitrite as N	mg/L	< 2	< 0.1	< 0.1	< 0.1	12	< 0.1	< 2	0.2				
Potassium	mg/L	11.6	11.3	11.8	11.7	12	11.3	13.6	11.97				
Sodium	mg/L	169	162	157	163	12	154	169	163.7				
Sulfate	mg/L	545	524	548	538	12	495	575	530.7				
Silica	mg/L	9.3	8.2	8.8	10.4	12	7.1	10.4	8.64				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.07				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	0.03	12	< 0.03	< 0.03	0.016				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.05	0.04	0.05	0.05	12	< 0.01	0.05	0.037				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	0.002	12	< 0.001	0.002	0.0006				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	0.0007	0.0002				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	0.002	12	< 0.001	0.002	0.0006				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	0.0015	0.0003				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	0.002	0.001	0.002	0.003	12	< 0.001	0.004	0.0017				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		705				Summary Statistics							
Month Sampled		Sep-10	Oct-10	Nov-10	Dec-10								
Date Collected		9/28/2010	10/25/2010	11/15/2010	12/14/2010								
Time Collected													
Lab ID		R10090519 -001	R10100355 -001	R10110179 -001	R10120179 -001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.06				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.23	0.21	0.26	0.2	12	< 0.03	0.34	0.21				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.05	0.05	0.05	0.05	12	< 0.01	0.05	0.04				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	2.7	2.8	2.6	2.7	12	2.2	2.8	2.64				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	< 3E-04	< 3E-04	3E-04	< 3E-04	12	< 0.0003	< 0.0003	0.0002				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	-3 (5.6)*	-0.6 (6)*	0.7 (6)*	-0.3 (5.6)*	12	-3	8.9	3.56				
Gross Beta	pCi/L	8.6	9.7	10.7	11	12	6.7	17.1	11.58				
Lead 210	pCi/L	1.8 (2)*	-0.5 (1.4)*	1 (1.7)*	-0.2 (1.4)*	12	-2	2	0.3				
Polonium 210	pCi/L	-0.02 (0.53)*	-0.04 (0.71)*	-0.01 (0.52)*	0.1 (0.66)*	12	-0.06	0.11	0.024				
Radium 226	pCi/L	1.8	2.4	2	1.9	12	0.6	2.4	1.7				
Thorium 230	pCi/L	0.04 (0.1)*	0.02 (0.1)*	-0.03 (0.2)*	0.05 (0.1)*	12	-0.03	1.2	0.13				
Gross Gamma	pCi/L	390	670	650	390	12	< 20	1100	600				
Radionuclides - Suspended													
Lead 210	pCi/L	-0.07 (1.5)*	0.7 (3.2)*	1.3 (3.3)*	0.6 (2.8)*	12	-1	2.7	0.49				
Polonium 210	pCi/L	-0 (0.19)*	-0.01 (0.62)*	0.08 (0.62)*	0 (0.61)*	12	-0.1	0.18	0.021				
Radium 226	pCi/L	-0.06 (0.07)*	0.1 (0.1)*	0.2	-0.2 (0.3)*	12	-0.3	0.3	-0.02				
Thorium 230	pCi/L	0.03 (0.09)*	-0.3 (0.3)*	-0.2 (0.2)*	-0.2 (0.1)*	12	-0.4	0.2	-0.14				
Radionuclides - Total													
Radon 222	pCi/L	232	202	532	269	12	< 100	532	223.8				
Data Quality													
A/C Balance (± 5)	%	1.23	0.85	-1.85	0.94	12	-1.85	2.96	0.963				
Anions	meq/L	14.9	14.5	15	14.8	12	11.2	15.6	13.99				
Cations	meq/L	15.3	14.8	14.4	15	12	11.9	15.4	14.23				
Solids, Total Dissolved Calculated	mg/L	988	940	974	979	12	825	1130	962				
TDS Balance (0.80 - 1.20)	dec. %	1	0.98	1.02	1.01	12	0.9	1.08	1.002				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		706							
Month Sampled		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10
Date Collected		1/18/2010	2/22/2010	3/15/2010	4/21/2010	5/17/2010	6/22/2010	7/27/2010	8/23/2010
Time Collected									
Lab ID		R10010180 -002	R10020266 -002	R10030205 -003	R10040303 -002	R10050253 -002	R10060444 -002	R10070459 -002	R10080398 -002
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	NM	NM	NM	NM	NM	NM	3725	3725
Field Temperature	°C	13.2	11.7	12.6	13	14	14.3	14.3	14
Field pH	s.u.	7.61	7.6	7.5	7.5	7.45	7.39	7.28	7.37
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	NM	NM	NM	NM
Field Conductivity	umhos/cm	1620	1600	1610	1610	1600	1590	1560	1550
Field Turbidity	NTU	NM	NM	NM	NM	NM	NM	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	1620	1160	1570	1600	1520	1520	1540	1540
Oxidation-Reduction Potential	mV	220	230	220	290	260	340	220	280
pH	s.u.	7.63	7.57	7.48	7.5	7.47	7.5	7.51	7.53
Sodium Adsorption Ratio (SAR)	unitless	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.3
Solids, Total Dissolved TDS @ 180 C	mg/L	1200	1300	1200	1200	1100	1100	1200	1300
Major Ions									
Alkalinity, Total as CaCO3	mg/L	196	190	200	198	200	210	200	194
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	239	232	244	241	244	256	244	236
Calcium	mg/L	172	166	166	173	168	165	163	170
Chloride	mg/L	10	9.9	10	9	10	9	9	10
Fluoride	mg/L	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6
Magnesium	mg/L	49	48	46.6	48.6	47.2	47.4	47.4	48.7
Nitrogen, Ammonia as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	12.4	12.3	11.3	11.9	11.7	11.8	11.5	12.2
Sodium	mg/L	127	126	124	134	130	130	132	133
Sulfate	mg/L	714	677	666	659	694	640	658	708
Silica	mg/L	9.1	8.8	8.3	9	6.7	7.6	8.5	7.9
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.003	0.003	0.001	0.001	0.001	0.001	< 0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.52	0.48	0.53	0.56	0.54	0.56	0.56	0.57
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.009	0.008	0.008	0.008	0.009	0.009	0.007	0.009
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	< 3E-04	0.001	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.003	0.003	0.001	0.002	0.001	0.001	0.001	0.001
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		706							
Month Sampled		Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10
Date Collected		1/18/2010	2/22/2010	3/15/2010	4/21/2010	5/17/2010	6/22/2010	7/27/2010	8/23/2010
Time Collected									
Lab ID		R10010180-002	R10020266-002	R10030205-003	R10040303-002	R10050253-002	R10060444-002	R10070459-002	R10080398-002
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.03	0.07	0.15	< 0.04	< 0.03	< 0.03	< 0.03	< 0.03
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.54	0.5	0.56	0.57	0.55	0.57	0.56	0.58
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	2.4	2.5	2.4	2.4	2.3	2.4	2.3	2.3
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.009	0.008	0.009	0.008	0.009	0.008	0.008	0.008
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	39.7	37.9	11.2	56.3	40.1	34	31.6	21.9
Gross Beta	pCi/L	18.3	27.5	19.7	32.7	25.7	19.6	27.2	25.2
Lead 210	pCi/L	1.1 (2.8)*	-0.1 (1.3)*	0.7 (2.8)*	-2 (2.7)*	2.2 (2.9)*	0.7 (2.3)*	-1 (2.3)*	-0.7 (1.7)*
Polonium 210	pCi/L	0.07 (1.4)*	0.23 (0.64)*	0 (0.42)*	-0 (0.6)*	-0.06 (1.1)*	-0.04 (0.6)*	0.06 (0.62)*	-0.04 (0.77)*
Radium 226	pCi/L	2.7	2.3	2.9	4.3	1.9	2.5	2.6	2.7
Thorium 230	pCi/L	0.01 (0.1)*	-0.01 (0.2)*	-0.01 (0.1)*	0 (0.1)*	0.01 (0.1)*	0.8	0.04 (0.2)*	-0.02 (0.2)*
Gross Gamma	pCi/L	820	< 20	990	960	< 20	1300	980	610
Radionuclides - Suspended									
Lead 210	pCi/L	2.6 (7.1)*	0.3 (2.8)*	0.7 (2.9)*	0.7 (5.2)*	-1 (6.1)*	0.05 (5.7)*	-2 (4.2)*	-0.02 (1.3)*
Polonium 210	pCi/L	0.12 (2.1)*	-0.1 (0.73)*	0.06 (0.34)*	0.14 (0.48)*	0.06 (0.8)*	-0.05 (0.85)*	0 (0.48)*	0.07 (0.54)*
Radium 226	pCi/L	-0.2 (0.08)*	0.07 (0.1)*	0.2	0.03 (0.1)*	0.6	-0.2 (0.3)*	-0.1 (0.2)*	-0.1 (0.3)*
Thorium 230	pCi/L	0.06 (-500)*	-0.07 (-500)*	-0 (-500)*	0.1 (-500)*	-0.1 (-500)*	-0.2 (-500)*	-0.2 (-500)*	-0.03 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	270	313	319	303	303	338	373	342
Data Quality									
A/C Balance (± 5)	%	-1.62	-0.44	-0.99	2.25	-1.36	0.9	0.4	-0.75
Anions	meq/L	19.1	18.2	18.2	18	18.8	17.8	18	18.9
Cations	meq/L	18.5	18	17.8	18.8	18.3	18.2	18.1	18.6
Solids, Total Dissolved Calculated	mg/L	1230	1540	1170	1180	1200	1150	1160	1220
TDS Balance (0.80 - 1.20)	dec. %	0.96	1.08	1.06	1.06	0.93	0.96	1	1.09



Powertech (USA) Inc. Hydro ID		706				Summary Statistics								
Month Sampled	Sep-10	Oct-10	Nov-10	Dec-10										
Date Collected	9/28/2010	10/25/2010	11/15/2010	12/14/2010										
Time Collected														
Lab ID	R10090519 -002	R10100355 -002	R10110179 -002	R10120179 -002	Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**
Field Parameters														
Water Level Elevation	ft AMSL	NM	3726	3725	3725	5	3724.8	3725.8	3725.3					
Field Temperature	°C	13.9	13.2	13.4	13.2	12	11.7	14.3	13.4					
Field pH	s.u.	7.35	7.45	7.38	7.38	12	7.28	7.61	7.438					
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	0	NM	NM	NM					
Field Conductivity	umhos/cm	1570	1580	1590	1590	12	1550	1620	1589					
Field Turbidity	NTU	NM	NM	NM	NM	0	NM	NM	NM					
Physical Properties														
Conductivity @ 25 C	umhos/cm	1560	1510	1470	1540	12	1160	1620	1513					
Oxidation-Reduction Potential	mV	290	320	220	200	12	200	340	258					
pH	s.u.	7.44	7.59	7.35	7.3	12	7.3	7.63	7.489					
Sodium Adsorption Ratio (SAR)	unitless	2.3	2.3	2.2	2.2	12	2.2	2.4	2.27					
Solids, Total Dissolved TDS @ 180 C	mg/L	1200	1200	1200	1200	12	1100	1300	1200					
Major Ions														
Alkalinity, Total as CaCO3	mg/L	192	192	194	194	12	190	210	197					
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	< 5	2.5					
Bicarbonate as HCO3	mg/L	234	234	236	236	12	232	256	239.7					
Calcium	mg/L	166	167	163	167	12	163	173	167.2					
Chloride	mg/L	10	9	10	10	12	9	10	10					
Fluoride	mg/L	0.5	0.5	0.6	0.6	12	0.4	0.6	0.51					
Magnesium	mg/L	47.9	47.7	45.2	47.8	12	45.2	49	47.6					
Nitrogen, Ammonia as N	mg/L	< 0.1	0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.06					
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Potassium	mg/L	11.6	11.6	12	11.9	12	11.3	12.4	11.85					
Sodium	mg/L	132	132	125	128	12	124	134	129.4					
Sulfate	mg/L	687	648	689	682	12	640	714	676.8					
Silica	mg/L	8.6	7.9	8.3	9.3	12	6.7	9.3	8.33					
Metals - Dissolved														
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Arsenic	mg/L	0.001	0.001	< 0.001	< 0.001	12	< 0.001	0.003	0.0012					
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025					
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025					
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005					
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	12	< 0.03	< 0.03	0.015					
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005					
Manganese	mg/L	0.53	0.49	0.57	0.58	12	0.48	0.58	0.541					
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005					
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025					
Selenium	mg/L	< 0.001	< 0.001	< 0.001	0.002	12	< 0.001	0.002	0.0006					
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025					
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025					
Uranium	mg/L	0.008	0.009	0.008	0.008	12	0.0069	0.0089	0.0083					
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	0.02	0.006					
Metals - Dissolved - Speciated														
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005					
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	0.002	12	< 0.001	0.002	0.0006					
Metals - Suspended														
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	12	< 0.0003	0.0011	0.0002					
Metals - Total														
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015					
Arsenic	mg/L	0.002	0.003	0.002	0.001	12	0.001	0.003	0.0018					
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05					

Powertech (USA) Inc. Hydro ID		706				Summary Statistics							
Month Sampled		Sep-10	Oct-10	Nov-10	Dec-10								
Date Collected		9/28/2010	10/25/2010	11/15/2010	12/14/2010								
Time Collected													
Lab ID		R10090519 -002	R10100355 -002	R10110179 -002	R10120179 -002								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	0.03	0.06	0.04	0.04	12	< 0.03	0.15	0.042				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.57	0.56	0.59	0.52	12	0.5	0.59	0.556				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0006				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	2.3	2	2.3	2.2	12	2	2.5	2.32				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.009	0.009	0.01	0.008	12	0.008	0.0098	0.0086				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	20.5	19.3	24.5	18.2	12	11.2	56.3	29.6				
Gross Beta	pCi/L	21.3	25.8	21.1	22.4	12	18.3	32.7	23.88				
Lead 210	pCi/L	1.5 (2)*	0.1 (1.4)*	-0.08 (1.4)*	-0.8 (1.4)*	12	-2	2.2	0.14				
Polonium 210	pCi/L	-0.08 (1.4)*	-0.01 (0.54)*	-0.01 (0.53)*	0.1 (0.62)*	12	-0.075	0.23	0.018				
Radium 226	pCi/L	2	2.2	2.4	2.5	12	1.9	4.3	2.58				
Thorium 230	pCi/L	0.01 (0.1)*	0 (0.1)*	0.03 (0.1)*	0.04 (0.1)*	12	-0.02	0.8	0.07				
Gross Gamma	pCi/L	470	490	490	162.4 (*)	11	< 20	1300	650				
Radionuclides - Suspended													
Lead 210	pCi/L	-0.6 (1.5)*	1.5 (3.1)*	2.5 (3.3)*	0.3 (2.5)*	12	-2	2.6	0.42				
Polonium 210	pCi/L	-0 (0.22)*	0.08 (0.51)*	-0.03 (0.66)*	0 (0.66)*	12	-0.096	0.14	0.029				
Radium 226	pCi/L	-0.02 (0.05)*	0.2	0.1 (0.1)*	-0.1 (0.4)*	12	-0.2	0.6	0.04				
Thorium 230	pCi/L	0.05 (0.08)*	-0.1 (0.3)*	-0.2 (0.2)*	-0.1 (0.2)*	12	-0.2	0.1	-0.07				
Radionuclides - Total													
Radon 222	pCi/L	300	254	683	241	12	241	683	336.6				
Data Quality													
A/C Balance (± 5)	%	-0.4	2.02	-2.58	-0.56	12	-2.58	2.25	-0.261				
Anions	meq/L	18.4	17.6	18.6	18.4	12	17.6	19.1	18.33				
Cations	meq/L	18.3	18.3	17.6	18.2	12	17.6	18.8	18.23				
Solids, Total Dissolved Calculated	mg/L	1190	1190	1180	1190	12	1150	1540	1217				
TDS Balance (0.80 - 1.20)	dec. %	1	1.03	1.01	0.99	12	0.93	1.09	1.014				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		3026							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/28/2008	6/24/2008	7/13/2008	8/19/2008	9/23/2008	10/20/2008
Time Collected		6:45 PM	2:30 PM	3:15 PM	8:06 PM	3:28 PM	4:25 PM	11:25 AM	1:15 PM
Lab ID		R08030315	R08040287	R08050406	R08060427	R08070220	R08080301	R08090356	R08100295
		-009	-003	-003	-006	-001	-001	-008	-007
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Water Level Elevation	ft AMSL	3682	3682	3682	3682	3682	3681	NM	3682
Field Temperature	°C	10.89	12	12.03	12.41	12.36	12.37	NM	12.2
Field pH	s.u.	10.79	8.95	6.91	6.58	6.5	6.09	NM	6.8
Field Dissolved Oxygen	mg/L	3.83	NM	NM	0.15	0.17	0.71	NM	NM
Field Conductivity	umhos/cm	2250	2818	2821	3069	3098	2843	NM	2700
Field Turbidity	NTU	19.9	17.5	1.2	5	10.7	9.1	NM	NM
Physical Properties									
Conductivity @ 25 C	umhos/cm	2770	2730	2610	2970	3070	3480	1040	2660
Oxidation-Reduction Potential	mV	200	240	210	85	-15.5	130	150	210
pH	s.u.	7.63	8.49	6.95	6.82	6.57	7.07	7.93	7.12
Sodium Adsorption Ratio (SAR)	unitless	3.7	3.6	2.4	1.8	1.8	1.7	7.3	2.1
Solids, Total Dissolved TDS @ 180 C	mg/L	2300	2300	2400	2700	2800	2800	880	1700
Major Ions									
Alkalinity, Total as CaCO3	mg/L	130	126	166	172	184	208	174	194
Carbonate as CO3	mg/L	< 5	10	< 5	< 5	< 5	< 5	< 5	< 5
Bicarbonate as HCO3	mg/L	158	134	202	210	224	254	212	236
Calcium	mg/L	284	331	407	461	466	499	46.4	331
Chloride	mg/L	37	16	15	15	15	15	12	17
Fluoride	mg/L	0.6	0.4	0.4	0.4	0.5	0.4	0.5	0.3
Magnesium	mg/L	67.9	86.8	105	137	138	152	17.3	104
Nitrogen, Ammonia as N	mg/L	1.2	0.8	0.7	0.6	0.7	0.6	0.2	0.4
Nitrogen, Nitrate as N	mg/L	0.1	0.09	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Potassium	mg/L	21.3	23.7	25.3	22.3	30.6	21.9	7.6	19
Sodium	mg/L	271	284	209	171	168	172	229	168
Sulfate	mg/L	1470	1520	1480	1790	1700	1870	514	1360
Silica	mg/L	5.7	2.1	2.3	1.9	1.4	2.2	< 0.5	9.9
Metals - Dissolved									
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Arsenic	mg/L	0.004	0.012	0.002	< 0.001	0.016	0.017	< 0.001	0.002
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron	mg/L	< 0.1	< 0.1	0.2	0.2	0.1	0.2	< 0.1	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.1	2.67	0.23	0.04	21.2	25.4	< 0.03	3.36
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.42	0.36	0.82	1.42	1.47	1.6	0.07	0.92
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	0.006	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/L	0.015	0.015	0.028	0.018	0.013	0.011	0.003	0.005
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Zinc	mg/L	< 0.01	0.01	< 0.01	< 0.01	0.01	0.02	< 0.01	< 0.01
Metals - Dissolved - Speciated									
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Selenium-VI	mg/L	0.006	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Metals - Suspended									
Uranium	mg/L	0.004	0.001	0.001	0.002	< 3E-04	< 3E-04	< 3E-04	< 3E-04
Metals - Total									
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	0.023	0.022	0.028	0.025	0.044	0.022	0.001	0.01
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Powertech (USA) Inc. Hydro ID		3026							
Month Sampled		Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Date Collected		3/30/2008	4/22/2008	5/28/2008	6/24/2008	7/13/2008	8/19/2008	9/23/2008	10/20/2008
Time Collected		6:45 PM	2:30 PM	3:15 PM	8:06 PM	3:28 PM	4:25 PM	11:25 AM	1:15 PM
Lab ID		R08030315 -009	R08040287 -003	R08050406 -003	R08060427 -006	R08070220 -001	R08080301 -001	R08090356 -008	R08100295 -007
Analyte	Units	Result	Result	Result	Result	Result	Result	Result	Result
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	< 0.1	< 0.1	0.1	0.2	0.3	0.1	< 0.1	0.2
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Iron	mg/L	1.75	5.38	11.1	21.8	22	25.8	0.16	14.3
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Manganese	mg/L	0.13	0.46	0.87	1.46	1.57	1.64	0.08	1.01
Mercury	mg/L	< 0.001	< 0.001	< 1E-04	< 2E-04	< 2E-04	< 0.001	< 0.001	< 0.001
Molybdenum	mg/L	0.3	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	mg/L	0.007	0.002	< 0.001	0.005	< 0.001	0.001	< 0.001	< 0.001
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strontium	mg/L	4.8	6.3	7	7.4	7.7	7.2	0.9	5.9
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium	mg/L	0.01	0.02	0.032	0.022	0.015	0.011	0.003	0.006
Zinc	mg/L	< 0.01	0.01	0.01	0.01	0.03	0.02	< 0.01	< 0.01
Radionuclides - Dissolved									
Gross Alpha	pCi/L	47.6	43.8	92.4	116	80.1	77.5	15.9	36
Gross Beta	pCi/L	21.1	24.4	28.3	33.9	32.6	30.2	1.8 (16.8)*	20.2
Lead 210	pCi/L	< 1	0 (1)*	-0.7 (8.2)*	-5.3 (11.4)*	3.1 (9.2)*	2.1 (10.7)*	1.5 (9)*	-1 (6.1)*
Polonium 210	pCi/L	0.4 (1)*	0.2 (1)*	0 (1)*	0.2 (1)*	0.2 (1)*	0.2 (1)*	0 (1)*	0 (1)*
Radium 226	pCi/L	3.6	2.8	9.6	4.7	10.1	9.5	5.9	3.5
Thorium 230	pCi/L	0 (0.2)*	0.1 (0.2)*	0.1 (0.2)*	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	0 (0.2)*	0.1 (0.2)*
Gross Gamma	pCi/L	0 (20)*	0 (20)*	0 (20)*	0 (20)*	1000	840	0 (0)*	840
Radionuclides - Suspended									
Lead 210	pCi/L	-3 (1)*	-8.2 (1)*	4 (17.7)*	6.9 (7.4)*	-10 (21.4)*	-5 (17.8)*	4.4 (9.2)*	-3 (6.8)*
Polonium 210	pCi/L	1.9	0 (1)*	-0.1 (1)*	0.2 (1)*	0.1 (1)*	0 (1)*	0 (0)*	0.2 (1)*
Radium 226	pCi/L	3.3	0.1 (0.4)*	1.2	-0.1 (0.4)*	-0.2 (0.6)*	-0.3 (0.5)*	-0.06 (0.4)*	-0.8 (1)*
Thorium 230	pCi/L	1	0.3	0.2 (0.2)*	0 (0.2)*	0 (0.2)*	0 (0.2)*	0.3	-0.1 (0.2)*
Radionuclides - Total									
Radon 222	pCi/L	440	304	213	950	560	836	1820	254
Data Quality									
A/C Balance (± 5)	%	-2.96	3.12	5.9	1.44	5.04	3.22	-2.1	0.62
Anions	meq/L	34.2	34.6	34.5	41.2	39.4	43.6	14.5	32.7
Cations	meq/L	32.2	36.8	38.8	42.4	43.6	46.5	13.9	33.1
Solids, Total Dissolved Calculated	mg/L	2240	2340	2340	2710	2630	2860	931	2140
TDS Balance (0.80 - 1.20)	dec. %	1.03	0.99	1.03	1.01	1.06	0.98	0.95	0.78



Powertech (USA) Inc. Hydro ID		3026				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		11:19 AM	12:46 PM	2:25 PM	11:35 AM								
Lab ID		R08110211 -007	R08120255 -004	R09010301 -010	R09020293 -003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	3682	3682	3682	3682	11	3681.4	3682.3	3681.8				
Field Temperature	°C	12.3	11.1	11.2	11.9	11	10.89	12.41	11.887				
Field pH	s.u.	6.72	6.74	7.04	6.76	11	6.09	10.79	7.262				
Field Dissolved Oxygen	mg/L	NM	NM	NM	NM	4	0.15	3.83	1.215				
Field Conductivity	umhos/cm	2800	2700	2500	2700	11	2250	3098	2754.5				
Field Turbidity	NTU	NM	NM	NM	NM	6	1.2	19.9	10.57				
Physical Properties													
Conductivity @ 25 C	umhos/cm	2310	2490	2600	2510	12	1040	3480	2603				
Oxidation-Reduction Potential	mV	290	310	240	170	12	-15.5	310	185				
pH	s.u.	7.44	6.83	6.67	6.63	12	6.57	8.49	7.179				
Sodium Adsorption Ratio (SAR)	unitless	2	1.9	1.9	1.8	12	1.7	7.3	2.67				
Solids, Total Dissolved TDS @ 180 C	mg/L	2300	2300	2100	2300	12	880	2800	2240				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	184	180	174	176	12	126	208	172.3				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	12	< 5	10	3				
Bicarbonate as HCO3	mg/L	224	219	212	215	12	134	254	208.3				
Calcium	mg/L	375	377	350	334	12	46.4	499	355.1				
Chloride	mg/L	17	16	16	16	12	12	37	17.3				
Fluoride	mg/L	0.3	0.4	0.6	0.6	12	0.3	0.6	0.45				
Magnesium	mg/L	117	120	114	108	12	17.3	152	105.6				
Nitrogen, Ammonia as N	mg/L	0.5	0.5	0.5	0.4	12	0.2	1.2	0.59				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.06				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.05	< 0.1	0.05				
Potassium	mg/L	19.3	19.7	20.6	17.5	12	7.6	30.6	20.73				
Sodium	mg/L	170	164	161	147	12	147	284	192.8				
Sulfate	mg/L	1370	1290	1310	1390	12	514	1870	1422				
Silica	mg/L	9.1	9.6	8.5	8.1	12	< 0.5	9.9	5.09				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.002	0.002	0.001	0.001	12	< 0.001	0.017	0.005				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Boron	mg/L	0.2	0.2	< 0.1	0.2	12	< 0.1	0.2	0.14				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	3.59	6.93	6.85	2.98	12	< 0.03	25.4	6.11				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	1.04	1.18	1.16	1.1	12	0.07	1.6	0.96				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.2	0.07				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.006	0.001				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.005	0.005	0.004	0.002	12	0.0022	0.0281	0.0102				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	0.02	< 0.01	12	< 0.01	0.02	0.008				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	0.006	0.001				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 9E-04	3E-04	< 3E-04	12	< 0.0003	0.004	0.0008				
Metals - Total													
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	12	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	0.006	0.009	0.01	0.006	12	0.001	0.044	0.0172				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	< 0.1	0.05				



Powertech (USA) Inc. Hydro ID		3026				Summary Statistics							
Month Sampled		Nov-08	Dec-08	Jan-09	Feb-09								
Date Collected		11/18/2008	12/17/2008	1/20/2009	2/24/2009								
Time Collected		11:19 AM	12:46 PM	2:25 PM	11:35 AM								
Lab ID		R08110211 -007	R08120255 -004	R09010301 -010	R09020293 -003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Boron	mg/L	0.2	0.2	0.2	0.2	12	< 0.1	0.3	0.15				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	< 0.01	0.005				
Iron	mg/L	14.5	17	17	15.1	12	0.16	25.8	13.82				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Manganese	mg/L	1	1.08	1.2	1.35	12	0.08	1.64	0.988				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.0001	< 0.001	0.0004				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	12	< 0.1	0.3	0.08				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	12	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	0.003	< 0.001	12	< 0.001	0.007	0.0018				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	12	< 0.005	< 0.005	0.0025				
Strontium	mg/L	5.7	5.9	6	5.8	12	0.9	7.7	5.88				
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	12	< 0.001	< 0.001	0.0005				
Uranium	mg/L	0.004	0.005	0.005	0.003	12	0.0025	0.0322	0.0111				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	12	< 0.01	0.03	0.01				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	19.7	23.9	51.6	15.4	12	15.4	116	51.7				
Gross Beta	pCi/L	3.4 (9.5)*	19	24.9	18.1	12	1.8	33.9	21.49				
Lead 210	pCi/L	-2 (4.4)*	2.3 (8)*	-0.9 (4.2)*	0.4 (2.7)*	12	< 1	3.1	0				
Polonium 210	pCi/L	0 (1)*	0.2 (1)*	0.05 (0.75)*	0.14 (0.65)*	12	0	0.4	0.13				
Radium 226	pCi/L	3.9	2.7	3.5	2.9	12	2.7	10.1	5.23				
Thorium 230	pCi/L	0 (0.2)*	0.1 (0.2)*	0 (0.2)*	-0.03 (0.3)*	12	-0.03	0.1	0.04				
Gross Gamma	pCi/L	0 (20)*	0 (1)*	1000	0 (1)*	12	0	1000	300				
Radionuclides - Suspended													
Lead 210	pCi/L	-2 (9)*	4 (10.4)*	-0.5 (8)*	2.9 (5.7)*	12	-10	6.9	-0.79				
Polonium 210	pCi/L	-0.03 (1)*	0 (1)*	-0.06 (0.75)*	0.1 (0.68)*	12	-0.1	1.9	0.19				
Radium 226	pCi/L	0.8	0.2 (0.4)*	0.6	0.1 (0.3)*	12	-0.8	3.3	0.4				
Thorium 230	pCi/L	-0.1 (0.2)*	0.1 (0.2)*	-0.1 (0.2)*	-0.07 (0.4)*	12	-0.1	1	0.1				
Radionuclides - Total													
Radon 222	pCi/L	505	355	295	484	12	213	1820	585				
Data Quality													
A/C Balance (± 5)	%	5.27	8.46	5.42	-0.59	12	-2.96	8.46	2.737				
Anions	meq/L	32.8	31	31.2	33	12	14.5	43.6	33.56				
Cations	meq/L	36.4	36.7	34.8	32.6	12	13.9	46.5	35.65				
Solids, Total Dissolved Calculated	mg/L	2210	2120	2100	2140	12	931	2860	2230				
TDS Balance (0.80 - 1.20)	dec. %	1.03	1.08	0.99	1.05	12	0.78	1.08	0.998				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		4002				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/27/2007	11/14/2007	2/12/2008	5/19/2008								
Time Collected		2:35 PM	11:45 AM	11:47 AM	1:00 PM								
Lab ID		R07090385 -003	R07110184 -002	R08020130 -004	R08050251 -003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	NM	NM	NM	NM	0	NM	NM	NM				
Field Temperature	°C	NM	11.21	8.34	12.08	3	8.34	12.08	10.543				
Field pH	s.u.	8.32	8.17	7.83	7.92	4	7.83	8.32	8.06				
Field Dissolved Oxygen	mg/L	0.43	NM	NM	1.39	2	0.43	1.39	0.91				
Field Conductivity	umhos/cm	747	1185	1230	1214	4	747	1230	1094				
Field Turbidity	NTU	NM	3.2	0.3	0.7	3	0.3	3.2	1.4				
Physical Properties													
Conductivity @ 25 C	umhos/cm	1190	1130	1230	1340	4	1130	1340	1223				
Oxidation-Reduction Potential	mV	NM	140	190	250	3	140	250	193				
pH	s.u.	7.81	7.65	7.83	8.02	4	7.65	8.02	7.828				
Sodium Adsorption Ratio (SAR)	unitless	NM	6.7	6.7	6.8	3	6.7	6.8	6.73				
Solids, Total Dissolved TDS @ 180 C	mg/L	820	850	830	790	4	790	850	823				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	140	140	138	144	4	138	144	140.5				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	171	171	168	176	4	168	176	171.5				
Calcium	mg/L	36.8	41.4	42.4	46.6	4	36.8	46.6	41.8				
Chloride	mg/L	7	7	7	6	4	6	7	6.8				
Fluoride	mg/L	0.3	0.4	0.4	0.4	4	0.3	0.4	0.38				
Magnesium	mg/L	11.9	13.9	14.2	15.8	4	11.9	15.8	13.95				
Nitrogen, Ammonia as N	mg/L	0.3	< 0.1	< 0.1	< 0.1	4	< 0.1	0.3	0.11				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	0.1	4	< 0.1	< 0.1	0.06				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	7.2	7.3	7.4	7.1	4	7.1	7.4	7.25				
Sodium	mg/L	170	197	198	211	4	170	211	194				
Sulfate	mg/L	454	448	470	450	4	448	470	456				
Silica	mg/L	6.6	7.6	7.3	3.8	4	3.8	7.6	6.33				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	< 0.03	< 0.03	< 0.03	4	< 0.03	< 0.03	0.015				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.08	0.08	0.08	0.08	4	0.08	0.08	0.08				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Selenium	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	4	< 0.001	< 0.005	0.001				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Uranium	mg/L	0.003	0.003	0.003	0.002	4	0.0023	0.0026	0.0025				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 0.0003	< 0.0003	0.0002				
Metals - Total													
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	NM	NM	< 0.001	0.002	2	< 0.001	0.002	0.0013				
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		4002				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/27/2007	11/14/2007	2/12/2008	5/19/2008								
Time Collected		2:35 PM	11:45 AM	11:47 AM	1:00 PM								
Lab ID		R07090385 -003	R07110184 -002	R08020130 -004	R08050251 -003								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Boron	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	< 0.005	< 0.001	2	< 0.001	< 0.005	0.0015				
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	2.23	2.29	2	2.23	2.29	2.26				
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Manganese	mg/L	NM	NM	0.08	0.08	2	0.08	0.08	0.08				
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 1E-04	4	< 0.0001	< 0.001	0.0003				
Molybdenum	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.0025				
Strontium	mg/L	NM	NM	0.8	0.9	2	0.8	0.9	0.85				
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Uranium	mg/L	NM	NM	0.003	0.003	2	0.0025	0.0025	0.0025				
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	120	227	314	127	4	120	314	197				
Gross Beta	pCi/L	45.5	87.9	101	30.1	4	30.1	101	66.1				
Gross Gamma	pCi/L	120	2200	650	210	4	120	2200	800				
Lead 210	pCi/L	2	6.2	< 1	-2.6 (16)*	4	< 1	6.2	1.53				
Polonium 210	pCi/L	< 1	< 1	2.1	0 (1)*	4	< 1	2.1	0.78				
Radium 226	pCi/L	63.6	54.2	57	52.3	4	52.3	63.6	56.78				
Thorium 230	pCi/L	0.5	< 0.2	0.2	0 (0.2)*	4	< 0.2	0.5	0.2				
Radionuclides - Suspended													
Lead 210	pCi/L	9.7	< 1	< 1	1.4 (8.8)*	4	< 1	9.7	3.03				
Polonium 210	pCi/L	< 1	< 1	< 1	0.1 (1)*	4	< 1	< 1	0.4				
Radium 226	pCi/L	< 0.2	NM	37	8.4	3	< 0.2	37	15.2				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1				
Radionuclides - Total													
Lead 210	pCi/L	12	NM	NM	NM	1	12	12	12				
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Radium 226	pCi/L	62.7	NM	NM	NM	1	62.7	62.7	62.7				
Radon 222	pCi/L	NM	8010	9890	8780	3	8010	9890	8893				
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality													
A/C Balance (± 5)	%	-4.1	-1.56	-2.61	2.11	4	-4.1	2.11	-1.54				
Anions	meq/L	11.3	12.3	12.8	12.4	4	11.3	12.8	12.2				
Cations	meq/L	10.4	12	12.1	13	4	10.4	13	11.9				
Solids, Total Dissolved Calculated	mg/L	716	799	842	834	4	716	842	797.8				
TDS Balance (0.80 - 1.20)	dec. %	1.15	1.06	0.98	0.94	4	0.94	1.15	1.033				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.



Powertech (USA) Inc. Hydro ID		7002				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/28/2007	11/12/2007	2/20/2008	5/29/2008								
Time Collected		5:48 PM	8:10 AM	8:30 AM	10:44 AM								
Lab ID		R07100002-008	R07110146-001	R08020220-001	R08050419-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Field Parameters													
Water Level Elevation	ft AMSL	NM	NM	NM	NM	0	NM	NM	NM				
Field Temperature	°C	11.99	11.37	11.02	12.03	4	11.02	12.03	11.603				
Field pH	s.u.	6.99	7.89	7.19	7.5	4	6.99	7.89	7.393				
Field Dissolved Oxygen	mg/L	NM	1.11	1.21	NM	2	1.11	1.21	1.16				
Field Conductivity	umhos/cm	1815	2275	2113	2258	4	1815	2275	2115.3				
Field Turbidity	NTU	NM	1.9	0.7	2.2	3	0.7	2.2	1.6				
Physical Properties													
Conductivity @ 25 C	umhos/cm	2200	2210	2420	2480	4	2200	2480	2328				
Oxidation-Reduction Potential	mV	NM	190	170	230	3	170	230	197				
pH	s.u.	7.29	7.22	7.56	7.36	4	7.22	7.56	7.358				
Sodium Adsorption Ratio (SAR)	unitless	NM	2.7	2.4	2.6	3	2.4	2.7	2.57				
Solids, Total Dissolved TDS @ 180 C	mg/L	1900	1900	1900	1800	4	1800	1900	1880				
Major Ions													
Alkalinity, Total as CaCO3	mg/L	280	250	260	254	4	250	280	261				
Carbonate as CO3	mg/L	< 5	< 5	< 5	< 5	4	< 5	< 5	2.5				
Bicarbonate as HCO3	mg/L	341	305	317	310	4	305	341	318.3				
Calcium	mg/L	206	237	213	264	4	206	264	230				
Chloride	mg/L	10	11	9	9	4	9	11	9.8				
Fluoride	mg/L	0.2	0.2	0.5	0.3	4	0.2	0.5	0.3				
Magnesium	mg/L	77.7	90.4	81.7	103	4	77.7	103	88.2				
Nitrogen, Ammonia as N	mg/L	0.3	0.3	0.2	0.2	4	0.2	0.3	0.25				
Nitrogen, Nitrate as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nitrogen, Nitrite as N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Potassium	mg/L	19.9	22.2	21	21.7	4	19.9	22.2	21.2				
Sodium	mg/L	152	192	162	197	4	152	197	175.8				
Sulfate	mg/L	1160	1040	1080	1020	4	1020	1160	1075				
Silica	mg/L	7.3	8.2	7.8	3.4	4	3.4	8.2	6.68				
Metals - Dissolved													
Aluminum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Arsenic	mg/L	0.001	0.001	0.001	< 0.001	4	< 0.001	< 0.001	0.0009				
Barium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Cadmium	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Chromium	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Copper	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Iron	mg/L	< 0.03	0.25	0.28	0.06	4	< 0.03	0.28	0.151				
Lead	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005				
Manganese	mg/L	0.39	0.37	0.38	0.41	4	0.37	0.41	0.388				
Mercury	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	4	< 0.001	< 0.001	0.0005				
Molybdenum	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Nickel	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	4	< 0.05	< 0.05	0.025				
Selenium	mg/L	0.001	< 0.001	0.001	< 0.001	4	< 0.001	< 0.001	0.0008				
Silver	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Thorium 232	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	4	< 0.005	< 0.005	0.0025				
Uranium	mg/L	7E-04	6E-04	6E-04	5E-04	4	5E-04	0.0007	0.0006				
Vanadium	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	4	< 0.1	< 0.1	0.05				
Zinc	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	4	< 0.01	< 0.01	0.005				
Metals - Dissolved - Speciated													
Selenium-IV	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005				
Selenium-VI	mg/L	NM	< 0.001	< 0.001	< 0.001	3	< 0.001	< 0.001	0.0005				
Metals - Suspended													
Uranium	mg/L	< 3E-04	< 3E-04	< 3E-04	< 3E-04	4	< 3E-04	< 0.0003	0.0002				
Metals - Total													
Antimony	mg/L	NM	NM	< 0.003	< 0.003	2	< 0.003	< 0.003	0.0015				
Arsenic	mg/L	NM	NM	0.001	0.004	2	0.001	0.004	0.0025				
Barium	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				

Powertech (USA) Inc. Hydro ID		7002				Summary Statistics							
Month Sampled		3Q07	4Q07	1Q08	2Q08								
Date Collected		9/28/2007	11/12/2007	2/20/2008	5/29/2008								
Time Collected		5:48 PM	8:10 AM	8:30 AM	10:44 AM								
Lab ID		R07100002-008	R07110146-001	R08020220-001	R08050419-001								
Analyte	Units	Result	Result	Result	Result	n	Minimum	Maximum	Mean**				
Beryllium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Boron	mg/L	NM	NM	< 0.1	< 0.1	2	< 0.1	< 0.1	0.05				
Cadmium	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.0025				
Chromium	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Copper	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Iron	mg/L	NM	NM	1.25	1.32	2	1.25	1.32	1.285				
Lead	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Manganese	mg/L	NM	NM	0.37	0.4	2	0.37	0.4	0.39				
Mercury	mg/L	< 2E-04	< 0.001	< 0.001	< 1E-04	4	< 1E-04	< 0.001	0.0003				
Molybdenum	mg/L	NM	NM	< 0.01	< 0.1	2	< 0.01	< 0.1	0.03				
Nickel	mg/L	NM	NM	< 0.05	< 0.05	2	< 0.05	< 0.05	0.025				
Selenium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Silver	mg/L	NM	NM	< 0.005	< 0.005	2	< 0.005	< 0.005	0.0025				
Strontium	mg/L	NM	NM	6.6	7.7	2	6.6	7.7	7.15				
Thallium	mg/L	NM	NM	< 0.001	< 0.001	2	< 0.001	< 0.001	0.0005				
Uranium	mg/L	NM	NM	5E-04	6E-04	2	5E-04	0.0006	0.0006				
Zinc	mg/L	NM	NM	< 0.01	< 0.01	2	< 0.01	< 0.01	0.005				
Radionuclides - Dissolved													
Gross Alpha	pCi/L	45.6	39.8	91.4	29.5	4	29.5	91.4	51.58				
Gross Beta	pCi/L	29.7	34.1	41.4	28.4	4	28.4	41.4	33.4				
Gross Gamma	pCi/L	1200	1600	370	0 (20)*	4	0	1600	790				
Lead 210	pCi/L	< 1	< 1	13	-0.6 (5.9)*	4	< 1	13	3.4				
Polonium 210	pCi/L	1.3	4.1	< 1	0.1 (1)*	4	< 1	4.1	1.5				
Radium 226	pCi/L	8.5	8.1	8.8	8	4	8	8.8	8.35				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0.1 (0.2)*	4	< 0.2	< 0.2	0.1				
Radionuclides - Suspended													
Lead 210	pCi/L	< 1	< 1	7.9	-1.1 (17.7)*	4	< 1	7.9	1.95				
Polonium 210	pCi/L	< 1	< 1	< 1	0.2 (1)*	4	< 1	< 1	0.4				
Radium 226	pCi/L	< 0.2	< 0.2	< 0.9	0 (0.6)*	4	< 0.2	< 0.9	0.16				
Thorium 230	pCi/L	< 0.2	< 0.2	< 0.2	0 (0.2)*	4	< 0.2	< 0.2	0.08				
Radionuclides - Total													
Lead 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Polonium 210	pCi/L	< 1	NM	NM	NM	1	< 1	< 1	0.5				
Radium 226	pCi/L	6.3	NM	NM	NM	1	6.3	6.3	6.3				
Radon 222	pCi/L	NM	938	752	1270	3	752	1270	987				
Thorium 230	pCi/L	< 0.2	NM	NM	NM	1	< 0.2	< 0.2	0.1				
Data Quality													
A/C Balance (± 5)	%	-4.65	2.47	-5.62	7.56	4	-5.62	7.56	-0.06				
Anions	meq/L	26.3	26.9	28	26.5	4	26.3	28	26.9				
Cations	meq/L	23.9	28.2	25	30.9	4	23.9	30.9	27				
Solids, Total Dissolved Calculated	mg/L	1620	1750	1750	1780	4	1620	1780	1725				
TDS Balance (0.80 - 1.20)	dec. %	1.19	1.09	1.07	1.03	4	1.03	1.19	1.095				

NM - not measured

* Value shown detected below reporting limit. Reporting limit provided in parenthesis.

** 1/2 RL used to calculate the mean where non-detect data occurred.