United States Nuclear Regulatory Commission Official Hearing Exhibit			
In the Matter of:	POWERTECH USA, INC. (Dewey-Burdock In Situ Uranium Recovery Facility)		
	ASLBP #: 10-898-02-MLA-BD01 **Docket #:** 04009075 **Exhibit #:** APP-015-O-00-BD01 **Admitted:** 8/19/2014 **Rejected:** **Other:**	**Identified:** 8/19/2014 **Withdrawn:** **Stricken:**	

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-001
Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Calcium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Chloride	ND	mg/L		1		1	E300.0	11/20/08 18:36/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Potassium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	12/10/08 16:24/eli-c
Sulfate	ND	mg/L		1		1	E300.0	11/20/08 18:36/jmh
Silica	ND	mg/L		0.2		2	E200.7	12/10/08 16:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	11/25/08 15:29/tb
Oxidation-Reduction Potential	330	mV				1	A2580 B	11/25/08 16:00/jmh
pH	4.84	s.u.		0.01		1	A4500-H B	11/25/08 14:43/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	64	mg/L		5		1	A2540 C	11/21/08 11:26/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 02:51/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: R08110211-001
Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 19:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:02/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.6	pCi/L	U			1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha MDC	1.0	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta	-2	pCi/L	U			1	E900.0	12/24/08 01:10/eli-cα
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta MDC	2.6	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Lead 210	-0.2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.39	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	12/16/08 23:17/eli-cα
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.035	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-001
Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	222	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.8	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 06:34/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/05/08 06:34/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 06:34/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 06:34/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 22:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 06:34/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 06:34/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 06:34/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	12/10/08 22:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 06:34/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/05/08 06:34/eli-c
Mercury	ND	mg/L		0.001		1	0	11/24/08 12:14/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 06:34/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 06:34/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 06:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 13:22/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	12/05/08 06:34/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 06:34/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/05/08 06:34/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 06:34/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-002
Client Sample ID: DewBurd GW696

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Calcium	30.9	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Chloride	13	mg/L		1		1	E300.0	11/20/08 19:25/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Potassium	9.1	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Sodium	293	mg/L	D	2		2	E200.7	12/10/08 16:36/eli-c
Sulfate	476	mg/L	D	3		50	E300.0	11/21/08 03:37/jmh
Silica	9.9	mg/L		0.2		2	E200.7	12/10/08 16:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	11/25/08 15:31/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	11/25/08 14:44/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	11/21/08 11:27/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:40/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 02:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:40/eli-c

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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: R08110211-002
Client Sample ID: DewBurd GW696

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 19:40/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:09/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.9	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha MDC	4.4	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta	9.0	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Lead 210	0.0	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	0.8	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.11	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 15:28/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-002
Client Sample ID: DewBurd GW696

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	222	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.9	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 06:41/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/05/08 06:41/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 06:41/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 06:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 22:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 06:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 06:41/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 06:41/eli-c
Iron	0.14	mg/L		0.03		2	E200.7	12/10/08 22:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 06:41/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/05/08 06:41/eli-c
Mercury	ND	mg/L		0.001		1	0	11/24/08 12:16/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 06:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 06:41/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 06:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 13:29/eli-c
Strontium	0.7	mg/L		0.1		1	E200.8	12/05/08 06:41/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 06:41/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/05/08 06:41/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 06:41/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.40	%				1	A1030 E	01/29/09 00:00/jmh
Anions	13.8	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	967	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.820					1	A1030 E	01/29/09 00:00/jmh

Report Definitions:
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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: R08110211-003
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Calcium	101	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Chloride	9	mg/L		1		1	E300.0	11/20/08 19:41/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Magnesium	36.2	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Potassium	13.3	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Sodium	184	mg/L	D	2		2	E200.7	12/10/08 16:44/eli-c
Sulfate	484	mg/L	D	3		50	E300.0	11/21/08 04:27/jmh
Silica	9.3	mg/L		0.2		2	E200.7	12/10/08 16:44/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	11/25/08 15:32/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	11/25/08 14:45/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5		1	A2540 C	11/21/08 11:31/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:47/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/03/08 19:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:47/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: R08110211-003
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/03/08 19:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 19:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:15/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.2	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Alpha MDC	4.4	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta	5.9	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta MDC	4.7	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Lead 210	-0.1	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.7	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.040	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 15:28/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-003
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	331	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.4	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 06:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/05/08 06:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 06:47/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 06:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 22:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 06:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 06:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 06:47/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	12/10/08 22:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 06:47/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/05/08 06:47/eli-c
Mercury	ND	mg/L		0.001		1	0	11/24/08 12:19/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 06:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 06:47/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 06:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 13:35/eli-c
Strontium	2.6	mg/L		0.1		1	E200.8	12/05/08 06:47/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 06:47/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/05/08 06:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 06:47/eli-c
DATA QUALITY								
A/C Balance (± 5)	7.92	%				1	A1030 E	01/29/09 00:00/jmh
Anions	14.0	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	16.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	962	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	01/29/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-004
Client Sample ID: DewBurd GW688

Report Date: 01/29/09
Collection Date: 11/18/08 10:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	146	mg/L		5		1	A2320 B	11/25/08 11:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:26/mb
Bicarbonate as HCO3	178	mg/L		5		1	A2320 B	11/25/08 11:26/mb
Calcium	51.2	mg/L		0.5		2	E200.7	12/10/08 16:48/eli-c
Chloride	12	mg/L		1		1	E300.0	11/20/08 19:58/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/08 19:58/jmh
Magnesium	21.0	mg/L		0.5		2	E200.7	12/10/08 16:48/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:58/jmh
Potassium	12.5	mg/L		0.5		2	E200.7	12/10/08 16:48/eli-c
Sodium	202	mg/L	D	2		2	E200.7	12/10/08 16:48/eli-c
Sulfate	421	mg/L	D	3		50	E300.0	11/21/08 05:16/jmh
Silica	8.7	mg/L		0.2		2	E200.7	12/10/08 16:48/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1140	umhos/cm		5.0		1	A2510 B	11/25/08 15:33/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.19	s.u.		0.01		1	A4500-H B	11/25/08 14:47/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	11/21/08 11:32/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 20:07/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 20:07/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 20:07/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 20:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 20:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 20:07/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 20:07/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/03/08 20:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 20:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 20:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 20:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 20:07/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-004
Client Sample ID: DewBurd GW688

Report Date: 01/29/09
Collection Date: 11/18/08 10:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 20:07/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 20:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 20:07/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.0	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha MDC	3.8	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta	17.4	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta MDC	3.6	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Lead 210	1.1	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	2.7	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-5	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.061	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 15:28/eli-c

Report Definitions:
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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: R08110211-004
Client Sample ID: DewBurd GW688

Report Date: 01/29/09
Collection Date: 11/18/08 10:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	162	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	81.3	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/08/08 19:34/eli-c
Arsenic	0.006	mg/L	D	0.005		1	E200.8	12/13/08 00:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/08/08 19:34/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/08/08 19:34/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/12/08 19:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/08/08 19:34/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/08/08 19:34/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/08/08 19:34/eli-c
Iron	0.34	mg/L		0.03		2	E200.7	12/12/08 19:38/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/08/08 19:34/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/08/08 19:34/eli-c
Mercury	ND	mg/L		0.001		1	0	11/24/08 12:21/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/08/08 19:34/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/08/08 19:34/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	12/08/08 19:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 19:34/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	12/08/08 19:34/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/08/08 19:34/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/08/08 19:34/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	12/12/08 19:38/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.50	%				1	A1030 E	01/29/09 00:00/jmh
Anions	12.0	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	13.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	831	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	01/29/09 00:00/jmh

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	250	mg/L		5		1	A2320 B	11/25/08 11:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:28/mb
Bicarbonate as HCO3	305	mg/L		5		1	A2320 B	11/25/08 11:28/mb
Calcium	389	mg/L		0.5		2	E200.7	12/10/08 16:52/eli-c
Chloride	14	mg/L		1		1	E300.0	11/20/08 20:14/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/20/08 20:14/jmh
Magnesium	123	mg/L		0.5		2	E200.7	12/10/08 16:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:17/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:14/jmh
Potassium	19.2	mg/L		0.5		2	E200.7	12/10/08 16:52/eli-c
Sodium	145	mg/L	D	2		2	E200.7	12/10/08 16:52/eli-c
Sulfate	1330	mg/L	D	3		50	E300.0	11/21/08 05:32/jmh
Silica	8.4	mg/L		0.2		2	E200.7	12/10/08 16:52/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2470	umhos/cm		5.0		1	A2510 B	11/25/08 15:34/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.86	s.u.		0.01		1	A4500-H B	11/25/08 14:51/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	11/21/08 11:33/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 20:14/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 20:14/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 20:14/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	12/10/08 16:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 20:14/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 20:14/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 20:14/eli-c
Iron	0.12	mg/L		0.03		2	E200.7	12/10/08 16:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 20:14/eli-c
Manganese	0.43	mg/L		0.01		1	E200.8	12/03/08 20:14/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 20:14/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 20:14/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 20:14/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:51/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 20:14/eli-c

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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: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0196	mg/L		0.0003		1	E200.8	12/03/08 20:14/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 20:14/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 20:14/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4410	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Alpha precision (±)	69.5	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Alpha MDC	10.2	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta	1840	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta precision (±)	24.8	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Gross Beta MDC	13.8	pCi/L				1	E900.0	12/24/08 01:10/eli-cə
Lead 210	9.3	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.7	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.63	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1430	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 precision (±)	6.7	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1200	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	86	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.5	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.88	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.66	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	1.7	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	86200	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	453	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:20/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/05/08 07:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:20/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:20/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	12/10/08 22:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:20/eli-c
Iron	0.28	mg/L		0.03		2	E200.7	12/10/08 22:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:20/eli-c
Manganese	0.43	mg/L		0.01		1	E200.8	12/05/08 07:20/eli-c
Mercury	ND	mg/L		0.001		1	0	11/24/08 12:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:20/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 13:42/eli-c
Strontium	7.0	mg/L		0.1		1	E200.8	12/05/08 07:20/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:20/eli-c
Uranium	0.0174	mg/L		0.0003		1	E200.8	12/05/08 07:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.57	%				1	A1030 E	01/29/09 00:00/jmh
Anions	33.2	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	36.3	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2200	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	01/29/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-006
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:05
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Calcium	99.7	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Chloride	9	mg/L		1		1	E300.0	11/20/08 20:30/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Magnesium	35.6	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Potassium	13.3	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Sodium	182	mg/L	D	2		2	E200.7	12/10/08 16:56/eli-c
Sulfate	505	mg/L	D	3		50	E300.0	11/21/08 05:49/jmh
Silica	9.1	mg/L		0.2		2	E200.7	12/10/08 16:56/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	11/25/08 15:36/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.27	s.u.		0.01		1	A4500-H B	11/25/08 14:52/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	11/21/08 11:33/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 20:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 20:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 20:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 20:21/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: R08110211-006
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:05
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/03/08 20:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	12.1	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Alpha MDC	4.5	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta	13.5	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta precision (±)	3.1	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Gross Beta MDC	4.7	pCi/L				1	E900.0	12/24/08 01:10/eli-cα
Lead 210	-2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.5	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.082	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 15:28/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.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-006
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:05
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	309	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	84.0	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:27/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/05/08 07:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:27/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:27/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 22:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:27/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	12/10/08 22:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:27/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/05/08 07:27/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 08:46/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:27/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:15/eli-c
Strontium	2.6	mg/L		0.1		1	E200.8	12/05/08 07:27/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:27/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/05/08 07:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:27/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.19	%				1	A1030 E	01/29/09 00:00/jmh
Anions	14.9	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	16.2	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	994	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	01/29/09 00:00/jmh

Report Definitions:
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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-007
Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
Collection Date: 11/18/08 11:19
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	11/25/08 11:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:41/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	11/25/08 11:41/mb
Calcium	375	mg/L		0.5		2	E200.7	12/10/08 17:00/eli-c
Chloride	17	mg/L		1		1	E300.0	11/20/08 20:47/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/08 20:47/jmh
Magnesium	117	mg/L		0.5		2	E200.7	12/10/08 17:00/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:47/jmh
Potassium	19.3	mg/L		0.5		2	E200.7	12/10/08 17:00/eli-c
Sodium	170	mg/L	D	2		2	E200.7	12/10/08 17:00/eli-c
Sulfate	1370	mg/L	D	3		50	E300.0	11/21/08 06:05/jmh
Silica	9.1	mg/L		0.2		2	E200.7	12/10/08 17:00/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2310	umhos/cm		5.0		1	A2510 B	11/25/08 15:37/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.44	s.u.		0.01		1	A4500-H B	11/25/08 14:53/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	11/21/08 11:34/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 20:27/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 20:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 20:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/10/08 17:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 20:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 20:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 20:27/eli-c
Iron	3.59	mg/L		0.03		2	E200.7	12/10/08 17:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 20:27/eli-c
Manganese	1.04	mg/L		0.01		1	E200.8	12/03/08 20:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 20:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 20:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 20:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 20:27/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-007
Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
Collection Date: 11/18/08 11:19
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0048	mg/L		0.0003		1	E200.8	12/03/08 20:27/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 20:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 20:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	19.7	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha precision (±)	6.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha MDC	9.1	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta	3.4	pCi/L	U			1	E900.0	12/24/08 13:29/eli-cə
Gross Beta precision (±)	5.7	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta MDC	9.5	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Lead 210	-2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.16	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	3.9	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.031	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.8	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-007
Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
Collection Date: 11/18/08 11:19
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	505	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	85.3	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:33/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/10/08 22:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
Iron	14.5	mg/L		0.03		2	E200.7	12/10/08 22:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Manganese	1.00	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 08:57/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:22/eli-c
Strontium	5.7	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Uranium	0.0044	mg/L		0.0003		1	E200.8	12/05/08 07:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.27	%				1	A1030 E	01/29/09 00:00/jmh
Anions	32.8	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	36.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2210	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	01/29/09 00:00/jmh

Report Definitions:
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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: R08110211-008
Client Sample ID: DewBurd GW698

Report Date: 01/29/09
Collection Date: 11/18/08 12:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	112	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Bicarbonate as HCO3	137	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Calcium	388	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Chloride	10	mg/L		1		1	E300.0	11/20/08 21:03/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Magnesium	141	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Sodium	86	mg/L	D	2		2	E200.7	12/10/08 17:49/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	11/21/08 06:21/jmh
Silica	11.1	mg/L		0.2		2	E200.7	12/10/08 17:49/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2300	umhos/cm		5.0		1	A2510 B	11/25/08 15:38/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.42	s.u.		0.01		1	A4500-H B	11/25/08 14:54/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	11/21/08 11:34/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	12/10/08 17:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
Iron	2.54	mg/L		0.03		2	E200.7	12/10/08 17:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Manganese	2.25	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:01/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 04:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:01/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: R08110211-008
Client Sample ID: DewBurd GW698

Report Date: 01/29/09
Collection Date: 11/18/08 12:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.106	mg/L		0.0003		1	E200.8	12/03/08 21:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
METALS - SUSPENDED								
Uranium	0.0042	mg/L		0.0003		1	E200.8	12/11/08 02:16/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:53/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1680	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha precision (±)	40.3	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha MDC	8.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta	619	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta precision (±)	12.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta MDC	9.4	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Lead 210	1.4	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	403	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 precision (±)	3.6	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cə
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1700	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	1.6	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.98	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	9.0	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-008
Client Sample ID: DewBurd GW698

Report Date: 01/29/09
Collection Date: 11/18/08 12:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	37400	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	303	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/09/08 22:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/08/08 14:29/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/09/08 22:05/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/08/08 14:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/12/08 19:46/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/09/08 22:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/08/08 14:29/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/09/08 22:05/eli-c
Iron	4.42	mg/L		0.03		2	E200.7	12/12/08 19:46/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/08/08 14:29/eli-c
Manganese	2.31	mg/L		0.01		1	E200.8	12/08/08 14:29/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 08:59/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/09/08 22:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/08/08 14:29/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/08/08 14:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:29/eli-c
Strontium	4.4	mg/L		0.1		1	E200.8	12/09/08 22:05/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/09/08 22:05/eli-c
Uranium	0.103	mg/L		0.0003		1	E200.8	12/09/08 22:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/09/08 22:05/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.79	%				1	A1030 E	01/29/09 00:00/jmh
Anions	30.9	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	35.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2100	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	01/29/09 00:00/jmh

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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-009
Client Sample ID: DewBurd GW695

Report Date: 01/29/09
Collection Date: 11/18/08 13:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Calcium	52.7	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Chloride	13	mg/L		1		1	E300.0	11/20/08 21:53/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Magnesium	19.0	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Potassium	8.7	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Sodium	253	mg/L	D	2		2	E200.7	12/10/08 17:53/eli-c
Sulfate	481	mg/L	D	3		50	E300.0	11/21/08 06:38/jmh
Silica	8.9	mg/L		0.2		2	E200.7	12/10/08 17:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	11/25/08 15:39/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.18	s.u.		0.01		1	A4500-H B	11/25/08 14:55/tb
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	11/21/08 11:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 17:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:08/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 17:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/03/08 21:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 17:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:08/eli-c

Report Definitions:
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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: R08110211-009
Client Sample ID: DewBurd GW695

Report Date: 01/29/09
Collection Date: 11/18/08 13:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0029	mg/L		0.0003		1	E200.8	12/03/08 21:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:08/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 02:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:55/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	19.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha MDC	4.4	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta	9.7	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta precision (±)	3.5	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta MDC	5.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Lead 210	0.3	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	4.8	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-cα
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.058	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-009
Client Sample ID: DewBurd GW695

Report Date: 01/29/09
Collection Date: 11/18/08 13:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2020	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	102	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:53/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/05/08 07:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:53/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:53/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	12/10/08 23:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:53/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/05/08 07:53/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:09/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:53/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:36/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	12/05/08 07:53/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:53/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/05/08 07:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:53/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.57	%				1	A1030 E	01/29/09 00:00/jmh
Anions	13.8	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	954	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	01/29/09 00:00/jmh

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-010
Client Sample ID: DewBurd GW697

Report Date: 01/29/09
Collection Date: 11/18/08 13:35
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	164	mg/L		5		1	A2320 B	11/25/08 11:46/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:46/mb
Bicarbonate as HCO3	200	mg/L		5		1	A2320 B	11/25/08 11:46/mb
Calcium	54.5	mg/L		0.5		2	E200.7	12/10/08 17:57/eli-c
Chloride	9	mg/L		1		1	E300.0	11/20/08 22:42/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/08 22:42/jmh
Magnesium	17.7	mg/L		0.5		2	E200.7	12/10/08 17:57/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:42/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	12/10/08 17:57/eli-c
Sodium	219	mg/L	D	2		2	E200.7	12/10/08 17:57/eli-c
Sulfate	430	mg/L	D	3		50	E300.0	11/21/08 06:54/jmh
Silica	9.3	mg/L		0.2		2	E200.7	12/10/08 17:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1180	umhos/cm		5.0		1	A2510 B	11/25/08 15:40/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.24	s.u.		0.01		1	A4500-H B	11/25/08 14:56/tb
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	11/21/08 11:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:15/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/03/08 21:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:15/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:15/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	12/10/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:15/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/03/08 21:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:15/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 17:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:15/eli-c

Report Definitions:
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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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-010
Client Sample ID: DewBurd GW697

Report Date: 01/29/09
Collection Date: 11/18/08 13:35
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 21:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:15/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 02:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	12.7	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha MDC	3.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta	11.4	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta MDC	3.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Lead 210	-0.8	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.7	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.0042	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-010
Client Sample ID: DewBurd GW697

Report Date: 01/29/09
Collection Date: 11/18/08 13:35
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	412	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.7	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:59/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:59/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	12/10/08 23:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:11/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:59/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:43/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/05/08 07:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.48	%				1	A1030 E	01/29/09 00:00/jmh
Anions	12.5	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	14.0	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	863	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	01/29/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-011
Client Sample ID: DewBurd GW689

Report Date: 01/29/09
Collection Date: 11/18/08 14:02
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Calcium	45.3	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Chloride	5	mg/L		1		1	E300.0	11/20/08 22:58/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Magnesium	15.7	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Potassium	7.6	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Sodium	179	mg/L	D	2		2	E200.7	12/10/08 18:01/eli-c
Sulfate	379	mg/L	D	3		50	E300.0	11/21/08 07:44/jmh
Silica	9.6	mg/L		0.2		2	E200.7	12/10/08 18:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	982	umhos/cm		5.0		1	A2510 B	11/25/08 15:43/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.45	s.u.		0.01		1	A4500-H B	11/25/08 14:58/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	660	mg/L		5		1	A2540 C	11/21/08 11:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:21/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: R08110211-011
Client Sample ID: DewBurd GW689

Report Date: 01/29/09
Collection Date: 11/18/08 14:02
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0033	mg/L		0.0003		1	E200.8	12/03/08 21:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 02:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:00/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	37.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Alpha MDC	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta	15.3	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Gross Beta MDC	3.5	pCi/L				1	E900.0	12/24/08 13:29/eli-cə
Lead 210	-1	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	6.6	pCi/L				1	E903.0	12/17/08 00:57/eli-cə
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	12/17/08 00:57/eli-cə
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-cə
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.039	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-011
Client Sample ID: DewBurd GW689

Report Date: 01/29/09
Collection Date: 11/18/08 14:02
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2580	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	108	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/08/08 19:41/eli-c
Arsenic	0.006	mg/L	D	0.005		1	E200.8	12/13/08 00:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/08/08 19:41/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/08/08 19:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/12/08 19:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/08/08 19:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/08/08 19:41/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/08/08 19:41/eli-c
Iron	0.56	mg/L		0.03		2	E200.7	12/12/08 19:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/08/08 19:41/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/08/08 19:41/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:14/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/08/08 19:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/08/08 19:41/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/08/08 19:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 19:41/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	12/08/08 19:41/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/08/08 19:41/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8	12/08/08 19:41/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	12/12/08 19:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.10	%				1	A1030 E	01/29/09 00:00/jmh
Anions	11.1	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	11.6	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	749	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.880					1	A1030 E	01/29/09 00:00/jmh

Report Definitions:
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MDC - Minimum detectable concentration
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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: R08110211-012
Client Sample ID: DewBurd GW681

Report Date: 01/29/09
Collection Date: 11/18/08 13:55
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Calcium	64.7	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Chloride	16	mg/L		1		1	E300.0	11/20/08 23:15/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Magnesium	24.5	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Potassium	9.7	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Sodium	218	mg/L	D	2		2	E200.7	12/10/08 18:13/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	11/21/08 08:33/jmh
Silica	8.7	mg/L		0.2		2	E200.7	12/10/08 18:13/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B	11/25/08 15:46/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.16	s.u.		0.01		1	A4500-H B	11/25/08 15:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	11/21/08 11:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/03/08 21:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:28/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:28/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-012
Client Sample ID: DewBurd GW681

Report Date: 01/29/09
Collection Date: 11/18/08 13:55
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0098	mg/L		0.0003		1	E200.8	12/03/08 21:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:28/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 04:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:07/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1850	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha precision (±)	29.4	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha MDC	4.3	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta	605	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta precision (±)	9.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta MDC	5.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Lead 210	29.0	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	8.7	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	398	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 precision (±)	3.7	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	2100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	270	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	10.8	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	2.2	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.08	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-012
Client Sample ID: DewBurd GW681

Report Date: 01/29/09
Collection Date: 11/18/08 13:55
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	335000	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	872	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 08:06/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/05/08 08:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 08:06/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 08:06/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:10/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 08:06/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 08:06/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 08:06/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	12/10/08 23:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 08:06/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	12/05/08 08:06/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:16/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 08:06/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 08:06/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 08:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 16:24/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/05/08 08:06/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 08:06/eli-c
Uranium	0.0087	mg/L		0.0003		1	E200.8	12/05/08 08:06/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 08:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.94	%				1	A1030 E	01/29/09 00:00/jmh
Anions	13.9	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	15.0	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	939	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	01/29/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-013
Client Sample ID: DewBurd GW615

Report Date: 01/29/09
Collection Date: 11/18/08 15:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	11/25/08 11:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:53/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	11/25/08 11:53/mb
Calcium	77.0	mg/L		0.5		2	E200.7	12/10/08 18:21/eli-c
Chloride	5	mg/L		1		1	E300.0	11/20/08 23:31/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/08 23:31/jmh
Magnesium	22.6	mg/L		0.5		2	E200.7	12/10/08 18:21/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:31/jmh
Potassium	8.9	mg/L		0.5		2	E200.7	12/10/08 18:21/eli-c
Sodium	135	mg/L	D	2		2	E200.7	12/10/08 18:21/eli-c
Sulfate	391	mg/L	D	3		50	E300.0	11/21/08 08:49/jmh
Silica	9.1	mg/L		0.2		2	E200.7	12/10/08 18:21/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	973	umhos/cm		5.0		1	A2510 B	11/25/08 15:47/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.04	s.u.		0.01		1	A4500-H B	11/25/08 15:01/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C	11/21/08 11:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:35/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	12/03/08 21:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:21/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:21/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:35/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/03/08 21:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:35/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:35/eli-c

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-013
Client Sample ID: DewBurd GW615

Report Date: 01/29/09
Collection Date: 11/18/08 15:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/03/08 21:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:35/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 04:39/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:09/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	13.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha MDC	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta	4.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta MDC	3.5	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Lead 210	-0.2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.9	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	960	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.097	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.04	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 17:20/eli-c

Report Definitions:
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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: R08110211-013
Client Sample ID: DewBurd GW615

Report Date: 01/29/09
Collection Date: 11/18/08 15:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1800	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	99.1	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 08:12/eli-c
Arsenic	0.022	mg/L		0.001		1	E200.8	12/05/08 08:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 08:12/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 08:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 08:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 08:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 08:12/eli-c
Iron	1.19	mg/L		0.03		2	E200.7	12/10/08 23:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 08:12/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/05/08 08:12/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:18/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 08:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 08:12/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 08:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 16:45/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	12/05/08 08:12/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 08:12/eli-c
Uranium	0.0022	mg/L		0.0003		1	E200.8	12/05/08 08:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 08:12/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.16	%				1	A1030 E	01/29/09 00:00/jmh
Anions	11.1	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	11.8	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	747	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	01/29/09 00:00/jmh

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-014
Client Sample ID: DewBurd GW622

Report Date: 01/29/09
Collection Date: 11/18/08 14:30
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Calcium	92.4	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Chloride	11	mg/L		1		1	E300.0	11/20/08 23:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Magnesium	31.7	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Potassium	10.5	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Sodium	180	mg/L	D	2		2	E200.7	12/10/08 18:25/eli-c
Sulfate	480	mg/L	D	3		50	E300.0	11/21/08 09:06/jmh
Silica	8.5	mg/L		0.2		2	E200.7	12/10/08 18:25/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1180	umhos/cm		5.0		1	A2510 B	11/25/08 15:49/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.01	s.u.		0.01		1	A4500-H B	11/25/08 15:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	11/21/08 11:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Manganese	0.17	mg/L		0.01		1	E200.8	12/03/08 21:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:55/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:55/eli-c

Report Definitions:
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-014
Client Sample ID: DewBurd GW622

Report Date: 01/29/09
Collection Date: 11/18/08 14:30
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0055	mg/L		0.0003		1	E200.8	12/03/08 21:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 04:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:11/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	32.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha precision (±)	4.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Alpha MDC	4.2	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta	17.6	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Gross Beta MDC	4.1	pCi/L				1	E900.0	12/24/08 13:29/eli-cα
Lead 210	-2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	8.7	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	2.9	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/15/08 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/15/08 08:55/eli-c
Gross Gamma	910	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.24	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.42	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-014
Client Sample ID: DewBurd GW622

Report Date: 01/29/09
Collection Date: 11/18/08 14:30
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1280	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	93.3	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 08:45/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/05/08 08:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 08:45/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 08:45/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:18/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 08:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 08:45/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 08:45/eli-c
Iron	0.95	mg/L		0.03		2	E200.7	12/10/08 23:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 08:45/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	12/05/08 08:45/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:21/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 08:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 08:45/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 08:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 16:51/eli-c
Strontium	1.5	mg/L		0.1		1	E200.8	12/05/08 08:45/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 08:45/eli-c
Uranium	0.0051	mg/L		0.0003		1	E200.8	12/05/08 08:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 08:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.85	%				1	A1030 E	01/29/09 00:00/jmh
Anions	13.9	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	938	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	01/29/09 00:00/jmh

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 081125A-ALK-SEL-W
Sample ID: LCS1_081125A	Laboratory Control Sample				Run: PH_COND1-R_081125A				11/25/08 08:40
Alkalinity, Total as CaCO3	940	mg/L	5.0	94	90	110			
Sample ID: MBLK1_081125A	Method Blank				Run: PH_COND1-R_081125A				11/25/08 08:41
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08110211-005AMS	Sample Matrix Spike				Run: PH_COND1-R_081125A				11/25/08 11:30
Alkalinity, Total as CaCO3	376	mg/L	5.0	119	80	120			
Sample ID: R08110211-005AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_081125A				11/25/08 11:32
Alkalinity, Total as CaCO3	374	mg/L	5.0	117	80	120	0.5	10	
Sample ID: R08110211-014AMS	Sample Matrix Spike				Run: PH_COND1-R_081125A				11/25/08 11:56
Alkalinity, Total as CaCO3	300	mg/L	5.0	113	80	120			
Sample ID: R08110211-014AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_081125A				11/25/08 11:59
Alkalinity, Total as CaCO3	300	mg/L	5.0	113	80	120	0	10	
Method: A2510 B									Batch: 081125_1_COND-PROBE-W
Sample ID: LCS_COND-1_081125	Laboratory Control Sample				Run: PH_COND2-R_081125B				11/25/08 15:23
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_081125	Laboratory Control Sample				Run: PH_COND2-R_081125B				11/25/08 15:24
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_081125	Laboratory Control Sample				Run: PH_COND2-R_081125B				11/25/08 15:26
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_081125	Method Blank				Run: PH_COND2-R_081125B				11/25/08 15:28
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08110211-010ADUP	Sample Duplicate				Run: PH_COND2-R_081125B				11/25/08 15:42
Conductivity @ 25 C	1170	umhos/cm	5.0				0.9	10	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 081121A-SLDS-TDS-W	
Sample ID: LCS1_081121A	Laboratory Control Sample				Run: BAL-4-R_081121A			11/21/08 10:50	
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	92	90	110			
Sample ID: MBLK1_081121A	Method Blank				Run: BAL-4-R_081121A			11/21/08 10:52	
Solids, Total Dissolved TDS @ 180 C	6	mg/L	3						
Sample ID: R08110211-004AMS	Sample Matrix Spike				Run: BAL-4-R_081121A			11/21/08 11:32	
Solids, Total Dissolved TDS @ 180 C	980	mg/L	5.0	101	80	120			
Sample ID: R08110211-004AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_081121A			11/21/08 11:33	
Solids, Total Dissolved TDS @ 180 C	990	mg/L	5.0	103	80	120	0.4	10	
Sample ID: R08110211-014AMS	Sample Matrix Spike				Run: BAL-4-R_081121A			11/21/08 11:51	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	117	80	120			
Sample ID: R08110211-014AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_081121A			11/21/08 11:51	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	1.1	10	
Method: A2580 B								Batch: 081125-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_081125B			11/25/08 16:00	
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08110211-001F	Sample Duplicate				Run: PH_COND1-R_081125B			11/25/08 16:00	
Oxidation-Reduction Potential	310	mV					6.7	10	
Sample ID: R08110211-011F	Sample Duplicate				Run: PH_COND1-R_081125B			11/25/08 16:00	
Oxidation-Reduction Potential	280	mV					0.1	10	
Method: A3114 B								Batch: C_SE3114-081205	
Sample ID: MBLK	Method Blank				Run: SUB-C111885			12/05/08 09:31	
Selenium	ND	mg/L	0.0003						
Sample ID: 288-178-1	Laboratory Control Sample				Run: SUB-C111885			12/05/08 09:33	
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08110211-001E	Sample Matrix Spike				Run: SUB-C111885			12/05/08 09:40	
Selenium	0.047	mg/L	0.0010	93	85	115			
Sample ID: R08110211-001E	Sample Matrix Spike Duplicate				Run: SUB-C111885			12/05/08 09:42	
Selenium	0.047	mg/L	0.0010	95	85	115	1.9	15	
Sample ID: R08110211-011E	Sample Matrix Spike				Run: SUB-C111885			12/05/08 10:12	
Selenium	0.045	mg/L	0.0010	90	85	115			
Sample ID: R08110211-011E	Sample Matrix Spike Duplicate				Run: SUB-C111885			12/05/08 10:14	
Selenium	0.046	mg/L	0.0010	92	85	115	2.7	15	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV3114-081204	
Sample ID: MBLK	Method Blank				Run: SUB-C111846			12/04/08 15:21	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-178-1	Laboratory Control Sample				Run: SUB-C111846			12/04/08 15:23	
Selenium-IV	0.051	mg/L	0.0010	101	90	110			
Sample ID: R08110211-001E	Sample Matrix Spike				Run: SUB-C111846			12/04/08 15:30	
Selenium-IV	0.052	mg/L	0.0010	104	85	115			
Sample ID: R08110211-001E	Sample Matrix Spike Duplicate				Run: SUB-C111846			12/04/08 15:32	
Selenium-IV	0.053	mg/L	0.0010	106	85	115	1.8	10	
Sample ID: R08110211-011E	Sample Matrix Spike				Run: SUB-C111846			12/04/08 16:02	
Selenium-IV	0.050	mg/L	0.0010	99	85	115			
Sample ID: R08110211-011E	Sample Matrix Spike Duplicate				Run: SUB-C111846			12/04/08 16:04	
Selenium-IV	0.048	mg/L	0.0010	95	85	115	4.1	10	
Method: A4500-H B								Batch: 081125_1_PH-W	
Sample ID: LCS_pH-1_081125	Laboratory Control Sample				Run: PH_COND2-R_081125A			11/25/08 14:42	
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R08110211-010ADUP	Sample Duplicate				Run: PH_COND2-R_081125A			11/25/08 14:57	
pH	8.24	s.u.	0.010				0	1.25	

Qualifiers:

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ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-11-25_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_081125A			11/25/08 14:44	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_081125A			11/25/08 14:45	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	105	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_081125A			11/25/08 14:46	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	105	90	110			
Sample ID: R08110211-001BMS	Sample Matrix Spike				Run: TECHAA2-R_081125A			11/25/08 17:11	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	80	120			
Sample ID: R08110211-001BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081125A			11/25/08 17:12	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120	1.6	10	
Sample ID: R08110211-008BMS	Sample Matrix Spike				Run: TECHAA2-R_081125A			11/25/08 17:25	
Nitrogen, Ammonia as N	0.43	mg/L	0.10	108	80	120			
Sample ID: R08110211-008BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081125A			11/25/08 17:26	
Nitrogen, Ammonia as N	0.42	mg/L	0.10	107	80	120	0.9	10	
Sample ID: R08110220-001CMS	Sample Matrix Spike				Run: TECHAA2-R_081125A			11/25/08 17:38	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	94	80	120			
Sample ID: R08110220-001CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081125A			11/25/08 17:39	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	80	120	2.1	10	
Method: D5072-92								Batch: C_R111404	
Sample ID: R08110211-014G	Sample Duplicate				Run: SUB-C111404			11/23/08 09:20	
Radon 222	1340	pCi/L	100				4.4	30	
Sample ID: MB-R111404	Method Blank				Run: SUB-C111404			11/23/08 09:20	
Radon 222	50	pCi/L							U
Sample ID: LCS-R111404	Laboratory Control Sample				Run: SUB-C111404			11/23/08 09:20	
Radon 222	303	pCi/L	100	83	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_20705
Sample ID: MB-20705	Method Blank				Run: SUB-C112228				12/12/08 19:30
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-20705	Laboratory Control Sample				Run: SUB-C112228				12/12/08 19:34
Boron	0.530	mg/L	0.10	106	85	115			
Iron	2.66	mg/L	0.030	106	85	115			
Zinc	0.515	mg/L	0.010	103	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C112228				12/12/08 19:58
Boron	0.898	mg/L	0.13	109	70	130			
Iron	4.92	mg/L	0.087	124	70	130			
Zinc	0.610	mg/L	0.014	110	70	130			
Sample ID: C08120017-002AMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112228				12/12/08 20:02
Boron	0.830	mg/L	0.13	95	70	130	7.9	20	
Iron	4.64	mg/L	0.087	113	70	130	5.8	20	
Zinc	0.561	mg/L	0.014	100	70	130	8.4	20	

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R112099
Sample ID: R08110211-001C	Sample Matrix Spike				Run: SUB-C112099				12/10/08 16:28
Boron	2.00	mg/L	0.10	100	70	130			
Iron	2.00	mg/L	0.030	100	70	130			
Silicon	0.733	mg/L	0.10	92	70	130			
Calcium	103	mg/L	1.0	103	70	130			
Magnesium	101	mg/L	1.0	101	70	130			
Potassium	92.3	mg/L	1.0	92	70	130			
Sodium	101	mg/L	1.5	101	70	130			
Silica	1.57	mg/L	0.21	92	70	130			
Sample ID: R08110211-001C	Sample Matrix Spike Duplicate				Run: SUB-C112099				12/10/08 16:32
Boron	2.04	mg/L	0.10	102	70	130	1.6	20	
Iron	2.02	mg/L	0.030	101	70	130	0.8	20	
Silicon	0.742	mg/L	0.10	93	70	130	1.2	20	
Calcium	104	mg/L	1.0	104	70	130	1.6	20	
Magnesium	102	mg/L	1.0	102	70	130	1.2	20	
Potassium	92.1	mg/L	1.0	92	70	130	0.2	20	
Sodium	102	mg/L	1.5	102	70	130	0.8	20	
Silica	1.59	mg/L	0.21	93	70	130	1.2	20	
Sample ID: R08110211-011C	Sample Matrix Spike				Run: SUB-C112099				12/10/08 18:05
Boron	2.11	mg/L	0.10	101	70	130			
Iron	2.04	mg/L	0.030	102	70	130			
Silicon	5.05	mg/L	0.10		70	130			A
Calcium	148	mg/L	1.0	103	70	130			
Magnesium	119	mg/L	1.0	103	70	130			
Potassium	96.2	mg/L	1.0	89	70	130			
Sodium	280	mg/L	1.5	101	70	130			
Silica	10.8	mg/L	0.21		70	130			A
Sample ID: R08110211-011C	Sample Matrix Spike Duplicate				Run: SUB-C112099				12/10/08 18:09
Boron	2.17	mg/L	0.10	104	70	130	2.8	20	
Iron	2.09	mg/L	0.030	104	70	130	2.2	20	
Silicon	5.14	mg/L	0.10		70	130	1.8	20	A
Calcium	151	mg/L	1.0	105	70	130	1.8	20	
Magnesium	120	mg/L	1.0	104	70	130	0.9	20	
Potassium	97.8	mg/L	1.0	90	70	130	1.6	20	
Sodium	278	mg/L	1.5	99	70	130	0.5	20	
Silica	11.0	mg/L	0.21		70	130	1.8	20	A
Sample ID: R08110211-001D	Sample Matrix Spike				Run: SUB-C112099				12/10/08 22:17
Boron	2.07	mg/L	0.10	103	70	130			
Iron	2.10	mg/L	0.030	103	70	130			
Silicon	0.766	mg/L	0.10	96	70	130			
Calcium	107	mg/L	1.0	106	70	130			

Qualifiers:

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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.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R112099
Sample ID: R08110211-001D	Sample Matrix Spike				Run: SUB-C112099				12/10/08 22:17
Magnesium	106	mg/L	1.0	106	70	130			
Potassium	93.4	mg/L	1.0	93	70	130			
Sodium	100.0	mg/L	1.1	100	70	130			
Silica	1.64	mg/L	0.21	82	70	130			
Sample ID: R08110211-001D	Sample Matrix Spike Duplicate				Run: SUB-C112099				12/10/08 22:21
Boron	2.03	mg/L	0.10	101	70	130	1.9	20	
Iron	2.04	mg/L	0.030	100	70	130	2.9	20	
Silicon	0.753	mg/L	0.10	94	70	130	1.7	20	
Calcium	104	mg/L	1.0	103	70	130	2.9	20	
Magnesium	102	mg/L	1.0	102	70	130	3.9	20	
Potassium	91.0	mg/L	1.0	91	70	130	2.6	20	
Sodium	98.9	mg/L	1.1	99	70	130	1.1	20	
Silica	1.61	mg/L	0.21	81	70	130	1.7	20	
Method: E200.7_8									Batch: C_R112099
Sample ID: MB-081210A	Method Blank				Run: SUB-C112099				12/10/08 12:20
Boron	0.03	mg/L	0.008						
Iron	ND	mg/L	0.005						
Silicon	ND	mg/L	0.02						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	ND	mg/L	0.04						
Sample ID: LFB-081210A	Laboratory Fortified Blank				Run: SUB-C112099				12/10/08 12:24
Boron	1.08	mg/L	0.10	105	85	125			
Iron	1.07	mg/L	0.030	107	85	125			
Silicon	0.381	mg/L	0.021	95	85	125			
Calcium	53.2	mg/L	0.50	106	85	125			
Magnesium	53.8	mg/L	0.50	108	85	125			
Potassium	44.8	mg/L	0.50	90	85	125			
Sodium	49.0	mg/L	0.77	98	85	125			
Silica	0.815	mg/L	0.044	95	85	125			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20705
Sample ID: MB-20705	Method Blank				Run: SUB-C111977				12/08/08 19:21
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.005	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	3E-05	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0008	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	0.0002	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-20705	Laboratory Control Sample				Run: SUB-C111977				12/08/08 19:27
Antimony	0.537	mg/L	0.050	107	85	115			
Arsenic	0.517	mg/L	0.0010	102	85	115			
Barium	0.512	mg/L	0.10	102	85	115			
Beryllium	0.244	mg/L	0.010	98	85	115			
Cadmium	0.249	mg/L	0.010	100	85	115			
Chromium	0.486	mg/L	0.050	97	85	115			
Copper	0.473	mg/L	0.010	94	85	115			
Lead	0.495	mg/L	0.050	99	85	115			
Manganese	2.38	mg/L	0.010	95	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.507	mg/L	0.0010	101	85	115			
Silver	0.0534	mg/L	0.010	107	85	115			
Strontium	0.540	mg/L	0.10	108	85	115			
Thallium	0.508	mg/L	0.10	102	85	115			
Uranium	0.537	mg/L	0.00030	107	85	115			
Zinc	0.456	mg/L	0.010	91	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C111977				12/08/08 20:15
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.535	mg/L	0.0010	104	70	130			
Barium	0.686	mg/L	0.10	107	70	130			
Beryllium	0.241	mg/L	0.010	96	70	130			
Cadmium	0.247	mg/L	0.010	99	70	130			
Chromium	0.490	mg/L	0.050	97	70	130			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20705
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C111977				12/08/08 20:15
Copper	0.474	mg/L	0.010	93	70	130			
Lead	0.514	mg/L	0.050	102	70	130			
Manganese	2.83	mg/L	0.010	96	70	130			
Molybdenum	0.764	mg/L	0.10	107	70	130			
Nickel	0.475	mg/L	0.050	94	70	130			
Selenium	0.561	mg/L	0.0010	100	70	130			
Silver	0.0529	mg/L	0.010	106	70	130			
Strontium	0.972	mg/L	0.10	109	70	130			
Thallium	0.502	mg/L	0.10	100	70	130			
Uranium	0.572	mg/L	0.00030	113	70	130			
Zinc	0.472	mg/L	0.010	89	70	130			
Sample ID: C08120017-002AMSD3	Sample Matrix Spike Duplicate				Run: SUB-C111977				12/08/08 20:49
Antimony	0.537	mg/L	0.050	107	70	130	2.9	20	
Arsenic	0.523	mg/L	0.0010	101	70	130	2.3	20	
Barium	0.668	mg/L	0.10	103	70	130	2.6	20	
Beryllium	0.235	mg/L	0.010	94	70	130	2.4	20	
Cadmium	0.240	mg/L	0.010	96	70	130	3	20	
Chromium	0.479	mg/L	0.050	95	70	130	2.3	20	
Copper	0.464	mg/L	0.010	91	70	130	2.2	20	
Lead	0.508	mg/L	0.050	101	70	130	1.2	20	
Manganese	2.80	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.740	mg/L	0.10	102	70	130	3.1	20	
Nickel	0.463	mg/L	0.050	92	70	130	2.7	20	
Selenium	0.542	mg/L	0.0010	96	70	130	3.5	20	
Silver	0.0517	mg/L	0.010	103	70	130	2.4	20	
Strontium	0.957	mg/L	0.10	106	70	130	1.5	20	
Thallium	0.500	mg/L	0.10	100	70	130	0.5	20	
Uranium	0.568	mg/L	0.00030	113	70	130	0.8	20	
Zinc	0.463	mg/L	0.010	87	70	130	2	20	
Sample ID: MB-20705	Method Blank				Run: SUB-C112034				12/09/08 21:52
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.004	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0003	mg/L	3E-05						
Molybdenum	0.0001	mg/L	5E-05						
Nickel	0.0006	mg/L	6E-05						

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20705
Sample ID: MB-20705	Method Blank				Run: SUB-C112034				12/09/08 21:52
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	0.0002	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-20705	Laboratory Control Sample				Run: SUB-C112034				12/09/08 21:58
Antimony	0.530	mg/L	0.050	106	85	115			
Arsenic	0.504	mg/L	0.0010	100	85	115			
Barium	0.507	mg/L	0.10	101	85	115			
Beryllium	0.237	mg/L	0.010	95	85	115			
Cadmium	0.247	mg/L	0.010	99	85	115			
Chromium	0.485	mg/L	0.050	97	85	115			
Copper	0.475	mg/L	0.010	94	85	115			
Lead	0.504	mg/L	0.050	101	85	115			
Manganese	2.48	mg/L	0.010	99	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.490	mg/L	0.0010	98	85	115			
Silver	0.0475	mg/L	0.010	95	85	115			
Strontium	0.518	mg/L	0.10	104	85	115			
Thallium	0.514	mg/L	0.10	103	85	115			
Uranium	0.527	mg/L	0.00030	105	85	115			
Zinc	0.474	mg/L	0.010	95	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C112034				12/09/08 22:46
Antimony	0.551	mg/L	0.050	110	70	130			
Arsenic	0.529	mg/L	0.0010	103	70	130			
Barium	0.682	mg/L	0.10	106	70	130			
Beryllium	0.225	mg/L	0.010	90	70	130			
Cadmium	0.245	mg/L	0.010	98	70	130			
Chromium	0.478	mg/L	0.050	95	70	130			
Copper	0.482	mg/L	0.010	95	70	130			
Lead	0.520	mg/L	0.050	103	70	130			
Manganese	2.81	mg/L	0.010	95	70	130			
Molybdenum	0.794	mg/L	0.10	113	70	130			
Nickel	0.482	mg/L	0.050	96	70	130			
Selenium	0.552	mg/L	0.0010	98	70	130			
Silver	0.0477	mg/L	0.010	95	70	130			
Strontium	0.945	mg/L	0.10	107	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.578	mg/L	0.00030	115	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20705
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C112034				12/09/08 22:46
Zinc	0.494	mg/L	0.010	93	70	130			
Sample ID: C08120017-002AMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112034				12/09/08 22:52
Antimony	0.535	mg/L	0.050	107	70	130	3	20	
Arsenic	0.515	mg/L	0.0010	100	70	130	2.6	20	
Barium	0.662	mg/L	0.10	102	70	130	3	20	
Beryllium	0.219	mg/L	0.010	87	70	130	3	20	
Cadmium	0.238	mg/L	0.010	95	70	130	3	20	
Chromium	0.462	mg/L	0.050	91	70	130	3.4	20	
Copper	0.465	mg/L	0.010	91	70	130	3.6	20	
Lead	0.505	mg/L	0.050	100	70	130	2.9	20	
Manganese	2.74	mg/L	0.010	93	70	130	2.4	20	
Molybdenum	0.759	mg/L	0.10	106	70	130	4.5	20	
Nickel	0.466	mg/L	0.050	93	70	130	3.4	20	
Selenium	0.535	mg/L	0.0010	95	70	130	3.1	20	
Silver	0.0464	mg/L	0.010	93	70	130	2.8	20	
Strontium	0.913	mg/L	0.10	100	70	130	3.5	20	
Thallium	0.506	mg/L	0.10	101	70	130	2.9	20	
Uranium	0.558	mg/L	0.00030	111	70	130	3.6	20	
Zinc	0.479	mg/L	0.010	90	70	130	3	20	
Method: E200.8									Batch: C_20766
Sample ID: MB-20766	Method Blank				Run: SUB-C112108				12/11/08 00:48
Uranium	8E-05	mg/L	1E-05						
Sample ID: LCS1-20766	Laboratory Control Sample				Run: SUB-C112108				12/11/08 00:55
Uranium	0.00466	mg/L	0.00030	92	80	120			
Sample ID: R08110211-010I	Sample Matrix Spike				Run: SUB-C112108				12/11/08 02:36
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08110211-010I	Sample Matrix Spike Duplicate				Run: SUB-C112108				12/11/08 02:42
Uranium	0.0116	mg/L	0.00030	93	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111761
Sample ID: LRB	Method Blank				Run: SUB-C111761				12/03/08 12:32
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	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	0.0005	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C111761				12/03/08 12:39
Aluminum	0.0461	mg/L	0.0010	92	85	115			
Arsenic	0.0471	mg/L	0.0010	94	85	115			
Barium	0.0462	mg/L	0.0010	92	85	115			
Cadmium	0.0466	mg/L	0.0010	93	85	115			
Chromium	0.0466	mg/L	0.0010	93	85	115			
Copper	0.0475	mg/L	0.0010	95	85	115			
Lead	0.0460	mg/L	0.0010	92	85	115			
Manganese	0.0467	mg/L	0.0010	93	85	115			
Mercury	0.00467	mg/L	0.0010	93	85	115			
Molybdenum	0.0472	mg/L	0.0010	95	85	115			
Nickel	0.0471	mg/L	0.0010	94	85	115			
Thorium 232	0.0455	mg/L	0.0010	91	85	115			
Uranium	0.0459	mg/L	0.00030	92	85	115			
Vanadium	0.0465	mg/L	0.0010	93	85	115			
Zinc	0.0502	mg/L	0.0010	99	85	115			
Sample ID: R08110211-003C	Post Digestion Spike				Run: SUB-C111761				12/03/08 19:53
Aluminum	0.0493	mg/L	0.10	99	70	130			
Arsenic	0.0515	mg/L	0.0010	100	70	130			
Barium	0.0603	mg/L	0.10	101	70	130			
Cadmium	0.0468	mg/L	0.010	94	70	130			
Chromium	0.0472	mg/L	0.050	94	70	130			
Copper	0.0479	mg/L	0.010	93	70	130			
Lead	0.0508	mg/L	0.050	102	70	130			
Manganese	0.192	mg/L	0.010	93	70	130			
Mercury	0.00508	mg/L	0.0010	102	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111761
Sample ID: R08110211-003C	Post Digestion Spike				Run: SUB-C111761				12/03/08 19:53
Molybdenum	0.0516	mg/L	0.10	102	70	130			
Nickel	0.0492	mg/L	0.050	92	70	130			
Thorium 232	0.0529	mg/L	0.0010	106	70	130			
Uranium	0.0531	mg/L	0.00030	105	70	130			
Vanadium	0.0483	mg/L	0.10	96	70	130			
Zinc	0.0489	mg/L	0.010	91	70	130			
Sample ID: R08110211-003C	Post Digestion Spike Duplicate				Run: SUB-C111761				12/03/08 20:00
Aluminum	0.0482	mg/L	0.10	96	70	130	0	20	
Arsenic	0.0519	mg/L	0.0010	101	70	130	0.7	20	
Barium	0.0597	mg/L	0.10	99	70	130	0	20	
Cadmium	0.0473	mg/L	0.010	95	70	130	1.1	20	
Chromium	0.0460	mg/L	0.050	91	70	130	0	20	
Copper	0.0473	mg/L	0.010	92	70	130	1.3	20	
Lead	0.0501	mg/L	0.050	100	70	130	1.2	20	
Manganese	0.188	mg/L	0.010	86	70	130	1.8	20	
Mercury	0.00506	mg/L	0.0010	101	70	130	0.4	20	
Molybdenum	0.0517	mg/L	0.10	102	70	130	0	20	
Nickel	0.0495	mg/L	0.050	92	70	130	0	20	
Thorium 232	0.0529	mg/L	0.0010	106	70	130	0.1	20	
Uranium	0.0531	mg/L	0.00030	105	70	130	0.1	20	
Vanadium	0.0475	mg/L	0.10	95	70	130	0	20	
Zinc	0.0487	mg/L	0.010	91	70	130	0.5	20	
Sample ID: R08110211-013C	Post Digestion Spike				Run: SUB-C111761				12/03/08 21:42
Aluminum	0.0573	mg/L	0.10	115	70	130			
Arsenic	0.0623	mg/L	0.0010	101	70	130			
Barium	0.0620	mg/L	0.10	99	70	130			
Cadmium	0.0469	mg/L	0.010	94	70	130			
Chromium	0.0469	mg/L	0.050	93	70	130			
Copper	0.0479	mg/L	0.010	94	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Manganese	0.110	mg/L	0.010	93	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Molybdenum	0.0512	mg/L	0.10	100	70	130			
Nickel	0.0484	mg/L	0.050	92	70	130			
Thorium 232	0.0516	mg/L	0.0010	103	70	130			
Uranium	0.0538	mg/L	0.00030	102	70	130			
Vanadium	0.0481	mg/L	0.10	96	70	130			
Zinc	0.0484	mg/L	0.010	93	70	130			
Sample ID: R08110211-013C	Post Digestion Spike Duplicate				Run: SUB-C111761				12/03/08 21:49
Aluminum	0.0523	mg/L	0.10	105	70	130	0	20	
Arsenic	0.0623	mg/L	0.0010	101	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R111761	
Sample ID: R08110211-013C	Post Digestion Spike Duplicate				Run: SUB-C111761			12/03/08 21:49	
Barium	0.0622	mg/L	0.10	100	70	130	0	20	
Cadmium	0.0470	mg/L	0.010	94	70	130	0.1	20	
Chromium	0.0472	mg/L	0.050	93	70	130	0	20	
Copper	0.0471	mg/L	0.010	92	70	130	1.8	20	
Lead	0.0501	mg/L	0.050	100	70	130	0.8	20	
Manganese	0.111	mg/L	0.010	94	70	130	0.6	20	
Mercury	0.00521	mg/L	0.0010	104	70	130	0.9	20	
Molybdenum	0.0512	mg/L	0.10	100	70	130	0	20	
Nickel	0.0492	mg/L	0.050	94	70	130	0	20	
Thorium 232	0.0515	mg/L	0.0010	103	70	130	0.2	20	
Uranium	0.0540	mg/L	0.00030	103	70	130	0.3	20	
Vanadium	0.0483	mg/L	0.10	96	70	130	0	20	
Zinc	0.0475	mg/L	0.010	91	70	130	1.8	20	
Sample ID: C08110911-007BMS	Sample Matrix Spike				Run: SUB-C111761			12/04/08 01:06	
Aluminum	0.0966	mg/L	0.10	97	70	130			
Arsenic	0.0954	mg/L	0.0010	94	70	130			
Barium	0.227	mg/L	0.10	93	70	130			
Cadmium	0.0896	mg/L	0.010	90	70	130			
Chromium	0.0862	mg/L	0.050	86	70	130			
Copper	0.0919	mg/L	0.010	88	70	130			
Lead	0.0942	mg/L	0.050	94	70	130			
Manganese	0.114	mg/L	0.010	85	70	130			
Mercury	0.00950	mg/L	0.0010	9	70	130			S
Molybdenum	0.0949	mg/L	0.10	94	70	130			
Nickel	0.0951	mg/L	0.050	89	70	130			
Thorium 232	0.0986	mg/L	0.0010	99	70	130			
Uranium	0.102	mg/L	0.00030	98	70	130			
Vanadium	0.0902	mg/L	0.10	89	70	130			
Zinc	0.0892	mg/L	0.010	86	70	130			
Sample ID: C08110911-007BMSD	Sample Matrix Spike Duplicate				Run: SUB-C111761			12/04/08 01:12	
Aluminum	0.101	mg/L	0.10	101	70	130	4.9	20	
Arsenic	0.0965	mg/L	0.0010	95	70	130	1.1	20	
Barium	0.231	mg/L	0.10	97	70	130	1.6	20	
Cadmium	0.0905	mg/L	0.010	90	70	130	1	20	
Chromium	0.0859	mg/L	0.050	86	70	130	0.2	20	
Copper	0.0931	mg/L	0.010	89	70	130	1.4	20	
Lead	0.0938	mg/L	0.050	94	70	130	0.4	20	
Manganese	0.113	mg/L	0.010	84	70	130	0.4	20	
Mercury	0.00941	mg/L	0.0010	9	70	130	0.9	20	S
Molybdenum	0.0986	mg/L	0.10	98	70	130	0	20	
Nickel	0.0980	mg/L	0.050	92	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111761
Sample ID: C08110911-007BMSD	Sample Matrix Spike Duplicate				Run: SUB-C111761				12/04/08 01:12
Thorium 232	0.0984	mg/L	0.0010	98	70	130	0.2	20	
Uranium	0.102	mg/L	0.00030	98	70	130	0.2	20	
Vanadium	0.0897	mg/L	0.10	88	70	130	0	20	
Zinc	0.0901	mg/L	0.010	86	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111874
Sample ID: LRB	Method Blank				Run: SUB-C111874				12/04/08 22:10
Antimony	0.0004	mg/L	0.0003						
Arsenic	ND	mg/L	2E-05						
Barium	ND	mg/L	2E-05						
Beryllium	ND	mg/L	3E-05						
Cadmium	1E-05	mg/L	8E-06						
Chromium	ND	mg/L	2E-05						
Copper	2E-05	mg/L	1E-05						
Lead	ND	mg/L	1E-05						
Manganese	ND	mg/L	2E-05						
Molybdenum	3E-05	mg/L	3E-05						
Nickel	ND	mg/L	2E-05						
Selenium	ND	mg/L	4E-05						
Silver	3E-05	mg/L	3E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	1.0E-05						
Uranium	ND	mg/L	7E-06						
Zinc	0.0005	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C111874				12/04/08 22:17
Antimony	0.0480	mg/L	0.0010	95	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0498	mg/L	0.0010	100	85	115			
Beryllium	0.0502	mg/L	0.0010	100	85	115			
Cadmium	0.0496	mg/L	0.0010	99	85	115			
Chromium	0.0492	mg/L	0.0010	98	85	115			
Copper	0.0497	mg/L	0.0010	99	85	115			
Lead	0.0493	mg/L	0.0010	99	85	115			
Manganese	0.0474	mg/L	0.0010	95	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Selenium	0.0508	mg/L	0.0010	102	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Strontium	0.0475	mg/L	0.0010	95	85	115			
Thallium	0.0473	mg/L	0.0010	95	85	115			
Uranium	0.0459	mg/L	0.00030	92	85	115			
Zinc	0.0495	mg/L	0.0010	98	85	115			
Sample ID: C08110862-024BMS4	Post Digestion Spike				Run: SUB-C111874				12/05/08 01:46
Antimony	0.0513	mg/L	0.050	103	70	130			
Arsenic	0.0508	mg/L	0.0010	101	70	130			
Barium	0.107	mg/L	0.10	100	70	130			
Beryllium	0.0476	mg/L	0.010	95	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R111874	
Sample ID: C08110862-024BMS4	Post Digestion Spike				Run: SUB-C111874			12/05/08 01:46	
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0484	mg/L	0.010	95	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Manganese	0.0547	mg/L	0.010	96	70	130			
Molybdenum	0.0627	mg/L	0.10	99	70	130			
Nickel	0.0483	mg/L	0.050	95	70	130			
Selenium	0.0519	mg/L	0.0010	103	70	130			
Silver	0.0196	mg/L	0.010	98	70	130			
Strontium	0.343	mg/L	0.10		70	130			A
Thallium	0.0477	mg/L	0.10	95	70	130			
Uranium	0.266	mg/L	0.00030		70	130			A
Zinc	0.0546	mg/L	0.010	101	70	130			
Sample ID: C08110862-024BMSD4	Post Digestion Spike Duplicate				Run: SUB-C111874			12/05/08 01:53	
Antimony	0.0518	mg/L	0.050	104	70	130	1	20	
Arsenic	0.0507	mg/L	0.0010	101	70	130	0.4	20	
Barium	0.107	mg/L	0.10	100	70	130	0.1	20	
Beryllium	0.0474	mg/L	0.010	95	70	130	0.6	20	
Cadmium	0.0493	mg/L	0.010	98	70	130	0.2	20	
Chromium	0.0489	mg/L	0.050	97	70	130	0	20	
Copper	0.0484	mg/L	0.010	95	70	130	0	20	
Lead	0.0496	mg/L	0.050	99	70	130	0	20	
Manganese	0.0541	mg/L	0.010	94	70	130	1.1	20	
Molybdenum	0.0624	mg/L	0.10	98	70	130	0	20	
Nickel	0.0479	mg/L	0.050	95	70	130	0	20	
Selenium	0.0516	mg/L	0.0010	103	70	130	0.6	20	
Silver	0.0197	mg/L	0.010	99	70	130	0.6	20	
Strontium	0.345	mg/L	0.10		70	130	0.6	20	A
Thallium	0.0475	mg/L	0.10	95	70	130	0	20	
Uranium	0.262	mg/L	0.00030		70	130	1.2	20	A
Zinc	0.0535	mg/L	0.010	99	70	130	1.9	20	
Sample ID: R08110211-008C	Post Digestion Spike				Run: SUB-C111874			12/05/08 04:10	
Antimony	0.0467	mg/L	0.050	93	70	130			
Arsenic	0.0522	mg/L	0.0010	104	70	130			
Barium	0.0604	mg/L	0.10	102	70	130			
Beryllium	0.0435	mg/L	0.010	87	70	130			
Cadmium	0.0473	mg/L	0.010	95	70	130			
Chromium	0.0501	mg/L	0.050	100	70	130			
Copper	0.0474	mg/L	0.010	95	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Manganese	2.44	mg/L	0.010		70	130			A
Molybdenum	0.0507	mg/L	0.10	101	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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111874
Sample ID: R08110211-008C	Post Digestion Spike				Run: SUB-C111874				12/05/08 04:10
Nickel	0.0496	mg/L	0.050	96	70	130			
Selenium	0.0528	mg/L	0.0010	105	70	130			
Silver	0.0111	mg/L	0.010	56	70	130			S
Strontium	4.77	mg/L	0.10		70	130			A
Thallium	0.0492	mg/L	0.10	98	70	130			
Uranium	0.154	mg/L	0.00030	98	70	130			
Zinc	0.0495	mg/L	0.010	93	70	130			
Sample ID: R08110211-008C	Post Digestion Spike Duplicate				Run: SUB-C111874				12/05/08 04:16
Antimony	0.0486	mg/L	0.050	97	70	130	0	20	
Arsenic	0.0521	mg/L	0.0010	104	70	130	0.2	20	
Barium	0.0611	mg/L	0.10	104	70	130	0	20	
Beryllium	0.0439	mg/L	0.010	88	70	130	0.8	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.7	20	
Chromium	0.0505	mg/L	0.050	101	70	130	0.8	20	
Copper	0.0472	mg/L	0.010	94	70	130	0.4	20	
Lead	0.0512	mg/L	0.050	102	70	130	0.6	20	
Manganese	2.44	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.0518	mg/L	0.10	103	70	130	0	20	
Nickel	0.0497	mg/L	0.050	96	70	130	0	20	
Selenium	0.0526	mg/L	0.0010	105	70	130	0.5	20	
Silver	0.0131	mg/L	0.010	66	70	130	16	20	S
Strontium	4.82	mg/L	0.10		70	130	1	20	A
Thallium	0.0494	mg/L	0.10	99	70	130	0	20	
Uranium	0.155	mg/L	0.00030	101	70	130	0.9	20	
Zinc	0.0491	mg/L	0.010	92	70	130	0.9	20	
Sample ID: R08110211-007D	Post Digestion Spike				Run: SUB-C111874				12/05/08 07:40
Antimony	0.0459	mg/L	0.050	92	70	130			
Arsenic	0.0566	mg/L	0.0010	102	70	130			
Barium	0.0638	mg/L	0.10	101	70	130			
Beryllium	0.0428	mg/L	0.010	86	70	130			
Cadmium	0.0465	mg/L	0.010	93	70	130			
Chromium	0.0495	mg/L	0.050	98	70	130			
Copper	0.0471	mg/L	0.010	94	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Manganese	1.05	mg/L	0.010		70	130			A
Molybdenum	0.0542	mg/L	0.10	100	70	130			
Nickel	0.0492	mg/L	0.050	96	70	130			
Selenium	0.0524	mg/L	0.0010	105	70	130			
Silver	0.0141	mg/L	0.010	70	70	130			
Strontium	5.73	mg/L	0.10		70	130			A
Thallium	0.0493	mg/L	0.10	99	70	130			

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111874
Sample ID: R08110211-007D	Post Digestion Spike				Run: SUB-C111874				12/05/08 07:40
Uranium	0.0546	mg/L	0.00030	101	70	130			
Zinc	0.0466	mg/L	0.010	88	70	130			
Sample ID: R08110211-007D	Post Digestion Spike Duplicate				Run: SUB-C111874				12/05/08 07:46
Antimony	0.0483	mg/L	0.050	97	70	130	0	20	
Arsenic	0.0572	mg/L	0.0010	103	70	130	1	20	
Barium	0.0641	mg/L	0.10	101	70	130	0	20	
Beryllium	0.0421	mg/L	0.010	84	70	130	1.5	20	
Cadmium	0.0471	mg/L	0.010	94	70	130	1.4	20	
Chromium	0.0502	mg/L	0.050	100	70	130	1.4	20	
Copper	0.0475	mg/L	0.010	95	70	130	0.9	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.1	20	
Manganese	1.04	mg/L	0.010		70	130	1.4	20	A
Molybdenum	0.0548	mg/L	0.10	101	70	130	0	20	
Nickel	0.0496	mg/L	0.050	97	70	130	0	20	
Selenium	0.0515	mg/L	0.0010	103	70	130	1.7	20	
Silver	0.0147	mg/L	0.010	73	70	130	4.1	20	
Strontium	5.71	mg/L	0.10		70	130	0.4	20	A
Thallium	0.0495	mg/L	0.10	99	70	130	0	20	
Uranium	0.0577	mg/L	0.00030	107	70	130	5.5	20	
Zinc	0.0467	mg/L	0.010	89	70	130	0.2	20	
Method: E200.8									Batch: C_R111977
Sample ID: LRB	Method Blank				Run: SUB-C111977				12/08/08 12:48
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C111977				12/08/08 12:55
Silver	0.0225	mg/L	0.0010	112	85	115			
Sample ID: R08110211-012D	Post Digestion Spike				Run: SUB-C111977				12/08/08 16:31
Silver	0.0180	mg/L	0.010	90	70	130			
Sample ID: R08110211-012D	Post Digestion Spike Duplicate				Run: SUB-C111977				12/08/08 16:38
Silver	0.0199	mg/L	0.010	99	70	130	9.9	20	
Sample ID: R08110211-014C	Post Digestion Spike				Run: SUB-C111977				12/08/08 18:40
Silver	0.0202	mg/L	0.010	101	70	130			
Sample ID: R08110211-014C	Post Digestion Spike Duplicate				Run: SUB-C111977				12/08/08 18:47
Silver	0.0198	mg/L	0.010	99	70	130	2.1	20	

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QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_35991
Sample ID: MB-35991	Method Blank				Run: SUB-B121239				11/24/08 11:16
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35991	Laboratory Fortified Blank				Run: SUB-B121239				11/24/08 11:18
Mercury	0.0020	mg/L	0.0010	98	85	115			
Sample ID: R08110200-007E	Sample Matrix Spike				Run: SUB-B121239				11/24/08 11:44
Mercury	0.0019	mg/L	0.0010	96	70	130			
Sample ID: R08110200-007E	Sample Matrix Spike Duplicate				Run: SUB-B121239				11/24/08 11:46
Mercury	0.0020	mg/L	0.0010	98	70	130	0	30	
Method: E245.1									Batch: B_35997
Sample ID: MB-35997	Method Blank				Run: SUB-B121239				11/24/08 08:35
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35997	Laboratory Fortified Blank				Run: SUB-B121239				11/24/08 08:37
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: R08110211-006J	Sample Matrix Spike				Run: SUB-B121239				11/24/08 08:52
Mercury	0.0020	mg/L	0.0010	100	70	130			
Sample ID: R08110211-006J	Sample Matrix Spike Duplicate				Run: SUB-B121239				11/24/08 08:54
Mercury	0.0021	mg/L	0.0010	104	70	130	0	30	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R38508
Sample ID: LFB0811202111-3	Laboratory Fortified Blank				Run: DIONEX_081120A				11/20/08 18:03
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0811202111-4	Laboratory Fortified Blank				Run: DIONEX_081120A				11/20/08 18:19
Chloride	4.73	mg/L	0.50	95	90	110			
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08110211-001AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/20/08 18:52
Chloride	4.87	mg/L	0.50	97	80	120			
Fluoride	1.99	mg/L	0.10	100	80	120			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	80	120			
Sulfate	14.0	mg/L	1.0	93	80	120			
Sample ID: R08110211-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081120A				11/20/08 19:08
Chloride	4.75	mg/L	0.50	95	80	120	2.5	10	
Fluoride	1.93	mg/L	0.10	97	80	120	3.1	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	3	10	
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120	2.8	10	
Sulfate	13.7	mg/L	1.0	91	80	120	2.3	10	
Sample ID: R08110211-009AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/20/08 22:09
Chloride	16.1	mg/L	0.50	71	80	120			S
Fluoride	2.13	mg/L	0.10	86	80	120			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	572	mg/L	1.0		80	120			A
Sample ID: R08110211-009AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081120A				11/20/08 22:25
Chloride	16.0	mg/L	0.50	69	80	120	0.6	10	S
Fluoride	2.03	mg/L	0.10	81	80	120	4.8	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	2.6	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	2.5	10	
Sulfate	573	mg/L	1.0		80	120	0.2	10	A
Sample ID: R08110227-001AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/21/08 01:26
Chloride	32.3	mg/L	0.50		80	120			A
Fluoride	5.05	mg/L	0.10	83	80	120			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R38508
Sample ID: R08110227-001AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/21/08 01:26
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120			
Sulfate	323	mg/L	1.0		80	120			A
Sample ID: R08110227-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081120A				11/21/08 01:42
Chloride	32.3	mg/L	0.50		80	120	0.1	10	A
Fluoride	4.98	mg/L	0.10	79	80	120	1.4	10	S
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	80	120	1.7	10	
Nitrogen, Nitrite as N	2.34	mg/L	0.10	94	80	120	2.5	10	
Sulfate	323	mg/L	1.0		80	120	0	10	A
Sample ID: R08110211-003AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/21/08 04:43
Chloride	252	mg/L	5.4	94	80	120			
Fluoride	104	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1150	mg/L	3.4	88	80	120			
Sample ID: R08110211-003AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081120A				11/21/08 04:59
Chloride	248	mg/L	5.4	92	80	120	1.9	10	
Fluoride	102	mg/L	0.56	93	80	120	1.9	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120	2	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	2	10	
Sulfate	1130	mg/L	3.4	86	80	120	1.4	10	
Sample ID: R08110211-011AMS	Sample Matrix Spike				Run: DIONEX_081120A				11/21/08 08:00
Chloride	248	mg/L	5.4	93	80	120			
Fluoride	103	mg/L	0.56	96	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1020	mg/L	3.4	86	80	120			
Sample ID: R08110211-011AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081120A				11/21/08 08:16
Chloride	249	mg/L	5.4	94	80	120	0.2	10	
Fluoride	104	mg/L	0.56	97	80	120	0.9	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	0.2	10	
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120	0.2	10	
Sulfate	1030	mg/L	3.4	86	80	120	0.4	10	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0581
Sample ID: MB-GrAB-0581	Method Blank				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	-0.6	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0581	Laboratory Control Sample				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	140	pCi/L		99	70	130			
Sample ID: Cs137-GrAB-0581	Laboratory Control Sample				Run: SUB-C112738				12/24/08 01:11
Gross Beta	83	pCi/L		91	70	130			
Sample ID: C08120016-001AMS	Sample Matrix Spike				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	150	pCi/L		112	70	130			
Sample ID: C08120016-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	160	pCi/L		119	70	130	6.5	16	
Sample ID: C08120016-001AMS	Sample Matrix Spike				Run: SUB-C112738				12/24/08 01:10
Gross Beta	88	pCi/L		96	70	130			
Sample ID: C08120016-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C112738				12/24/08 01:10
Gross Beta	97	pCi/L		106	70	130	10	16	
Method: E901.1									Batch: C_R112023
Sample ID: LCS-R112023	Laboratory Control Sample				Run: SUB-C112023				12/03/08 15:07
Americium 241	660	pCi/L	20	82	70	130			
Cesium 137	1300	pCi/L	20	93	70	130			
Potassium 40	6700	pCi/L	20	101	70	130			
Sample ID: MB-R112023	Method Blank				Run: SUB-C112023				12/03/08 15:07
Bismuth 214	ND	pCi/L							U
Gross Gamma	ND	pCi/L							U
Sample ID: R08110211-014H	Sample Duplicate				Run: SUB-C112023				12/03/08 15:07
Bismuth 214	80	pCi/L	20				43	79	
Lead 214	35	pCi/L	20				41	107	
Potassium 40	980	pCi/L	20				16	47	
Gross Gamma	1100	pCi/L	20				19	51	

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QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_20766
Sample ID: R08110211-004I	Sample Duplicate				Run: SUB-C112516				12/18/08 15:28
Radium 226	0.0035	pCi/L			70	130	190	403.7	U
Sample ID: C08110847-001FMS	Sample Matrix Spike				Run: SUB-C112516				12/18/08 17:20
Radium 226	19	pCi/L		98	70	130			
Sample ID: LCS-20766	Laboratory Control Sample				Run: SUB-C112516				12/19/08 03:05
Radium 226	14	pCi/L		101	70	130			
Sample ID: MB-20766	Method Blank				Run: SUB-C112516				12/19/08 03:05
Radium 226	-2	pCi/L							U
Method: E903.0									Batch: C_RA226-3296
Sample ID: R08110211-010H	Sample Matrix Spike				Run: SUB-C112408				12/17/08 00:57
Radium 226	16	pCi/L		88	70	130			
Sample ID: R08110211-010H	Sample Matrix Spike Duplicate				Run: SUB-C112408				12/17/08 00:57
Radium 226	17	pCi/L		95	70	130	7.3	23	
Sample ID: MB-RA226-3296	Method Blank				Run: SUB-C112408				12/17/08 02:34
Radium 226	-0.03	pCi/L							U
Sample ID: LCS-RA226-3296	Laboratory Control Sample				Run: SUB-C112408				12/17/08 02:34
Radium 226	7.8	pCi/L		98	70	130			
Method: E907.0									Batch: C_20766
Sample ID: R08110211-012I	Sample Matrix Spike				Run: SUB-C112665				12/11/08 15:00
Thorium 230	12.1	pCi/L	0.20	105	70	130			
Sample ID: R08110211-012I	Sample Matrix Spike Duplicate				Run: SUB-C112665				12/11/08 15:00
Thorium 230	9.62	pCi/L	0.20	83	70	130	23	30	
Sample ID: LCS-20766	Laboratory Control Sample				Run: SUB-C112665				12/11/08 15:00
Thorium 230	29.9	pCi/L	0.20	130	70	130			
Sample ID: MB-20766	Method Blank				Run: SUB-C112665				12/11/08 15:00
Thorium 230	0.10	pCi/L							U

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QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-0708
Sample ID: LCS-RA-TH-ISO-0708	Laboratory Control Sample				Run: SUB-C112347				12/12/08 16:26
Thorium 230	5.60	pCi/L	0.20	92	70	130			
Sample ID: R08110211-007H	Sample Matrix Spike				Run: SUB-C112347				12/12/08 16:26
Thorium 230	15.0	pCi/L	0.20	96	70	130			
Sample ID: R08110211-007H	Sample Matrix Spike Duplicate				Run: SUB-C112347				12/12/08 16:26
Thorium 230	16.6	pCi/L	0.20	106	70	130	10	41.6	
Sample ID: MB-RA-TH-ISO-0708	Method Blank				Run: SUB-C112347				12/15/08 08:55
Thorium 230	0.04	pCi/L							U
Method: E909.0M									Batch: C_20766
Sample ID: R08110211-007I	Sample Matrix Spike				Run: SUB-C112810				12/18/08 07:13
Lead 210	1100	pCi/L		92	70	130			
Sample ID: R08110211-007I	Sample Matrix Spike Duplicate				Run: SUB-C112810				12/18/08 07:13
Lead 210	1100	pCi/L		96	70	130	4.5	30	
Sample ID: MB-R112810	Method Blank				Run: SUB-C112810				12/18/08 07:13
Lead 210	0.9	pCi/L							U
Sample ID: LCS-R112810	Laboratory Control Sample				Run: SUB-C112810				12/18/08 07:13
Lead 210	100	pCi/L		90	70	130			
Method: E909.0M									Batch: C_R112583
Sample ID: R08110211-012H	Sample Matrix Spike				Run: SUB-C112583				12/11/08 10:00
Lead 210	140	pCi/L		98	70	130			
Sample ID: R08110211-014H	Sample Duplicate				Run: SUB-C112583				12/11/08 10:00
Lead 210	-1.7	pCi/L					38	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R112583	Method Blank				Run: SUB-C112583				12/11/08 10:00
Lead 210	-5	pCi/L							U
Sample ID: LCS-R112583	Laboratory Control Sample				Run: SUB-C112583				12/11/08 10:00
Lead 210	120	pCi/L		108	70	130			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_20766
Sample ID: C08110848-001FMS	Sample Matrix Spike				Run: SUB-C112928				12/30/08 11:30
Polonium 210	42	pCi/L	1.0	110	70	130			
Sample ID: C08110848-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C112928				12/30/08 11:30
Polonium 210	47	pCi/L	1.0	114	70	130	12	56.1	
Sample ID: LCS-20766	Laboratory Control Sample				Run: SUB-C112928				12/30/08 11:30
Polonium 210	15	pCi/L	1.0	95	70	130			
Sample ID: MB-20766	Method Blank				Run: SUB-C112928				12/30/08 11:30
Polonium 210	-0.04	pCi/L							U
Method: RMO-3008									Batch: C_PO210-0166
Sample ID: R08110211-014K	Sample Matrix Spike				Run: SUB-C112288				12/11/08 10:19
Polonium 210	45	pCi/L	1.0	105	70	130			
Sample ID: R08110211-014K	Sample Matrix Spike Duplicate				Run: SUB-C112288				12/11/08 10:19
Polonium 210	43	pCi/L	1.0	101	70	130	4.6	54.4	
Sample ID: LCS-PO210-0166	Laboratory Control Sample				Run: SUB-C112288				12/12/08 08:48
Polonium 210	19	pCi/L	1.0	111	70	130			
Sample ID: MB-PO210-0166	Method Blank				Run: SUB-C112288				12/12/08 08:48
Polonium 210	-0.03	pCi/L							U
Method: SW7470A									Analytical Run: SUB-B121239
Sample ID: QCS	Initial Calibration Verification Standard								11/24/08 08:05
Mercury	0.0019	mg/L	0.0010	93	90	110			

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

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Env.	PowerTech DB	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
RESPEC	Allen Scott		Allen Scott
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
RESPEC			

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

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

ANALYSIS REQUESTED

As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 4.8 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	Dew Burd BL401	11-18	8:45	W	0811021L-001
2	GW 696	11-18	8:45	W	002
3	GW 694	11-18	9:00	W	003
4	GW 688	11-18	10:00	W	004
5	GW 680	11-18	10:25	W	005
6	GW 694	11-18	9:05	W	006
7	GW 3026	11-18	11:19	W	007
8	GW 698	11-18	12:00	W	008
9	GW 695	11-18	13:25	W	009
10	GW 697	11-18	13:35	W	010

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	11-19-08 10:36				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Froland	11-19-08 1036	

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, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Env.	Powertech DB	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	Email:	Sampler: (Please Print)
RESPEC	Allen Scott		Allen Scott
Invoice Address:	**Invoice Contact & Phone:**	Purchase Order:	Quote/Bottle Order:
RESPEC			

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

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

ANALYSIS REQUESTED

As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 4.8 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	GW 689	11-18	14:02	W	B0811021-011
2	GW 681	11-18	13:55	W	012
3	GW 615	11-18	15:00	W	013
4	GW 622	11-18	14:30	W	014
5					
6					
7					
8					
9					
10					

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	11-19-08 10:36	Allen Scott			
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory: Steve Forland	Date/Time: 11-19-08 1036	Signature:

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, and links.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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ANALYTICAL SUMMARY REPORT

January 27, 2009

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

Workorder No.: R08120255 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 13 samples for RESPEC Inc on 12/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08120255-001	DewBurd BLK01	12/17/08 10:00	12/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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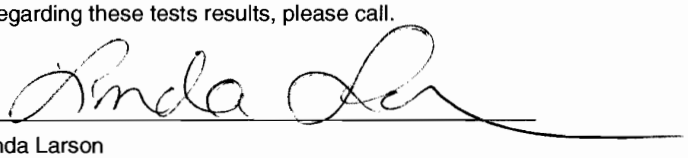
ANALYTICAL SUMMARY REPORT

R08120255-002 DewBurd GW681	12/17/08 10:48 12/18/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08120255-003 DewBurd GW689	12/17/08 11:02 12/18/08	Aqueous	Same As Above
R08120255-004 DewBurd GW3026	12/17/08 12:46 12/18/08	Aqueous	Same As Above
R08120255-005 DewBurd GW698	12/17/08 13:00 12/18/08	Aqueous	Same As Above
R08120255-006 DewBurd GW698	12/17/08 13:15 12/18/08	Aqueous	Same As Above
R08120255-007 DewBurd GW680	12/17/08 13:50 12/18/08	Aqueous	Same As Above
R08120255-008 DewBurd GW622	12/17/08 14:20 12/18/08	Aqueous	Same As Above
R08120255-009 DewBurd GW697	12/17/08 14:45 12/18/08	Aqueous	Same As Above
R08120255-010 DewBurd GW695	12/17/08 15:10 12/18/08	Aqueous	Same As Above
R08120255-011 DewBurd GW694	12/17/08 15:45 12/18/08	Aqueous	Same As Above
R08120255-012 DewBurd GW696	12/17/08 16:05 12/18/08	Aqueous	Same As Above
R08120255-013 DewBurd GW615	12/17/08 11:27 12/18/08	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: 

Linda Larson
Rapid City - Project Manager

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-001
Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
Collection Date: 12/17/08 10:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Calcium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Chloride	ND	mg/L		1		1	E300.0	12/18/08 22:01/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Potassium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	01/05/09 12:39/eli-c
Sulfate	ND	mg/L		1		1	E300.0	12/18/08 22:01/jmh
Silica	ND	mg/L		0.2		2	E200.7	01/05/09 12:39/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/19/08 09:02/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	12/23/08 14:30/jmh
pH	5.67	s.u.		0.01		1	A4500-H B	12/19/08 10:18/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	12	mg/L		5		1	A2540 C	12/22/08 12:05/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 12:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:04/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:39/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/26/08 18:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:04/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-001
Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
Collection Date: 12/17/08 10:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 18:04/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 21:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.5	pCi/L	U			1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	0.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	0.3	pCi/L	U			1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	2.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	2.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 11:36/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	01/09/09 11:36/eli-c
Radium 226	-0.09	pCi/L	U			1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.8	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c

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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: R08120255-001
Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
Collection Date: 12/17/08 10:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.4	pCi/L	U			1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 09:04/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	121	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	50.1	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 01:53/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/30/08 01:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 01:53/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 20:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 01:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 01:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 01:53/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	01/05/09 17:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 01:53/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/30/08 01:53/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:04/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 20:56/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 01:53/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 01:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/02/09 19:32/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	12/30/08 01:53/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 01:53/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/30/08 01:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 16:49/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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-002
Client Sample ID: DewBurd GW681

Report Date: 01/27/09
Collection Date: 12/17/08 10:48
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Calcium	62.9	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Chloride	15	mg/L		1		1	E300.0	12/18/08 22:34/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Magnesium	23.9	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:52/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Potassium	9.7	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Sodium	215	mg/L	D	2		2	E200.7	01/05/09 12:43/eli-c
Sulfate	453	mg/L	D	3		50	E300.0	12/18/08 22:18/jmh
Silica	9.3	mg/L		0.2		2	E200.7	01/05/09 12:43/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B	12/19/08 09:04/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.82	s.u.		0.01		1	A4500-H B	12/19/08 10:22/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	12/22/08 12:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 12:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c

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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: R08120255-002
Client Sample ID: DewBurd GW681

Report Date: 01/27/09
Collection Date: 12/17/08 10:48
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	12/26/08 18:10/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 21:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:12/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1560	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha precision (±)	26.2	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha MDC	3.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta	526	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta precision (±)	8.7	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta MDC	5.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Lead 210	10.7	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	4.8	pCi/L		1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	291	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Radium 226 precision (±)	2.9	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	320	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	53	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	24.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.6	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	9.2	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	2.4	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	1.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-002
Client Sample ID: DewBurd GW681

Report Date: 01/27/09
Collection Date: 12/17/08 10:48
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/07/09 09:04/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2200	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	73.0	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:00/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/30/08 02:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:00/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 21:02/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:00/eli-c
Iron	0.09	mg/L		0.03		2	E200.7	01/05/09 17:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:00/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/30/08 02:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:07/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 21:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:00/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/02/09 19:38/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/30/08 02:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:00/eli-c
Uranium	0.0077	mg/L		0.0003		1	E200.8	12/30/08 02:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 16:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.22	%				1	A1030 E	01/23/09 00:00/jmh
Anions	13.3	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	14.7	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	907	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	01/23/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-003
Client Sample ID: DewBurd GW689

Report Date: 01/27/09
Collection Date: 12/17/08 11:02
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Calcium	54.4	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Chloride	6	mg/L		1		1	E300.0	12/18/08 23:40/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Magnesium	18.1	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Sodium	197	mg/L	D	2		2	E200.7	01/05/09 12:47/eli-c
Sulfate	408	mg/L	D	3		50	E300.0	12/18/08 22:51/jmh
Silica	10.3	mg/L		0.2		2	E200.7	01/05/09 12:47/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B	12/19/08 09:06/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	12/19/08 10:23/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	750	mg/L		5		1	A2540 C	12/22/08 12:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 12:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-003
Client Sample ID: DewBurd GW689

Report Date: 01/27/09
Collection Date: 12/17/08 11:02
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	12/26/08 18:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
METALS - SUSPENDED								
Uranium	0.0011	mg/L	D	0.0009		1	E200.8	01/01/09 21:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:14/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	54.6	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	23.0	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	3.4	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	1.7	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	6.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.4	pCi/L	U			1	E903.0	01/21/09 21:42/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-003
Client Sample ID: DewBurd GW689

Report Date: 01/27/09
Collection Date: 12/17/08 11:02
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 09:04/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1130	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	62.1	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 19:40/eli-c
Arsenic	0.005	mg/L	L	0.003		1	E200.8	12/30/08 19:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 19:40/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/30/08 19:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 19:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 19:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 19:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 19:40/eli-c
Iron	2.38	mg/L		0.03		2	E200.7	01/05/09 19:08/eli-c
Lead	0.004	mg/L		0.001		1	E200.8	12/30/08 19:40/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	12/30/08 19:40/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:09/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/30/08 19:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 19:40/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 19:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/30/08 19:40/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	12/30/08 19:40/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 19:40/eli-c
Uranium	0.0060	mg/L		0.0003		1	E200.8	12/30/08 19:40/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	12/30/08 19:40/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.66	%				1	A1030 E	01/23/09 00:00/jmh
Anions	11.8	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	13.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	815	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	01/23/09 00:00/jmh

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.
L - Lowest available reporting limit for the analytical methoc used.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-004
Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
Collection Date: 12/17/08 12:46
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Calcium	377	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Chloride	16	mg/L		1		1	E300.0	12/19/08 00:46/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Magnesium	120	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Potassium	19.7	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Sodium	164	mg/L	D	2		2	E200.7	01/05/09 13:03/eli-c
Sulfate	1290	mg/L	D	3		50	E300.0	12/18/08 23:56/jmh
Silica	9.6	mg/L		0.2		2	E200.7	01/05/09 13:03/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	12/19/08 09:07/tb
Oxidation-Reduction Potential	310	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.83	s.u.		0.01		1	A4500-H B	12/19/08 10:24/tb
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	12/22/08 12:09/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	01/05/09 13:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:51/eli-c
Iron	6.93	mg/L		0.03		2	E200.7	01/05/09 13:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Manganese	1.18	mg/L		0.01		1	E200.8	12/26/08 18:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/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: R08120255-004
Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
Collection Date: 12/17/08 12:46
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0045	mg/L		0.0003		1	E200.8	12/26/08 18:51/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 21:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.9	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	6.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	6.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	19.0	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	5.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	9.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	2.3	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	2.7	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	4.0	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	01/21/09 21:42/eli-c

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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: R08120255-004
Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
Collection Date: 12/17/08 12:46
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	355	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	52.2	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:06/eli-c
Arsenic	0.009	mg/L		0.001		1	E200.8	12/30/08 02:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:06/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 21:09/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	01/05/09 17:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:06/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:06/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:06/eli-c
Iron	17.0	mg/L		0.03		2	E200.7	01/05/09 17:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:06/eli-c
Manganese	1.08	mg/L		0.01		1	E200.8	12/30/08 02:06/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:11/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 21:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:06/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/02/09 19:45/eli-c
Strontium	5.9	mg/L		0.1		1	E200.8	12/30/08 02:06/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:06/eli-c
Uranium	0.0047	mg/L		0.0003		1	E200.8	12/30/08 02:06/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 17:02/eli-c
DATA QUALITY								
A/C Balance (± 5)	8.46	%				1	A1030 E	01/23/09 00:00/jmh
Anions	31.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	36.7	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2120	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	01/23/09 00:00/jmh

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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: R08120255-005
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Calcium	374	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 01:18/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Magnesium	135	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Sodium	84	mg/L	D	2		2	E200.7	01/05/09 13:07/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	12/19/08 01:02/jmh
Silica	11.3	mg/L		0.2		2	E200.7	01/05/09 13:07/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2290	umhos/cm		5.0		1	A2510 B	12/19/08 09:09/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.92	s.u.		0.01		1	A4500-H B	12/19/08 10:25/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	12/22/08 12:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:58/eli-c
Iron	2.99	mg/L		0.03		2	E200.7	01/05/09 13:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Manganese	2.58	mg/L		0.01		1	E200.8	12/26/08 18:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:58/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:51/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c

Report Definitions:
RL - Analyte reporting limit.
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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: R08120255-005
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0998	mg/L		0.0003		1	E200.8	12/26/08 18:58/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:58/eli-c
METALS - SUSPENDED								
Uranium	0.0028	mg/L	D	0.0009		1	E200.8	01/01/09 21:50/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1570	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	37.7	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	6.7	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	664	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	13.0	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	9.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	4.7	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	363	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	3.1	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.1	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	620	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	63	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.2	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	4.7	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	01/21/09 21:42/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-005
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	37600	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	230	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/14/09 13:58/eli-c
Arsenic	0.004	mg/L	L	0.002		1	E200.8	01/01/09 19:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/01/09 19:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 19:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 19:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/01/09 19:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/01/09 19:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/01/09 19:35/eli-c
Iron	4.66	mg/L		0.03		2	E200.7	01/05/09 19:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/01/09 19:35/eli-c
Manganese	2.54	mg/L		0.01		1	E200.8	01/01/09 19:35/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:19/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 19:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/01/09 19:35/eli-c
Selenium	ND	mg/L	L	0.002		1	E200.8	01/01/09 19:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 19:35/eli-c
Strontium	4.9	mg/L		0.1		1	E200.8	01/01/09 19:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/01/09 19:35/eli-c
Uranium	0.112	mg/L		0.0003		1	E200.8	01/01/09 19:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/08/09 17:22/eli-c
-Sb fails high in LCS, since sample is ND it is not effected by the high bias. Rdw								
DATA QUALITY								
A/C Balance (± 5)	5.82	%				1	A1030 E	01/23/09 00:00/jmh
Anions	30.4	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	34.2	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	01/23/09 00:00/jmh

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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
L - Lowest available reporting limit for the analytical methoc used.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-006
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:15
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Calcium	392	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 01:51/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Magnesium	143	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:59/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Potassium	16.2	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Sodium	90	mg/L	D	2		2	E200.7	01/05/09 13:11/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	12/19/08 01:35/jmh
Silica	11.4	mg/L		0.2		2	E200.7	01/05/09 13:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2320	umhos/cm		5.0		1	A2510 B	12/19/08 09:10/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.86	s.u.		0.01		1	A4500-H B	12/19/08 10:26/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	12/22/08 12:12/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:05/eli-c
Iron	0.22	mg/L		0.03		2	E200.7	01/05/09 13:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Manganese	2.63	mg/L		0.01		1	E200.8	12/26/08 19:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c

Report Definitions:
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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: R08120255-006
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:15
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0956	mg/L		0.0003		1	E200.8	12/26/08 19:05/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:05/eli-c
METALS - SUSPENDED								
Uranium	0.0055	mg/L	D	0.0009		1	E200.8	01/01/09 22:10/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1730	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	39.2	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	6.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	626	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	12.6	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	9.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	4.1	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.42	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	335	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	3.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	650	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	66	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.4	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	21.6	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0	01/21/09 21:42/eli-c

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-006
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:15
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	0.3	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	36700	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	227	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 19:47/eli-c
Arsenic	0.004	mg/L	L	0.003		1	E200.8	12/30/08 19:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 19:47/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/30/08 19:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 19:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 19:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 19:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 19:47/eli-c
Iron	4.56	mg/L		0.03		2	E200.7	01/05/09 19:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 19:47/eli-c
Manganese	2.40	mg/L		0.01		1	E200.8	12/30/08 19:47/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:21/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/30/08 19:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 19:47/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	12/30/08 19:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/30/08 19:47/eli-c
Strontium	4.6	mg/L		0.1		1	E200.8	12/30/08 19:47/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 19:47/eli-c
Uranium	0.107	mg/L		0.0003		1	E200.8	12/30/08 19:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/30/08 19:47/eli-c
DATA QUALITY								
A/C Balance (± 5)	8.29	%				1	A1030 E	01/23/09 00:00/jmh
Anions	30.4	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	35.9	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2090	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	01/23/09 00:00/jmh

Report Definitions:
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ND - Not detected at the reporting limit.
L - Lowest available reporting limit for the analytical methoc used.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-007
Client Sample ID: DewBurd GW680

Report Date: 01/27/09
Collection Date: 12/17/08 13:50
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Calcium	396	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Chloride	13	mg/L		1		1	E300.0	12/19/08 02:57/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Magnesium	128	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Potassium	19.3	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Sodium	151	mg/L	D	2		2	E200.7	01/05/09 13:15/eli-c
Sulfate	1310	mg/L	D	3		50	E300.0	12/19/08 02:08/jmh
Silica	9.4	mg/L		0.2		2	E200.7	01/05/09 13:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	12/19/08 09:12/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.23	s.u.		0.01		1	A4500-H B	12/19/08 10:28/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	12/22/08 12:12/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	01/05/09 13:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	01/05/09 13:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Manganese	0.49	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/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.
D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-007
Client Sample ID: DewBurd GW680

Report Date: 01/27/09
Collection Date: 12/17/08 13:50
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0199	mg/L		0.0003		1	E200.8	12/26/08 19:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5140	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	71.3	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	7.4	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	2070	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	23.6	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	10.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	6.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1110	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 precision (±)	5.5	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	1500	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	96	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.9	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	2.8	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	13.1	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	01/21/09 21:42/eli-c

Report Definitions:
RL - Analyte reporting limit.
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MDC - Minimum detectable concentration
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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: R08120255-007
Client Sample ID: DewBurd GW680

Report Date: 01/27/09
Collection Date: 12/17/08 13:50
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.3	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	62200	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	293	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:13/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/30/08 02:13/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:13/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 21:16/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 17:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:13/eli-c
Iron	0.35	mg/L		0.03		2	E200.7	01/05/09 17:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:13/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	12/30/08 02:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:23/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 21:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:13/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/02/09 19:52/eli-c
Strontium	7.2	mg/L		0.1		1	E200.8	12/30/08 02:13/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:13/eli-c
Uranium	0.0203	mg/L		0.0003		1	E200.8	12/30/08 02:13/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	01/12/09 17:44/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.75	%				1	A1030 E	01/23/09 00:00/jmh
Anions	32.7	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	37.4	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2190	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	01/23/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-008
Client Sample ID: DewBurd GW622

Report Date: 01/27/09
Collection Date: 12/17/08 14:20
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	146	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Bicarbonate as HCO3	178	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Calcium	73.0	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 04:03/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Magnesium	31.4	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:01/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Potassium	10.4	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Sodium	178	mg/L	D	2		2	E200.7	01/05/09 13:19/eli-c
Sulfate	476	mg/L	D	3		50	E300.0	12/19/08 03:13/jmh
Silica	5.8	mg/L		0.2		2	E200.7	01/05/09 13:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1220	umhos/cm		5.0		1	A2510 B	12/19/08 09:13/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.46	s.u.		0.01		1	A4500-H B	12/19/08 10:35/tb
Sodium Adsorption Ratio (SAR)	4.4	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	12/22/08 12:13/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:18/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
Iron	0.09	mg/L		0.03		2	E200.7	01/05/09 13:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Manganese	0.28	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:18/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:03/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-008
Client Sample ID: DewBurd GW622

Report Date: 01/27/09
Collection Date: 12/17/08 14:20
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 19:18/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.8	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Gross Alpha MDC	3.0	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Gross Beta	9.6	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Gross Beta MDC	3.9	pCi/L				1	E900.0	01/14/09 01:15/eli-ca
Lead 210	2.5	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.13	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.3	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	3.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.8	pCi/L				1	E903.0	01/21/09 21:42/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-008
Client Sample ID: DewBurd GW622

Report Date: 01/27/09
Collection Date: 12/17/08 14:20
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	50.2	pCi/L	U	100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	47.5	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:20/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/30/08 02:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:20/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 22:58/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:20/eli-c
Iron	11.0	mg/L		0.03		2	E200.7	01/05/09 17:23/eli-c
Lead	0.005	mg/L		0.001		1	E200.8	12/30/08 02:20/eli-c
Manganese	0.27	mg/L		0.01		1	E200.8	12/30/08 02:20/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:30/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 22:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:20/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 22:58/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/30/08 02:20/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:20/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/30/08 02:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 17:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.09	%				1	A1030 E	01/23/09 00:00/jmh
Anions	13.1	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	14.3	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	883	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	01/23/09 00:00/jmh

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-009
Client Sample ID: DewBurd GW697

Report Date: 01/27/09
Collection Date: 12/17/08 14:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Calcium	53.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Chloride	8	mg/L		1		1	E300.0	12/19/08 04:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Magnesium	17.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:02/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Potassium	8.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Sodium	210	mg/L	D	2		2	E200.7	01/05/09 13:23/eli-c
Sulfate	442	mg/L	D	3		50	E300.0	12/19/08 04:19/jmh
Silica	9.5	mg/L		0.2		2	E200.7	01/05/09 13:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1190	umhos/cm		5.0		1	A2510 B	12/19/08 09:15/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.98	s.u.		0.01		1	A4500-H B	12/19/08 10:38/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	12/22/08 12:13/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 13:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c

Report Definitions:
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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: R08120255-009
Client Sample ID: DewBurd GW697

Report Date: 01/27/09
Collection Date: 12/17/08 14:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 19:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.7	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Gross Alpha MDC	2.9	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Gross Beta	7.1	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Gross Beta MDC	3.9	pCi/L				1	E900.0	01/14/09 01:15/eli-cs
Lead 210	1.6	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	820	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	2.8	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.07	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-009
Client Sample ID: DewBurd GW697

Report Date: 01/27/09
Collection Date: 12/17/08 14:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	200	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	49.5	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/30/08 02:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:26/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:26/eli-c
Iron	0.34	mg/L		0.03		2	E200.7	01/05/09 17:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:26/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/30/08 02:26/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:33/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:26/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:05/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/30/08 02:26/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:26/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/30/08 02:26/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	01/12/09 17:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.60	%				1	A1030 E	01/23/09 00:00/jmh
Anions	12.8	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	13.5	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	866	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	01/23/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-010
Client Sample ID: DewBurd GW695

Report Date: 01/27/09
Collection Date: 12/17/08 15:10
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Calcium	50.9	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Chloride	12	mg/L		1		1	E300.0	12/19/08 05:08/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Magnesium	18.4	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Potassium	8.6	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Sodium	247	mg/L	D	2		2	E200.7	01/05/09 13:36/eli-c
Sulfate	483	mg/L	D	3		50	E300.0	12/19/08 04:52/jmh
Silica	8.8	mg/L		0.2		2	E200.7	01/05/09 13:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	12/19/08 09:16/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	12/19/08 10:39/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	12/22/08 12:14/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 13:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:32/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-010
Client Sample ID: DewBurd GW695

Report Date: 01/27/09
Collection Date: 12/17/08 15:10
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/26/08 19:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:26/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	26.8	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Gross Alpha MDC	3.4	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Gross Beta	13.0	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Gross Beta MDC	5.4	pCi/L				1	E900.0	01/14/09 01:15/eli-cα
Lead 210	3.4	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.13	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	4.8	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	850	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	5.9	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-010
Client Sample ID: DewBurd GW695

Report Date: 01/27/09
Collection Date: 12/17/08 15:10
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1880	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	68.3	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:33/eli-c
Iron	0.17	mg/L		0.03		2	E200.7	01/05/09 17:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/30/08 02:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:35/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:12/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	12/30/08 02:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/30/08 02:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:04/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.06	%				1	A1030 E	01/23/09 00:00/jmh
Anions	13.8	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	15.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	947	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	01/23/09 00:00/jmh

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-011
Client Sample ID: DewBurd GW694

Report Date: 01/27/09
Collection Date: 12/17/08 15:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	204	mg/L		5		1	A2320 B	12/23/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:18/mb
Bicarbonate as HCO3	249	mg/L		5		1	A2320 B	12/23/08 11:18/mb
Calcium	96.1	mg/L		0.5		2	E200.7	01/05/09 14:00/eli-c
Chloride	9	mg/L		1		1	E300.0	12/19/08 06:14/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/19/08 06:14/jmh
Magnesium	36.0	mg/L		0.5		2	E200.7	01/05/09 14:00/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 06:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 06:14/jmh
Potassium	12.9	mg/L		0.5		2	E200.7	01/05/09 14:00/eli-c
Sodium	172	mg/L	D	2		2	E200.7	01/05/09 14:00/eli-c
Sulfate	507	mg/L	D	3		50	E300.0	12/19/08 05:25/jmh
Silica	9.5	mg/L		0.2		2	E200.7	01/05/09 14:00/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	12/19/08 09:17/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.70	s.u.		0.01		1	A4500-H B	12/19/08 10:40/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C	12/22/08 12:15/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 20:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 20:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 20:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 14:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 20:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 20:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 20:19/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 14:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 20:19/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	12/26/08 20:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 20:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 20:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 20:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 20:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 20:19/eli-c

Report Definitions:
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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: R08120255-011
Client Sample ID: DewBurd GW694

Report Date: 01/27/09
Collection Date: 12/17/08 15:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/26/08 20:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:19/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha MDC	3.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta	7.7	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta MDC	4.5	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Lead 210	2.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.5	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	850	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	1.7	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-011
Client Sample ID: DewBurd GW694

Report Date: 01/27/09
Collection Date: 12/17/08 15:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	215	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	49.3	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:39/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:39/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:18/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 18:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:39/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	01/05/09 18:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/30/08 02:39/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:39/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:18/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	12/30/08 02:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/30/08 02:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:11/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.21	%				1	A1030 E	01/23/09 00:00/jmh
Anions	14.9	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	15.6	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	981	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	01/23/09 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-012
Client Sample ID: DewBurd GW696

Report Date: 01/27/09
Collection Date: 12/17/08 16:05
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Calcium	29.8	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Chloride	13	mg/L		1		1	E300.0	12/19/08 07:20/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Magnesium	10.4	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Potassium	9.0	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Sodium	280	mg/L	D	2		2	E200.7	01/05/09 14:04/eli-c
Sulfate	459	mg/L	D	3		50	E300.0	12/19/08 06:30/jmh
Silica	9.9	mg/L		0.2		2	E200.7	01/05/09 14:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	12/19/08 09:20/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	12/23/08 14:30/jmh
pH	8.14	s.u.		0.01		1	A4500-H B	12/19/08 10:42/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	12/22/08 12:17/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 14:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 20:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 14:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 20:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-012
Client Sample ID: DewBurd GW696

Report Date: 01/27/09
Collection Date: 12/17/08 16:05
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 20:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:34/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.2	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Gross Alpha MDC	3.4	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Gross Beta	9.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Gross Beta MDC	4.0	pCi/L				1	E900.0	01/14/09 01:14/eli-cs
Lead 210	3.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.14	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	0.8	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cs
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	840	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

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ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-012
Client Sample ID: DewBurd GW696

Report Date: 01/27/09
Collection Date: 12/17/08 16:05
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	182	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	48.8	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:46/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/30/08 02:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:46/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:46/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:46/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	01/05/09 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:46/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/30/08 02:46/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:40/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:46/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:25/eli-c
Strontium	0.7	mg/L		0.1		1	E200.8	12/30/08 02:46/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/30/08 02:46/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:18/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.39	%				1	A1030 E	01/23/09 00:00/jmh
Anions	13.5	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	14.8	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	936	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	01/23/09 00:00/jmh

Report Definitions:
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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: R08120255-013
Client Sample ID: DewBurd GW615

Report Date: 01/27/09
Collection Date: 12/17/08 11:27
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	140	mg/L		5		1	A2320 B	12/23/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:24/mb
Bicarbonate as HCO3	171	mg/L		5		1	A2320 B	12/23/08 11:24/mb
Calcium	72.2	mg/L		0.5		2	E200.7	01/05/09 14:09/eli-c
Chloride	5	mg/L		1		1	E300.0	12/19/08 07:52/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	12/19/08 07:52/jmh
Magnesium	21.4	mg/L		0.5		2	E200.7	01/05/09 14:09/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:52/jmh
Potassium	8.7	mg/L		0.5		2	E200.7	01/05/09 14:09/eli-c
Sodium	131	mg/L	D	2		2	E200.7	01/05/09 14:09/eli-c
Sulfate	388	mg/L	D	3		50	E300.0	12/19/08 07:36/jmh
Silica	8.9	mg/L		0.2		2	E200.7	01/05/09 14:09/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	965	umhos/cm		5.0		1	A2510 B	12/19/08 09:22/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.34	s.u.		0.01		1	A4500-H B	12/19/08 10:44/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C	12/22/08 12:19/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 20:33/eli-c
Arsenic	0.011	mg/L		0.001		1	E200.8	12/26/08 20:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 20:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 14:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 20:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 20:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 20:33/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	01/05/09 14:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 20:33/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/26/08 20:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 20:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 20:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 20:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 20:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 20:33/eli-c

Report Definitions:
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-013
Client Sample ID: DewBurd GW615

Report Date: 01/27/09
Collection Date: 12/17/08 11:27
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	12/26/08 20:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.7	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Alpha MDC	2.4	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta	12.8	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Gross Beta MDC	3.1	pCi/L				1	E900.0	01/14/09 01:14/eli-cα
Lead 210	2.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	2.1	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-cα
Thorium 230	0.3	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	960	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-013
Client Sample ID: DewBurd GW615

Report Date: 01/27/09
Collection Date: 12/17/08 11:27
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1710	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	68.2	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 03:19/eli-c
Arsenic	0.023	mg/L		0.001		1	E200.8	12/30/08 03:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 03:19/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:32/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 18:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 03:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 03:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 03:19/eli-c
Iron	1.37	mg/L		0.03		2	E200.7	01/05/09 18:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 03:19/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/30/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:47/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 03:19/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 03:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:32/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	12/30/08 03:19/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 03:19/eli-c
Uranium	0.0023	mg/L		0.0003		1	E200.8	12/30/08 03:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.01	%				1	A1030 E	01/23/09 00:00/jmh
Anions	11.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	11.3	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	735	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	01/23/09 00:00/jmh

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 081223A-ALK-SEL-W	
Sample ID: LCS1_081223A	Laboratory Control Sample				Run: PH_COND1-R_081223A			12/23/08 09:08	
Alkalinity, Total as CaCO3	936	mg/L	5.0	94	90	110			
Sample ID: MBLK1_081223A	Method Blank				Run: PH_COND1-R_081223A			12/23/08 09:09	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08120249-005AMS	Sample Matrix Spike				Run: PH_COND1-R_081223A			12/23/08 09:47	
Alkalinity, Total as CaCO3	382	mg/L	5.0	96	80	120			
Sample ID: R08120249-005AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_081223A			12/23/08 09:50	
Alkalinity, Total as CaCO3	380	mg/L	5.0	94	80	120	0.5	10	
Sample ID: R08120255-006AMS	Sample Matrix Spike				Run: PH_COND1-R_081223A			12/23/08 10:40	
Alkalinity, Total as CaCO3	182	mg/L	5.0	64	80	120			S
Sample ID: R08120255-006AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_081223A			12/23/08 10:52	
Alkalinity, Total as CaCO3	198	mg/L	5.0	79	80	120	8.4	10	S
Method: A2510 B								Batch: 081219_1_COND-PROBE-W	
Sample ID: LCS_COND-1_081219	Laboratory Control Sample				Run: PH_COND2-R_081219B			12/19/08 08:44	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_081219	Laboratory Control Sample				Run: PH_COND2-R_081219B			12/19/08 08:45	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_081219	Laboratory Control Sample				Run: PH_COND2-R_081219B			12/19/08 08:47	
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_081219	Method Blank				Run: PH_COND2-R_081219B			12/19/08 08:48	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08120255-001ADUP	Sample Duplicate				Run: PH_COND2-R_081219B			12/19/08 09:03	
Conductivity @ 25 C	ND	umhos/cm	5.0				0	10	
Sample ID: R08120255-011ADUP	Sample Duplicate				Run: PH_COND2-R_081219B			12/19/08 09:18	
Conductivity @ 25 C	1320	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 081222A-SLDS-TDS-W	
Sample ID: LCS1_081222A	Laboratory Control Sample				Run: BAL-4-R_081222A			12/22/08 11:36	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	7.6	99	90	110			
Sample ID: MBLK1_081222A	Method Blank				Run: BAL-4-R_081222A			12/22/08 11:38	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	8						
Sample ID: R08120255-013AMS	Sample Matrix Spike				Run: BAL-4-R_081222A			12/22/08 12:20	
Solids, Total Dissolved TDS @ 180 C	880	mg/L	5.0	91	80	120			
Sample ID: R08120255-013AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_081222A			12/22/08 12:20	
Solids, Total Dissolved TDS @ 180 C	850	mg/L	5.0	76	80	120	3.5	10	S
Method: A2580 B								Batch: 081223-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08120255-001F	Sample Duplicate				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	290	mV					0.8	10	
Sample ID: R08120255-011F	Sample Duplicate				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	270	mV					0.3	10	
Method: A3114 B								Batch: C_SE3114-090109B	
Sample ID: MBLK	Method Blank				Run: SUB-C113244			01/09/09 15:31	
Selenium	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample				Run: SUB-C113244			01/09/09 15:33	
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike				Run: SUB-C113244			01/09/09 16:12	
Selenium	0.057	mg/L	0.0010	113	85	115			
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate				Run: SUB-C113244			01/09/09 16:14	
Selenium	0.058	mg/L	0.0010	116	85	115	2.5	15	S
Sample ID: R08120255-001E	Sample Matrix Spike				Run: SUB-C113244			01/09/09 15:40	
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate				Run: SUB-C113244			01/09/09 15:42	
Selenium	0.057	mg/L	0.0010	113	85	115	2.8	15	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV3114-090108	
Sample ID: MBLK	Method Blank				Run: SUB-C113187			01/08/09 14:58	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample				Run: SUB-C113187			01/08/09 15:00	
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike				Run: SUB-C113187			01/08/09 15:42	
Selenium-IV	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate				Run: SUB-C113187			01/08/09 15:44	
Selenium-IV	0.044	mg/L	0.0010	87	85	115	4.4	10	
Sample ID: R08120255-001E	Sample Matrix Spike				Run: SUB-C113187			01/08/09 15:07	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate				Run: SUB-C113187			01/08/09 15:10	
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.8	10	
Method: A4500-H B								Batch: 081219_1_PH-W	
Sample ID: LCS_pH-1_081219	Laboratory Control Sample				Run: PH_COND2-R_081219A			12/19/08 09:45	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08120255-001ADUP	Sample Duplicate				Run: PH_COND2-R_081219A			12/19/08 10:20	
pH	5.64	s.u.	0.010				0.5	1.25	
Sample ID: R08120255-011ADUP	Sample Duplicate				Run: PH_COND2-R_081219A			12/19/08 10:41	
pH	7.72	s.u.	0.010				0.3	1.25	

Qualifiers:

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ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-12-26_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_081226A			12/26/08 14:12	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_081226A			12/26/08 14:13	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_081226A			12/26/08 14:14	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	110	90	110			
Sample ID: R08120255-002BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A			12/26/08 14:53	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120			
Sample ID: R08120255-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A			12/26/08 14:54	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120	0.3	10	
Sample ID: R08120255-010BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A			12/26/08 15:07	
Nitrogen, Ammonia as N	0.42	mg/L	0.10	100	80	120			
Sample ID: R08120255-010BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A			12/26/08 15:08	
Nitrogen, Ammonia as N	0.45	mg/L	0.10	109	80	120	5.3	10	
Method: D5072-92								Batch: C_R112582	
Sample ID: R08120255-013G	Sample Duplicate				Run: SUB-C112582			12/19/08 15:40	
Radon 222	1650	pCi/L	100				4.1	30	
Sample ID: MB-R112582	Method Blank				Run: SUB-C112582			12/19/08 15:40	
Radon 222	30	pCi/L							U
Sample ID: LCS-R112582	Laboratory Control Sample				Run: SUB-C112582			12/19/08 15:40	
Radon 222	304	pCi/L	100	90	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_20978	
Sample ID: MB-20978	Method Blank				Run: SUB-C113039			01/05/09 19:00	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C113039			01/05/09 19:04	
Boron	0.516	mg/L	0.10	103	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike				Run: SUB-C113039			01/05/09 19:29	
Boron	0.658	mg/L	0.10	104	70	130			
Iron	3.53	mg/L	0.030	110	70	130			
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 19:33	
Boron	0.647	mg/L	0.10	102	70	130	1.7	20	
Iron	3.34	mg/L	0.030	102	70	130	5.4	20	
Method: E200.7								Batch: C_20993	
Sample ID: MB-20993	Method Blank				Run: SUB-C113039			01/05/09 19:49	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20993	Laboratory Control Sample				Run: SUB-C113039			01/05/09 19:53	
Boron	0.533	mg/L	0.10	107	85	115			
Iron	2.64	mg/L	0.030	106	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113039			01/05/09 20:17	
Boron	1.42	mg/L	0.10	101	70	130			
Iron	33.4	mg/L	0.030		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 20:21	
Boron	1.51	mg/L	0.10	119	70	130	6	20	
Iron	34.1	mg/L	0.030		70	130	2.3	20	A

Qualifiers:

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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.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R113039	
Sample ID: MB-090105A	Method Blank				Run: SUB-C113039			01/05/09 12:11	
Silicon	ND	mg/L	0.02						
Boron	0.02	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						
Silica	ND	mg/L	0.04						
Sample ID: LFB-0090105A	Laboratory Fortified Blank				Run: SUB-C113039			01/05/09 12:15	
Silicon	0.38	mg/L	0.021	96	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	50	mg/L	0.50	99	85	125			
Iron	1.0	mg/L	0.030	101	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Silica	0.82	mg/L	0.044	96	85	125			
Sample ID: R08120255-012D	Sample Matrix Spike				Run: SUB-C113039			01/05/09 18:28	
Boron	2.19	mg/L	0.10	105	70	130			
Iron	2.20	mg/L	0.030	102	70	130			
Silicon	5.43	mg/L	0.10		70	130			A
Calcium	136	mg/L	1.0	105	70	130			
Magnesium	116	mg/L	1.0	106	70	130			
Potassium	102	mg/L	1.0	93	70	130			
Sodium	394	mg/L	1.1	102	70	130			
Silica	11.6	mg/L	0.21		70	130			A
Sample ID: R08120255-012D	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 18:32	
Boron	2.26	mg/L	0.10	109	70	130	3.2	20	
Iron	2.28	mg/L	0.030	106	70	130	3.5	20	
Silicon	5.59	mg/L	0.10		70	130	2.9	20	A
Calcium	137	mg/L	1.0	106	70	130	1	20	
Magnesium	118	mg/L	1.0	107	70	130	1.4	20	
Potassium	103	mg/L	1.0	94	70	130	1	20	
Sodium	412	mg/L	1.1	120	70	130	4.5	20	
Silica	12.0	mg/L	0.21		70	130	2.9	20	A
Sample ID: C08120680-001BMS2	Sample Matrix Spike				Run: SUB-C113039			01/05/09 12:23	
Boron	2.45	mg/L	0.10	107	70	130			
Iron	11.4	mg/L	0.030		70	130			A
Silicon	6.58	mg/L	0.10		70	130			A
Calcium	501	mg/L	1.0	109	70	130			

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R113039	
Sample ID: C08120680-001BMS2	Sample Matrix Spike				Run: SUB-C113039			01/05/09 12:23	
Magnesium	204	mg/L	1.0	105	70	130			
Potassium	103	mg/L	1.0	91	70	130			
Sodium	873	mg/L	1.5		70	130			A
Silica	14.1	mg/L	0.21		70	130			A
Sample ID: C08120680-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 12:27	
Boron	2.44	mg/L	0.10	107	70	130	0.3	20	
Iron	11.4	mg/L	0.030		70	130	0.5	20	A
Silicon	6.56	mg/L	0.10		70	130	0.2	20	A
Calcium	494	mg/L	1.0	103	70	130	1.2	20	
Magnesium	203	mg/L	1.0	104	70	130	0.6	20	
Potassium	102	mg/L	1.0	90	70	130	1.2	20	
Sodium	871	mg/L	1.5		70	130	0.2	20	A
Silica	14.0	mg/L	0.21		70	130	0.2	20	A
Sample ID: R08120255-009C	Sample Matrix Spike				Run: SUB-C113039			01/05/09 13:28	
Boron	2.29	mg/L	0.10	111	70	130			
Iron	2.15	mg/L	0.030	106	70	130			
Silicon	5.21	mg/L	0.10		70	130			A
Calcium	158	mg/L	1.0	104	70	130			
Magnesium	124	mg/L	1.0	106	70	130			
Potassium	98.7	mg/L	1.0	90	70	130			
Sodium	304	mg/L	1.5	94	70	130			
Silica	11.1	mg/L	0.21		70	130			A
Sample ID: R08120255-009C	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 13:32	
Boron	2.25	mg/L	0.10	109	70	130	1.9	20	
Iron	2.14	mg/L	0.030	106	70	130	0.4	20	
Silicon	5.07	mg/L	0.10		70	130	2.7	20	A
Calcium	154	mg/L	1.0	101	70	130	2.2	20	
Magnesium	121	mg/L	1.0	104	70	130	2.2	20	
Potassium	102	mg/L	1.0	93	70	130	3.1	20	
Sodium	318	mg/L	1.5	108	70	130	4.5	20	
Silica	10.8	mg/L	0.21		70	130	2.7	20	A
Sample ID: C08120680-001DMS2	Sample Matrix Spike				Run: SUB-C113039			01/05/09 16:38	
Boron	2.35	mg/L	0.10	105	70	130			
Iron	11.0	mg/L	0.030		70	130			A
Silicon	6.35	mg/L	0.10		70	130			A
Calcium	485	mg/L	1.0	95	70	130			
Magnesium	202	mg/L	1.0	102	70	130			
Potassium	101	mg/L	1.0	88	70	130			
Sodium	845	mg/L	1.1		70	130			A
Silica	13.6	mg/L	0.21		70	130			A

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R113039	
Sample ID: C08120680-001DMS2	Sample Matrix Spike				Run: SUB-C113039			01/05/09 16:38	
Sample ID: C08120680-001DMSD2	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 16:42	
Boron	2.36	mg/L	0.10	106	70	130	0.4	20	
Iron	11.3	mg/L	0.030		70	130	2.4	20	A
Silicon	6.44	mg/L	0.10		70	130	1.3	20	A
Calcium	488	mg/L	1.0	98	70	130	0.6	20	
Magnesium	203	mg/L	1.0	104	70	130	0.6	20	
Potassium	103	mg/L	1.0	91	70	130	2.1	20	
Sodium	861	mg/L	1.1		70	130	2	20	A
Silica	13.8	mg/L	0.21		70	130	1.3	20	A

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: MB-20978	Method Blank				Run: SUB-C112889				12/30/08 19:20
Antimony	0.0002	mg/L	7E-05						
Arsenic	0.003	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Beryllium	3E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	0.004	mg/L	4E-05						
Copper	0.0007	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	8E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	3E-05						
Strontium	ND	mg/L	3E-05						
Thallium	0.0004	mg/L	1E-05						
Uranium	3E-05	mg/L	1E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: MB-20978	Method Blank				Run: SUB-C112947				01/01/09 17:07
Antimony	0.0009	mg/L	0.0002						
Arsenic	0.003	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.002	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	6E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0004	mg/L	6E-05						
Selenium	0.0007	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0008	mg/L	0.0003						
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C112947				01/01/09 17:13
Antimony	0.559	mg/L	0.050	112	85	115			
Arsenic	0.515	mg/L	0.0010	102	85	115			
Barium	0.519	mg/L	0.10	104	85	115			
Beryllium	0.256	mg/L	0.010	102	85	115			
Cadmium	0.254	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C112947				01/01/09 17:13
Chromium	0.528	mg/L	0.050	105	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.536	mg/L	0.10	107	85	115			
Nickel	0.479	mg/L	0.050	96	85	115			
Selenium	0.517	mg/L	0.0010	103	85	115			
Silver	0.0485	mg/L	0.010	97	85	115			
Strontium	0.538	mg/L	0.10	108	85	115			
Thallium	0.535	mg/L	0.10	107	85	115			
Uranium	0.538	mg/L	0.00030	108	85	115			
Zinc	0.489	mg/L	0.010	98	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike				Run: SUB-C112947				01/01/09 18:14
Antimony	0.604	mg/L	0.050	114	70	130			
Arsenic	0.514	mg/L	0.0010	102	70	130			
Barium	0.647	mg/L	0.10	106	70	130			
Beryllium	0.242	mg/L	0.010	97	70	130			
Cadmium	0.252	mg/L	0.010	99	70	130			
Chromium	0.528	mg/L	0.050	101	70	130			
Copper	1.69	mg/L	0.010	103	70	130			
Lead	0.509	mg/L	0.050	84	70	130			
Manganese	2.60	mg/L	0.010	102	70	130			
Molybdenum	0.553	mg/L	0.10	109	70	130			
Nickel	0.494	mg/L	0.050	95	70	130			
Selenium	0.504	mg/L	0.0010	98	70	130			
Silver	0.0619	mg/L	0.010	108	70	130			
Strontium	0.911	mg/L	0.10	105	70	130			
Thallium	0.417	mg/L	0.10	83	70	130			
Uranium	0.459	mg/L	0.00030	90	70	130			
Zinc	2.84	mg/L	0.010		70	130			A
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112947				01/01/09 18:21
Antimony	0.599	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	0.5	20	
Barium	0.644	mg/L	0.10	105	70	130	0.5	20	
Beryllium	0.245	mg/L	0.010	98	70	130	1.1	20	
Cadmium	0.251	mg/L	0.010	99	70	130	0.5	20	
Chromium	0.524	mg/L	0.050	100	70	130	0.8	20	
Copper	1.67	mg/L	0.010	98	70	130	1.4	20	
Lead	0.505	mg/L	0.050	84	70	130	0.7	20	
Manganese	2.56	mg/L	0.010	101	70	130	1.2	20	
Molybdenum	0.548	mg/L	0.10	108	70	130	0.9	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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112947				01/01/09 18:21
Nickel	0.490	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.498	mg/L	0.0010	97	70	130	1.1	20	
Silver	0.0564	mg/L	0.010	97	70	130	9.2	20	
Strontium	0.892	mg/L	0.10	101	70	130	2.1	20	
Thallium	0.413	mg/L	0.10	83	70	130	1.1	20	
Uranium	0.455	mg/L	0.00030	89	70	130	0.8	20	
Zinc	2.84	mg/L	0.010		70	130	0.2	20	A
Method: E200.8									Batch: C_20988
Sample ID: MB-20988	Method Blank				Run: SUB-C112968				01/01/09 21:17
Uranium	ND	mg/L	0.004						
Sample ID: LCS1-20988	Laboratory Control Sample				Run: SUB-C112968				01/01/09 21:21
Uranium	0.0977	mg/L	0.0037	98	80	120			

Qualifiers:

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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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20993
Sample ID: MB-20993	Method Blank				Run: SUB-C112947				01/01/09 18:34
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.0008	mg/L	0.0002						
Lead	7E-05	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0001	mg/L	6E-05						
Selenium	0.001	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	0.0004	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Zinc	0.005	mg/L	0.0003						
Sample ID: LCS3-20993	Laboratory Control Sample				Run: SUB-C112947				01/01/09 18:41
Arsenic	0.536	mg/L	0.0010	107	85	115			
Barium	0.548	mg/L	0.10	110	85	115			
Beryllium	0.257	mg/L	0.010	103	85	115			
Cadmium	0.267	mg/L	0.010	107	85	115			
Chromium	0.550	mg/L	0.050	110	85	115			
Copper	0.508	mg/L	0.010	101	85	115			
Lead	0.546	mg/L	0.050	109	85	115			
Manganese	2.78	mg/L	0.010	111	85	115			
Molybdenum	0.560	mg/L	0.10	112	85	115			
Nickel	0.504	mg/L	0.050	101	85	115			
Selenium	0.537	mg/L	0.0010	107	85	115			
Silver	0.0507	mg/L	0.010	101	85	115			
Strontium	0.560	mg/L	0.10	112	85	115			
Thallium	0.555	mg/L	0.10	111	85	115			
Uranium	0.568	mg/L	0.00030	113	85	115			
Zinc	0.516	mg/L	0.010	102	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C112947				01/01/09 20:09
Arsenic	0.528	mg/L	0.0010	102	70	130			
Barium	4.61	mg/L	0.10		70	130			A
Beryllium	0.240	mg/L	0.010	96	70	130			
Cadmium	0.254	mg/L	0.010	98	70	130			
Chromium	0.551	mg/L	0.050	98	70	130			
Copper	0.903	mg/L	0.010	93	70	130			
Lead	0.647	mg/L	0.050	106	70	130			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20993
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C112947				01/01/09 20:09
Manganese	3.19	mg/L	0.010	99	70	130			
Molybdenum	0.682	mg/L	0.10	109	70	130			
Nickel	0.516	mg/L	0.050	94	70	130			
Selenium	0.372	mg/L	0.0010	74	70	130			
Silver	0.0470	mg/L	0.010	93	70	130			
Strontium	1.18	mg/L	0.10	106	70	130			
Thallium	0.528	mg/L	0.10	106	70	130			
Uranium	0.582	mg/L	0.00030	114	70	130			
Zinc	3.43	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112947				01/01/09 20:15
Arsenic	0.530	mg/L	0.0010	102	70	130	0.3	20	
Barium	4.96	mg/L	0.10		70	130	7.3	20	A
Beryllium	0.231	mg/L	0.010	92	70	130	3.9	20	
Cadmium	0.253	mg/L	0.010	97	70	130	0.4	20	
Chromium	0.534	mg/L	0.050	95	70	130	3.1	20	
Copper	0.931	mg/L	0.010	99	70	130	3	20	
Lead	0.645	mg/L	0.050	105	70	130	0.3	20	
Manganese	3.07	mg/L	0.010	94	70	130	3.8	20	
Molybdenum	0.684	mg/L	0.10	109	70	130	0.2	20	
Nickel	0.518	mg/L	0.050	94	70	130	0.4	20	
Selenium	0.370	mg/L	0.0010	74	70	130	0.6	20	
Silver	0.0472	mg/L	0.010	94	70	130	0.6	20	
Strontium	1.18	mg/L	0.10	105	70	130	0.5	20	
Thallium	0.528	mg/L	0.10	106	70	130	0.1	20	
Uranium	0.574	mg/L	0.00030	112	70	130	1.5	20	
Zinc	3.26	mg/L	0.010		70	130	5.2	20	A
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113003				01/02/09 18:44
Arsenic	0.540	mg/L	0.0010	104	70	130			
Barium	4.49	mg/L	0.10		70	130			A
Beryllium	0.248	mg/L	0.010	99	70	130			
Cadmium	0.269	mg/L	0.010	104	70	130			
Chromium	0.575	mg/L	0.050	101	70	130			
Copper	0.935	mg/L	0.010	94	70	130			
Lead	0.643	mg/L	0.050	105	70	130			
Manganese	3.41	mg/L	0.010	107	70	130			
Molybdenum	0.670	mg/L	0.10	107	70	130			
Nickel	0.534	mg/L	0.050	97	70	130			
Selenium	0.424	mg/L	0.0020	85	70	130			
Silver	0.0477	mg/L	0.010	95	70	130			
Strontium	1.22	mg/L	0.10	111	70	130			
Thallium	0.509	mg/L	0.10	102	70	130			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_20993	
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113003			01/02/09 18:44	
Uranium	0.559	mg/L	0.00032	109	70	130			
Zinc	3.70	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113003			01/02/09 18:51	
Arsenic	0.533	mg/L	0.0010	102	70	130	1.2	20	
Barium	4.78	mg/L	0.10		70	130	6.2	20	A
Beryllium	0.239	mg/L	0.010	96	70	130	3.8	20	
Cadmium	0.265	mg/L	0.010	102	70	130	1.7	20	
Chromium	0.563	mg/L	0.050	99	70	130	2.2	20	
Copper	0.936	mg/L	0.010	95	70	130	0.1	20	
Lead	0.632	mg/L	0.050	102	70	130	1.7	20	
Manganese	3.32	mg/L	0.010	103	70	130	2.8	20	
Molybdenum	0.658	mg/L	0.10	105	70	130	1.8	20	
Nickel	0.527	mg/L	0.050	96	70	130	1.3	20	
Selenium	0.403	mg/L	0.0020	81	70	130	5	20	
Silver	0.0476	mg/L	0.010	95	70	130	0.3	20	
Strontium	1.18	mg/L	0.10	104	70	130	2.8	20	
Thallium	0.509	mg/L	0.10	102	70	130	0	20	
Uranium	0.545	mg/L	0.00032	106	70	130	2.5	20	
Zinc	3.35	mg/L	0.010		70	130	9.7	20	A
Sample ID: MB-20993	Method Blank				Run: SUB-C113003			01/03/09 05:09	
Copper	0.001	mg/L	7E-05						
Lead	0.00010	mg/L	3E-05						
Sample ID: LCS3-20993	Laboratory Control Sample				Run: SUB-C113003			01/03/09 05:15	
Arsenic	0.525	mg/L	0.0010	104	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Beryllium	0.268	mg/L	0.010	107	85	115			
Cadmium	0.272	mg/L	0.010	109	85	115			
Chromium	0.540	mg/L	0.050	108	85	115			
Copper	0.510	mg/L	0.010	102	85	115			
Lead	0.540	mg/L	0.050	108	85	115			
Manganese	2.77	mg/L	0.010	111	85	115			
Molybdenum	0.550	mg/L	0.10	110	85	115			
Nickel	0.512	mg/L	0.050	102	85	115			
Selenium	0.509	mg/L	0.0010	102	85	115			
Silver	0.0512	mg/L	0.010	102	85	115			
Strontium	0.546	mg/L	0.10	109	85	115			
Thallium	0.538	mg/L	0.10	108	85	115			
Uranium	0.560	mg/L	0.00030	112	85	115			
Sample ID: MB-20993	Method Blank				Run: SUB-C113238			01/08/09 17:02	
Arsenic	0.002	mg/L	6E-05						

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20993
Sample ID: MB-20993	Method Blank				Run: SUB-C113238				01/08/09 17:02
Barium	ND	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	ND	mg/L	2E-05						
Chromium	0.0006	mg/L	6E-05						
Copper	0.0001	mg/L	3E-05						
Lead	7E-05	mg/L	5E-05						
Manganese	5E-05	mg/L	2E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	5E-05	mg/L	3E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	2E-05						
Strontium	ND	mg/L	5E-06						
Thallium	0.003	mg/L	4E-05						
Uranium	0.0001	mg/L	5E-05						
Zinc	0.005	mg/L	0.0005						
Sample ID: LCS3-20993	Laboratory Control Sample				Run: SUB-C113238				01/08/09 17:08
Arsenic	0.541	mg/L	0.0010	108	85	115			
Barium	0.539	mg/L	0.10	108	85	115			
Beryllium	0.279	mg/L	0.010	111	85	115			
Cadmium	0.277	mg/L	0.010	111	85	115			
Chromium	0.553	mg/L	0.050	110	85	115			
Copper	0.545	mg/L	0.010	109	85	115			
Lead	0.536	mg/L	0.050	107	85	115			
Manganese	2.60	mg/L	0.010	104	85	115			
Molybdenum	0.539	mg/L	0.10	108	85	115			
Nickel	0.535	mg/L	0.050	107	85	115			
Selenium	0.537	mg/L	0.0010	107	85	115			
Silver	0.0527	mg/L	0.010	105	85	115			
Strontium	0.545	mg/L	0.10	109	85	115			
Thallium	0.528	mg/L	0.10	105	85	115			
Uranium	0.542	mg/L	0.00030	108	85	115			
Zinc	0.531	mg/L	0.010	105	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113238				01/08/09 17:35
Arsenic	0.505	mg/L	0.0010	97	70	130			
Barium	4.38	mg/L	0.10		70	130			A
Beryllium	0.219	mg/L	0.010	87	70	130			
Cadmium	0.247	mg/L	0.010	95	70	130			
Chromium	0.598	mg/L	0.050	107	70	130			
Copper	0.958	mg/L	0.010	99	70	130			
Lead	0.658	mg/L	0.050	107	70	130			
Manganese	3.20	mg/L	0.010	100	70	130			

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_20993	
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113238			01/08/09 17:35	
Molybdenum	0.655	mg/L	0.10	105	70	130			
Nickel	0.536	mg/L	0.050	98	70	130			
Selenium	0.359	mg/L	0.0010	71	70	130			
Silver	0.0464	mg/L	0.010	92	70	130			
Strontium	1.20	mg/L	0.10	109	70	130			
Thallium	0.530	mg/L	0.10	105	70	130			
Uranium	0.579	mg/L	0.00030	113	70	130			
Zinc	3.21	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113238			01/08/09 17:42	
Arsenic	0.500	mg/L	0.0010	97	70	130	0.8	20	
Barium	4.71	mg/L	0.10		70	130	7.3	20	A
Beryllium	0.208	mg/L	0.010	83	70	130	5.1	20	
Cadmium	0.245	mg/L	0.010	94	70	130	0.9	20	
Chromium	0.594	mg/L	0.050	106	70	130	0.6	20	
Copper	0.956	mg/L	0.010	98	70	130	0.2	20	
Lead	0.660	mg/L	0.050	107	70	130	0.3	20	
Manganese	3.16	mg/L	0.010	98	70	130	1.4	20	
Molybdenum	0.647	mg/L	0.10	103	70	130	1.2	20	
Nickel	0.530	mg/L	0.050	97	70	130	1.1	20	
Selenium	0.355	mg/L	0.0010	70	70	130	1.2	20	
Silver	0.0458	mg/L	0.010	91	70	130	1.4	20	
Strontium	1.20	mg/L	0.10	108	70	130	0.3	20	
Thallium	0.538	mg/L	0.10	107	70	130	1.6	20	
Uranium	0.583	mg/L	0.00030	114	70	130	0.6	20	
Zinc	2.90	mg/L	0.010		70	130	9.9	20	A
Method: E200.8								Batch: C_21089	
Sample ID: MB-21089	Method Blank				Run: SUB-C113412			01/14/09 13:12	
Antimony	0.0004	mg/L	0.0002						
Sample ID: LCS3-21089	Laboratory Control Sample				Run: SUB-C113412			01/14/09 13:18	
Antimony	0.614	mg/L	0.050	123	85	115			S
Sample ID: C09010316-001BMS3	Sample Matrix Spike				Run: SUB-C113412			01/14/09 15:22	
Antimony	0.619	mg/L	0.050	123	70	130			
Sample ID: C09010316-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113412			01/14/09 15:28	
Antimony	0.628	mg/L	0.050	125	70	130	1.5	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: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R112759
Sample ID: LRB	Method Blank				Run: SUB-C112759				12/26/08 11:23
Aluminum	ND	mg/L	0.0001						
Arsenic	0.0004	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	3E-05	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	7E-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	0.0004	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112759				12/26/08 11:30
Aluminum	0.0504	mg/L	0.0010	101	85	115			
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0497	mg/L	0.0010	99	85	115			
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Chromium	0.0511	mg/L	0.0010	102	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0503	mg/L	0.0010	101	85	115			
Manganese	0.0511	mg/L	0.0010	102	85	115			
Mercury	0.00524	mg/L	0.0010	105	85	115			
Molybdenum	0.0513	mg/L	0.0010	103	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0511	mg/L	0.0010	102	85	115			
Zinc	0.0528	mg/L	0.0010	104	85	115			
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112759				12/26/08 15:55
Aluminum	0.0461	mg/L	0.0010	92	85	115			
Arsenic	0.0483	mg/L	0.0010	96	85	115			
Barium	0.0486	mg/L	0.0010	97	85	115			
Cadmium	0.0485	mg/L	0.0010	97	85	115			
Chromium	0.0493	mg/L	0.0010	99	85	115			
Copper	0.0497	mg/L	0.0010	99	85	115			
Lead	0.0494	mg/L	0.0010	99	85	115			

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R112759
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112759				12/26/08 15:55
Manganese	0.0497	mg/L	0.0010	99	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0497	mg/L	0.0010	99	85	115			
Silver	0.0189	mg/L	0.0010	94	85	115			
Thorium 232	0.0496	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0490	mg/L	0.0010	98	85	115			
Zinc	0.0504	mg/L	0.0010	100	85	115			
Sample ID: R08120255-010C	Post Digestion Spike				Run: SUB-C112759				12/26/08 19:39
Aluminum	0.0422	mg/L	0.10	84	70	130			
Arsenic	0.0499	mg/L	0.0010	99	70	130			
Barium	0.0584	mg/L	0.10	98	70	130			
Cadmium	0.0497	mg/L	0.010	99	70	130			
Chromium	0.0498	mg/L	0.050	98	70	130			
Copper	0.0462	mg/L	0.010	92	70	130			
Lead	0.0505	mg/L	0.050	101	70	130			
Manganese	0.136	mg/L	0.010	103	70	130			
Mercury	0.00551	mg/L	0.0010	110	70	130			
Molybdenum	0.0557	mg/L	0.10	103	70	130			
Nickel	0.0461	mg/L	0.050	92	70	130			
Silver	0.0169	mg/L	0.010	85	70	130			
Thorium 232	0.0495	mg/L	0.0010	99	70	130			
Uranium	0.0508	mg/L	0.00030	96	70	130			
Vanadium	0.0512	mg/L	0.10	102	70	130			
Zinc	0.0538	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R112871	
Sample ID: LRB	Method Blank				Run: SUB-C112871			12/29/08 19:45	
Antimony	0.0004	mg/L	0.0003						
Arsenic	ND	mg/L	2E-05						
Barium	ND	mg/L	2E-05						
Cadmium	1E-05	mg/L	8E-06						
Chromium	ND	mg/L	2E-05						
Copper	ND	mg/L	1E-05						
Lead	ND	mg/L	1E-05						
Manganese	ND	mg/L	2E-05						
Nickel	ND	mg/L	2E-05						
Selenium	ND	mg/L	4E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	1.0E-05						
Uranium	ND	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112871			12/29/08 19:52	
Antimony	0.0509	mg/L	0.0010	101	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0525	mg/L	0.0010	105	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Chromium	0.0516	mg/L	0.0010	103	85	115			
Copper	0.0524	mg/L	0.0010	105	85	115			
Lead	0.0518	mg/L	0.0010	104	85	115			
Manganese	0.0518	mg/L	0.0010	104	85	115			
Nickel	0.0521	mg/L	0.0010	104	85	115			
Selenium	0.0526	mg/L	0.0010	105	85	115			
Strontium	0.0515	mg/L	0.0010	103	85	115			
Thallium	0.0513	mg/L	0.0010	103	85	115			
Uranium	0.0491	mg/L	0.00030	98	85	115			
Sample ID: C08120843-006BMS	Sample Matrix Spike				Run: SUB-C112871			12/29/08 23:06	
Uranium	66	mg/L	0.00030		70	130			A
Sample ID: C08120843-006BMSD	Sample Matrix Spike Duplicate				Run: SUB-C112871			12/29/08 23:13	
Uranium	67	mg/L	0.00030		70	130	1.9	20	A
Sample ID: R08120255-013D	Post Digestion Spike				Run: SUB-C112871			12/30/08 03:26	
Antimony	0.0539	mg/L	0.050	108	70	130			
Arsenic	0.0740	mg/L	0.0010	102	70	130			
Barium	0.0629	mg/L	0.10	101	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			
Chromium	0.0478	mg/L	0.050	96	70	130			
Copper	0.0487	mg/L	0.010	97	70	130			
Lead	0.0513	mg/L	0.050	102	70	130			
Manganese	0.113	mg/L	0.010	102	70	130			

Qualifiers:

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

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R112871
Sample ID: R08120255-013D	Post Digestion Spike				Run: SUB-C112871				12/30/08 03:26
Nickel	0.0484	mg/L	0.050	96	70	130			
Selenium	0.0541	mg/L	0.0010	108	70	130			
Strontium	1.36	mg/L	0.10		70	130			A
Thallium	0.0483	mg/L	0.10	97	70	130			
Uranium	0.0504	mg/L	0.00030	96	70	130			
Sample ID: R08120255-013D	Post Digestion Spike Duplicate				Run: SUB-C112871				12/30/08 03:33
Antimony	0.0540	mg/L	0.050	108	70	130	0.1	20	
Arsenic	0.0749	mg/L	0.0010	104	70	130	1.3	20	
Barium	0.0629	mg/L	0.10	101	70	130	0	20	
Cadmium	0.0493	mg/L	0.010	99	70	130	0.2	20	
Chromium	0.0480	mg/L	0.050	96	70	130	0	20	
Copper	0.0485	mg/L	0.010	97	70	130	0.3	20	
Lead	0.0514	mg/L	0.050	102	70	130	0.3	20	
Manganese	0.115	mg/L	0.010	106	70	130	1.8	20	
Nickel	0.0489	mg/L	0.050	97	70	130	0	20	
Selenium	0.0527	mg/L	0.0010	105	70	130	2.7	20	
Strontium	1.37	mg/L	0.10		70	130	1	20	A
Thallium	0.0486	mg/L	0.10	97	70	130	0	20	
Uranium	0.0509	mg/L	0.00030	97	70	130	1	20	
Method: E200.8									Batch: C_R112947
Sample ID: LRB	Method Blank				Run: SUB-C112947				01/01/09 16:40
Beryllium	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112947				01/01/09 16:46
Beryllium	0.0508	mg/L	0.0010	102	85	115			
Molybdenum	0.0527	mg/L	0.0010	105	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Sample ID: C08120940-006AMS4	Post Digestion Spike				Run: SUB-C112947				01/02/09 01:54
Beryllium	0.0494	mg/L	0.010	99	70	130			
Molybdenum	0.973	mg/L	0.10		70	130			A
Silver	0.0186	mg/L	0.010	93	70	130			
Sample ID: C08120940-006AMSD4	Post Digestion Spike Duplicate				Run: SUB-C112947				01/02/09 02:01
Beryllium	0.0481	mg/L	0.010	96	70	130	2.7	20	
Molybdenum	0.979	mg/L	0.10		70	130	0.6	20	A
Silver	0.0187	mg/L	0.010	94	70	130	0.7	20	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R113003
Sample ID: LRB	Method Blank				Run: SUB-C113003				01/02/09 15:06
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C113003				01/02/09 15:13
Silver	0.0183	mg/L	0.0010	91	85	115			
Sample ID: R08120255-007D	Post Digestion Spike				Run: SUB-C113003				01/02/09 19:59
Silver	0.0151	mg/L	0.010	75	70	130			
Sample ID: R08120255-007D	Post Digestion Spike Duplicate				Run: SUB-C113003				01/02/09 20:05
Silver	0.0158	mg/L	0.010	79	70	130	4.9	20	
Method: E200.8									Batch: C_R113293
Sample ID: LRB	Method Blank				Run: SUB-C113293				01/12/09 12:01
Zinc	ND	mg/L	0.0002						
Sample ID: R08120255-013D	Post Digestion Spike				Run: SUB-C113293				01/12/09 18:31
Zinc	0.0543	mg/L	0.010	105	70	130			
Sample ID: R08120255-013D	Post Digestion Spike Duplicate				Run: SUB-C113293				01/12/09 18:38
Zinc	0.0534	mg/L	0.010	104	70	130	1.7	20	
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C113293				01/13/09 10:22
Zinc	0.0537	mg/L	0.0010	107	85	115			
Method: E245.1									Batch: B_36516
Sample ID: MB-36516	Method Blank				Run: SUB-B122673				12/26/08 14:51
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36516	Laboratory Fortified Blank				Run: SUB-B122673				12/26/08 14:53
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: R08120271-001A	Sample Matrix Spike				Run: SUB-B122673				12/26/08 14:57
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: R08120271-001A	Sample Matrix Spike Duplicate				Run: SUB-B122673				12/26/08 15:00
Mercury	0.0019	mg/L	0.0010	93	70	130	0	30	
Sample ID: B08121922-007JMS	Sample Matrix Spike				Run: SUB-B122673				12/26/08 15:26
Mercury	0.0020	mg/L	0.0010	99	70	130			
Sample ID: B08121922-007JMSD	Sample Matrix Spike Duplicate				Run: SUB-B122673				12/26/08 15:28
Mercury	0.0020	mg/L	0.0010	100	70	130	1	30	

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B122673	
Sample ID: QCS	Initial Calibration Verification Standard							12/26/08 14:40	
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R38894
Sample ID: LFB0812181213-3	Laboratory Fortified Blank				Run: DIONEX_081218A				12/18/08 19:50
Chloride	4.83	mg/L	0.50	97	90	110			
Fluoride	2.11	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0812181213-4	Laboratory Fortified Blank				Run: DIONEX_081218A				12/18/08 20:07
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	2.11	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: R08120226-003AMS	Sample Matrix Spike				Run: DIONEX_081218A				12/18/08 20:39
Chloride	763	mg/L	1.1		80	120			A
Fluoride	20.4	mg/L	0.11	93	80	120			
Nitrogen, Nitrate as N	52.0	mg/L	0.25	91	80	120			
Nitrogen, Nitrite as N	22.9	mg/L	0.58	92	80	120			
Sulfate	3580	mg/L	1.0		80	120			A
Sample ID: R08120226-003AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A				12/18/08 20:56
Chloride	764	mg/L	1.1		80	120	0.2	10	A
Fluoride	19.6	mg/L	0.11	89	80	120	4.5	10	
Nitrogen, Nitrate as N	51.1	mg/L	0.25	87	80	120	1.9	10	
Nitrogen, Nitrite as N	21.9	mg/L	0.58	88	80	120	4.3	10	
Sulfate	3590	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08120255-004AMS	Sample Matrix Spike				Run: DIONEX_081218A				12/19/08 00:13
Chloride	251	mg/L	5.4	90	80	120			
Fluoride	105	mg/L	0.56	94	80	120			
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	97	80	120			
Sulfate	1910	mg/L	3.4	82	80	120			
Sample ID: R08120255-004AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A				12/19/08 00:29
Chloride	244	mg/L	5.4	87	80	120	2.6	10	
Fluoride	101	mg/L	0.56	91	80	120	3	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.8	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.5	10	
Sulfate	1870	mg/L	3.4	77	80	120	1.9	10	S
Sample ID: R08120255-008AMS	Sample Matrix Spike				Run: DIONEX_081218A				12/19/08 03:30
Chloride	246	mg/L	5.4	89	80	120			
Fluoride	104	mg/L	0.56	92	80	120			

Qualifiers:

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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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R38894
Sample ID: R08120255-008AMS	Sample Matrix Spike				Run: DIONEX_081218A				12/19/08 03:30
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120			
Sulfate	1090	mg/L	3.4	82	80	120			
Sample ID: R08120255-008AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A				12/19/08 03:46
Chloride	241	mg/L	5.4	87	80	120	2.2	10	
Fluoride	102	mg/L	0.56	91	80	120	1.6	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.6	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.6	10	
Sulfate	1080	mg/L	3.4	81	80	120	0.7	10	
Sample ID: R08120255-012AMS	Sample Matrix Spike				Run: DIONEX_081218A				12/19/08 06:47
Chloride	247	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	93	80	120			
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1080	mg/L	3.4	83	80	120			
Sample ID: R08120255-012AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A				12/19/08 07:03
Chloride	242	mg/L	5.4	88	80	120	1.9	10	
Fluoride	102	mg/L	0.56	91	80	120	1.6	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.3	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.2	10	
Sulfate	1070	mg/L	3.4	82	80	120	0.9	10	
Method: E900.0									Batch: C_GrAB-0589
Sample ID: MB-GrAB-0589	Method Blank				Run: SUB-C113399				01/13/09 11:06
Gross Alpha	0.03	pCi/L							U
Gross Beta	0.4	pCi/L							U
Sample ID: UNAT-GrAB-0589	Laboratory Control Sample				Run: SUB-C113399				01/13/09 11:06
Gross Alpha	120	pCi/L		85	70	130			
Sample ID: C08120850-001AMS	Sample Matrix Spike				Run: SUB-C113399				01/13/09 11:06
Gross Beta	90	pCi/L		94	70	130			
Sample ID: C08120850-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113399				01/13/09 11:06
Gross Beta	94	pCi/L		97	70	130	3.7	16.1	
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C113399				01/14/09 01:15
Gross Alpha	5400	pCi/L					4.9	12.7	
Gross Beta	2000	pCi/L					3.6	12.3	

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: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R112957
Sample ID: LCS-R112957	Laboratory Control Sample				Run: SUB-C112957				12/29/08 12:00
Americium 241	25000	pCi/L	20	83	70	130			
Cesium 137	43000	pCi/L	20	95	70	130			
Cobalt 60	30000	pCi/L	20	100	70	130			
Sample ID: MB-R112957	Method Blank				Run: SUB-C112957				12/29/08 12:00
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							U
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
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C112957				12/29/08 12:00
Americium 241	ND	pCi/L	20				0	30	
Barium 133	ND	pCi/L	20				0	30	
Bismuth 212	ND	pCi/L	20				0	30	
Bismuth 214	780	pCi/L	20				5.6	30	
Cesium 134	ND	pCi/L	20				0	30	
Cesium 137	ND	pCi/L	20				0	30	
Cobalt 60	ND	pCi/L	20				0	30	
Iodine 125	ND	pCi/L	20				0	30	
Iodine 131	ND	pCi/L	20				0	30	
Lead 212	ND	pCi/L	20				0	30	
Lead 214	760	pCi/L	20				1.9	30	
Manganese 54	ND	pCi/L	20				0	30	
Potassium 40	ND	pCi/L	20				0	30	
Radium 223	ND	pCi/L					0	30	
Radium 224	ND	pCi/L					0	30	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R112957
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C112957				12/29/08 12:00
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1500	pCi/L					1.9	30	
Method: E903.0									Batch: C_20988
Sample ID: R08120255-005I	Sample Duplicate				Run: SUB-C113735				01/21/09 21:42
Radium 226	4.3	pCi/L			70	130	10	40.6	
Sample ID: R08120255-010I	Sample Matrix Spike				Run: SUB-C113735				01/21/09 23:27
Radium 226	33	pCi/L		95	70	130			
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113735				01/22/09 01:17
Radium 226	14	pCi/L		98	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113735				01/22/09 01:17
Radium 226	-0.3	pCi/L							U
Method: E903.0									Batch: C_RA226-3344
Sample ID: R08120255-001H	Sample Matrix Spike				Run: SUB-C113059				01/05/09 12:37
Radium 226	27	pCi/L		87	70	130			
Sample ID: R08120255-001H	Sample Matrix Spike Duplicate				Run: SUB-C113059				01/05/09 12:37
Radium 226	14	pCi/L		89	70	130	64	20.9	R
- The RPD for the MSD is high because the MS was spiked twice. 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-RA226-3344	Method Blank				Run: SUB-C113059				01/05/09 15:43
Radium 226	-0.09	pCi/L							U
Sample ID: LCS-RA226-3344	Laboratory Control Sample				Run: SUB-C113059				01/05/09 15:43
Radium 226	7.1	pCi/L		90	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

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_20988
Sample ID: C08120794-003AMS	Sample Matrix Spike				Run: SUB-C113220				01/08/09 08:37
Thorium 230	25.2	pCi/Filter	0.20	109	70	130			
Sample ID: C08120794-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113220				01/08/09 08:37
Thorium 230	24.1	pCi/Filter	0.20	103	70	130	4.2	58.2	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113220				01/08/09 08:37
Thorium 230	4.86	pCi/L	0.20	104	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113220				01/08/09 08:37
Thorium 230	-0.1	pCi/L							U
Method: E907.0									Batch: C_RA-TH-ISO-0721
Sample ID: LCS-RA-TH-ISO-0721	Laboratory Control Sample				Run: SUB-C113222				01/08/09 08:39
Thorium 230	5.07	pCi/L	0.20	101	70	130			
Sample ID: R08120255-003H	Sample Matrix Spike				Run: SUB-C113222				01/08/09 08:39
Thorium 230	45.0	pCi/L	0.20	92	70	130			
Sample ID: R08120255-003H	Sample Matrix Spike Duplicate				Run: SUB-C113222				01/08/09 08:39
Thorium 230	48.3	pCi/L	0.20	98	70	130	7.1	43.2	
Sample ID: MB-RA-TH-ISO-0721	Method Blank				Run: SUB-C113222				01/08/09 15:39
Thorium 230	0.1	pCi/L							U
Method: E909.0M									Batch: C_20988
Sample ID: R08120255-009I	Sample Matrix Spike				Run: SUB-C113352				01/06/09 10:06
Lead 210	1200	pCi/L		99	70	130			
Sample ID: R08120255-009I	Sample Matrix Spike Duplicate				Run: SUB-C113352				01/06/09 10:06
Lead 210	1300	pCi/L		113	70	130	13	30	
Sample ID: MB-R113352	Method Blank				Run: SUB-C113352				01/06/09 10:06
Lead 210	-2	pCi/L							U
Sample ID: LCS-R113352	Laboratory Control Sample				Run: SUB-C113352				01/06/09 10:06
Lead 210	56	pCi/L		50	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD recoveries are acceptable the batch is approved.

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

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R113310
Sample ID: R08120255-004H	Sample Matrix Spike				Run: SUB-C113310				12/30/08 08:13
Lead 210	57	pCi/L		47	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MB are acceptable the batch is approved.									
Sample ID: R08120255-010H	Sample Duplicate				Run: SUB-C113310				12/30/08 08:13
Lead 210	4.7	pCi/L					32	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R113310	Method Blank				Run: SUB-C113310				12/30/08 08:13
Lead 210	0.5	pCi/L							U
Sample ID: LCS-R113310	Laboratory Control Sample				Run: SUB-C113310				12/30/08 08:13
Lead 210	62	pCi/L		106	70	130			
Method: RMO-3008									Batch: C_20988
Sample ID: C08120790-003FMS	Sample Matrix Spike				Run: SUB-C113510				01/16/09 12:03
Polonium 210	160	pCi/L	1.0	96	70	130			
Sample ID: C08120790-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C113510				01/16/09 12:03
Polonium 210	150	pCi/L	1.0	90	70	130	6.2	55.7	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113510				01/16/09 12:03
Polonium 210	84	pCi/L	1.0	98	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113510				01/16/09 12:03
Polonium 210	0.2	pCi/L							U
Method: RMO-3008									Batch: C_PO210-0173
Sample ID: C08120771-001KMS	Sample Matrix Spike				Run: SUB-C113513				01/09/09 13:47
Polonium 210	15	pCi/L	1.0	98	70	130			
Sample ID: C08120771-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C113513				01/09/09 13:47
Polonium 210	12	pCi/L	1.0	78	70	130	22	50.6	
Sample ID: LCS-PO210-0173	Laboratory Control Sample				Run: SUB-C113513				01/09/09 13:47
Polonium 210	18	pCi/L	1.0	103	70	130			
Sample ID: MB-PO210-0173	Method Blank				Run: SUB-C113513				01/12/09 09:22
Polonium 210	0.05	pCi/L							U

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.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 2

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Environmental	Dewey Burdock GW Pow ertek	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
RESPEC	Allen Scott		Allen Scott
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI 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

SEE ATTACHED

Normal Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 1.9 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	DewBurd GW BL401	12-17-08	10:00	water	B081202 55-001
2	GW 681	12-17	10:48		002
3	GW 689	12-17	11:02		003
4	GW 3026	12-17	12:46		004
5	GW 698	12-17	1:00		005
6	GW 698	12-17	1:15		006
7	GW 680	12-17	1:50		007
8	GW 622	12-17	2:20		008
9	GW 697	12-17	2:45		009
10	GW 695	12-17	3:10		010

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	12-18-08 10:19				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Froland	12-10-08 1019	

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, and links.

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Chain of Custody and Analytical Request Record

Page 2 of 2

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Sec H Environmental	Powertech Dewey Burdock GW	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	Email:	Sampler: (Please Print)
TESPEC	Allen Scott		Allen Scott
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI 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

ANALYSIS REQUESTED

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

As per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1 GW 694	12-17	3:45	Water
2 GW 696	12-17	4:05	"
3 GW 615	12-17	11:27	"
4 ~~GW~~			
5			
6			
7			
8			
9			
10			

Shipped by:

Cooler ID(s):

Receipt Temp _____ °C

On Ice: Yes No

Custody Seal Y N
Intact Y N
Signature Match Y N

LABORATORY USE ONLY

B08120255-011
012
013

Custody Record MUST be Signed

Relinquished by (print): Allen Scott	Date/Time: 12-18-08 10:19	Signature:	Received by (print):	Date/Time:	Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Troiland	Date/Time: 12-18-08 1019	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.

** REPORT **

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

January 28, 2009

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

Workorder No.: R08120281 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 12/22/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08120281-001	DewBurd GW688	12/22/08 9:45	12/22/08	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120281-001
Client Sample ID: DewBurd GW688

Report Date: 01/28/09
Collection Date: 12/22/08 09:45
Date Received: 12/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Calcium	48.7	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Chloride	12	mg/L		1		1	E300.0	12/24/08 18:15/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Magnesium	21.1	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Nitrogen, Ammonia as N	0.7	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Potassium	12.3	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Sodium	194	mg/L	D	2		2	E200.7	01/05/09 15:50/eli-c
Sulfate	435	mg/L	D	3		50	E300.0	12/24/08 17:58/jmh
Silica	8.9	mg/L		0.2		2	E200.7	01/05/09 15:50/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1110	umhos/cm		5.0		1	A2510 B	01/06/09 10:18/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.87	s.u.		0.01		1	A4500-H B	12/29/08 12:34/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L	H	5		1	A2540 C	12/30/08 15:10/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/08 14:22/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/27/08 07:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 15:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/08 14:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 15:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/27/08 07:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/27/08 07:55/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c

Report Definitions:
RL - Analyte reporting limit.
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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120281-001
Client Sample ID: DewBurd GW688

Report Date: 01/28/09
Collection Date: 12/22/08 09:45
Date Received: 12/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/27/08 07:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/08 14:22/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1.9	pCi/L	U			1	E900.0	01/14/09 22:47/eli-ca
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	01/14/09 22:47/eli-ca
Gross Alpha MDC	3.9	pCi/L				1	E900.0	01/14/09 22:47/eli-ca
Gross Beta	8.8	pCi/L				1	E900.0	01/14/09 22:47/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	01/14/09 22:47/eli-ca
Gross Beta MDC	5.5	pCi/L				1	E900.0	01/14/09 22:47/eli-ca
Lead 210	1.0	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	0.7	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/14/09 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/14/09 16:00/eli-c
Gross Gamma	720	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	12/29/08 12:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	01/21/09 23:27/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120281-001
Client Sample ID: DewBurd GW688

Report Date: 01/28/09
Collection Date: 12/22/08 09:45
Date Received: 12/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	81.1	pCi/L	U	100		1	D5072-92	12/23/08 17:11/eli-c
Radon 222 precision (±)	41.5	pCi/L				1	D5072-92	12/23/08 17:11/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 20:28/eli-c
Arsenic	0.004	mg/L	L	0.003		1	E200.8	12/30/08 20:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 20:28/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/30/08 20:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 18:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 20:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 20:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 20:28/eli-c
Iron	0.50	mg/L		0.03		2	E200.7	01/05/09 18:44/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	12/30/08 20:28/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/30/08 20:28/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:49/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/30/08 20:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 20:28/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	01/01/09 18:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/30/08 20:28/eli-c
Strontium	1.2	mg/L		0.1		1	E200.8	12/30/08 20:28/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 20:28/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/30/08 20:28/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	12/30/08 20:28/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.990	%				1	A1030 E	01/23/09 00:00/jmh
Anions	12.7	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	13.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	848	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	01/23/09 00:00/jmh

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.
L - Lowest available reporting limit for the analytical methoc used.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 081223A-ALK-SEL-W	
Sample ID: LCS1_081223A	Laboratory Control Sample				Run: PH_COND1-R_081223A			12/23/08 09:08	
Alkalinity, Total as CaCO3	936	mg/L	5.0	94	90	110			
Sample ID: MBLK1_081223A	Method Blank				Run: PH_COND1-R_081223A			12/23/08 09:09	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08120255-006AMS	Sample Matrix Spike				Run: PH_COND1-R_081223A			12/23/08 10:40	
Alkalinity, Total as CaCO3	182	mg/L	5.0	64	80	120			S
Sample ID: R08120255-006AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_081223A			12/23/08 10:52	
Alkalinity, Total as CaCO3	198	mg/L	5.0	79	80	120	8.4	10	S
Method: A2510 B								Batch: 090106_1_COND-PROBE-W	
Sample ID: LCS_COND-1_090106	Laboratory Control Sample				Run: PH_COND2-R_090106A			01/06/09 10:12	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_090106	Laboratory Control Sample				Run: PH_COND2-R_090106A			01/06/09 10:13	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_090106	Laboratory Control Sample				Run: PH_COND2-R_090106A			01/06/09 10:15	
Conductivity @ 25 C	4950	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_090106	Method Blank				Run: PH_COND2-R_090106A			01/06/09 10:17	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R09010033-001BDUP	Sample Duplicate				Run: PH_COND2-R_090106A			01/06/09 10:30	
Conductivity @ 25 C	ND	umhos/cm	5.0				0	10	
Method: A2540 C								Batch: 081230A-SLDS-TDS-W	
Sample ID: LCS1_081230A	Laboratory Control Sample				Run: BAL-4-R_081230A			12/30/08 15:08	
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	96	90	110			
Sample ID: MBLK1_081230A	Method Blank				Run: BAL-4-R_081230A			12/30/08 15:09	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	8						
Sample ID: R08120281-001AMS	Sample Matrix Spike				Run: BAL-4-R_081230A			12/30/08 15:10	
Solids, Total Dissolved TDS @ 180 C	990	mg/L	5.0	106	80	120			
Sample ID: R08120281-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_081230A			12/30/08 15:11	
Solids, Total Dissolved TDS @ 180 C	990	mg/L	5.0	108	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 081223-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08120255-001F	Sample Duplicate				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	290	mV					0.8	10	
Sample ID: R08120255-011F	Sample Duplicate				Run: PH_COND1-R_081223B			12/23/08 14:30	
Oxidation-Reduction Potential	270	mV					0.3	10	
Method: A3114 B								Batch: C_SE3114-090109B	
Sample ID: MBLK	Method Blank				Run: SUB-C113244			01/09/09 15:31	
Selenium	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample				Run: SUB-C113244			01/09/09 15:33	
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike				Run: SUB-C113244			01/09/09 16:12	
Selenium	0.057	mg/L	0.0010	113	85	115			
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate				Run: SUB-C113244			01/09/09 16:14	
Selenium	0.058	mg/L	0.0010	116	85	115	2.5	15	S
Sample ID: R08120255-001E	Sample Matrix Spike				Run: SUB-C113244			01/09/09 15:40	
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate				Run: SUB-C113244			01/09/09 15:42	
Selenium	0.057	mg/L	0.0010	113	85	115	2.8	15	
Method: A3114 B								Batch: C_SEIV3114-090108	
Sample ID: MBLK	Method Blank				Run: SUB-C113187			01/08/09 14:58	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample				Run: SUB-C113187			01/08/09 15:00	
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike				Run: SUB-C113187			01/08/09 15:42	
Selenium-IV	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate				Run: SUB-C113187			01/08/09 15:44	
Selenium-IV	0.044	mg/L	0.0010	87	85	115	4.4	10	
Sample ID: R08120255-001E	Sample Matrix Spike				Run: SUB-C113187			01/08/09 15:07	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate				Run: SUB-C113187			01/08/09 15:10	
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.8	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 081229_1_PH-W
Sample ID: LCS_pH-1_081229	Laboratory Control Sample				Run: PH_COND2-R_081229A				12/29/08 12:32
pH	6.84	s.u.	0.010	100	98.55	101.45			
Sample ID: R08120281-001ADUP	Sample Duplicate				Run: PH_COND2-R_081229A				12/29/08 12:35
pH	7.89	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G									Batch: A2008-12-26_2_NH3_01
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_081226A				12/26/08 14:12
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_081226A				12/26/08 14:13
Nitrogen, Ammonia as N	0.25	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_081226A				12/26/08 14:14
Nitrogen, Ammonia as N	0.27	mg/L	0.10	110	90	110			
Sample ID: R08120255-002BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A				12/26/08 14:53
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120			
Sample ID: R08120255-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A				12/26/08 14:54
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120	0.3	10	
Sample ID: R08120255-010BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A				12/26/08 15:07
Nitrogen, Ammonia as N	0.42	mg/L	0.10	100	80	120			
Sample ID: R08120255-010BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A				12/26/08 15:08
Nitrogen, Ammonia as N	0.45	mg/L	0.10	109	80	120	5.3	10	
Method: D5072-92									Batch: C_R112705
Sample ID: R08120281-001G	Sample Duplicate				Run: SUB-C112705				12/23/08 17:11
Radon 222	110	pCi/L	100				30	30	R
- Activity of original sample is below detection limit; duplicate is above detection limit, but within the limits of precision, resulting in high RPD. Batch is acceptable.									
Sample ID: MB-R112705	Method Blank				Run: SUB-C112705				12/23/08 17:11
Radon 222	20	pCi/L							U
Sample ID: LCS-R112705	Laboratory Control Sample				Run: SUB-C112705				12/23/08 17:11
Radon 222	301	pCi/L	100	93	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

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_20978
Sample ID: MB-20978	Method Blank				Run: SUB-C113039				01/05/09 19:00
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C113039				01/05/09 19:04
Boron	0.516	mg/L	0.10	103	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike				Run: SUB-C113039				01/05/09 19:29
Boron	0.658	mg/L	0.10	104	70	130			
Iron	3.53	mg/L	0.030	110	70	130			
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113039				01/05/09 19:33
Boron	0.647	mg/L	0.10	102	70	130	1.7	20	
Iron	3.34	mg/L	0.030	102	70	130	5.4	20	

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R113039
Sample ID: MB-090105A	Method Blank				Run: SUB-C113039				01/05/09 12:11
Silicon	ND	mg/L	0.02						
Boron	0.02	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						
Silica	ND	mg/L	0.04						
Sample ID: LFB-0090105A	Laboratory Fortified Blank				Run: SUB-C113039				01/05/09 12:15
Silicon	0.38	mg/L	0.021	96	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	50	mg/L	0.50	99	85	125			
Iron	1.0	mg/L	0.030	101	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Silica	0.82	mg/L	0.044	96	85	125			
Sample ID: C08120739-002BMS2	Sample Matrix Spike				Run: SUB-C113039				01/05/09 15:25
Boron	2.25	mg/L	0.10	104	70	130			
Iron	2.03	mg/L	0.030	101	70	130			
Silicon	8.94	mg/L	0.10		70	130			A
Calcium	118	mg/L	1.0	102	70	130			
Magnesium	113	mg/L	1.0	102	70	130			
Potassium	95.9	mg/L	1.0	93	70	130			
Sodium	230	mg/L	1.5	104	70	130			
Silica	19.1	mg/L	0.21		70	130			A
Sample ID: C08120739-002BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C113039				01/05/09 15:29
Boron	2.29	mg/L	0.10	106	70	130	1.6	20	
Iron	2.05	mg/L	0.030	102	70	130	0.6	20	
Silicon	8.93	mg/L	0.10		70	130	0	20	A
Calcium	118	mg/L	1.0	102	70	130	0	20	
Magnesium	114	mg/L	1.0	103	70	130	0.2	20	
Potassium	97.9	mg/L	1.0	95	70	130	2.1	20	
Sodium	232	mg/L	1.5	106	70	130	1	20	
Silica	19.1	mg/L	0.21		70	130	0	20	A
Sample ID: R08120255-012D	Sample Matrix Spike				Run: SUB-C113039				01/05/09 18:28
Boron	2.19	mg/L	0.10	105	70	130			
Iron	2.20	mg/L	0.030	102	70	130			
Silicon	5.43	mg/L	0.10		70	130			A
Calcium	136	mg/L	1.0	105	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.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R113039	
Sample ID: R08120255-012D	Sample Matrix Spike				Run: SUB-C113039			01/05/09 18:28	
Magnesium	116	mg/L	1.0	106	70	130			
Potassium	102	mg/L	1.0	93	70	130			
Sodium	394	mg/L	1.1	102	70	130			
Silica	11.6	mg/L	0.21		70	130			A
Sample ID: R08120255-012D	Sample Matrix Spike Duplicate				Run: SUB-C113039			01/05/09 18:32	
Boron	2.26	mg/L	0.10	109	70	130	3.2	20	
Iron	2.28	mg/L	0.030	106	70	130	3.5	20	
Silicon	5.59	mg/L	0.10		70	130	2.9	20	A
Calcium	137	mg/L	1.0	106	70	130	1	20	
Magnesium	118	mg/L	1.0	107	70	130	1.4	20	
Potassium	103	mg/L	1.0	94	70	130	1	20	
Sodium	412	mg/L	1.1	120	70	130	4.5	20	
Silica	12.0	mg/L	0.21		70	130	2.9	20	A

Qualifiers:

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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.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: MB-20978	Method Blank				Run: SUB-C112889				12/30/08 19:20
Antimony	0.0002	mg/L	7E-05						
Arsenic	0.003	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Beryllium	3E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	0.004	mg/L	4E-05						
Copper	0.0007	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	8E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	3E-05						
Strontium	ND	mg/L	3E-05						
Thallium	0.0004	mg/L	1E-05						
Uranium	3E-05	mg/L	1E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: MB-20978	Method Blank				Run: SUB-C112947				01/01/09 17:07
Antimony	0.0009	mg/L	0.0002						
Arsenic	0.003	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.002	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	6E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0004	mg/L	6E-05						
Selenium	0.0007	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0008	mg/L	0.0003						
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C112947				01/01/09 17:13
Antimony	0.559	mg/L	0.050	112	85	115			
Arsenic	0.515	mg/L	0.0010	102	85	115			
Barium	0.519	mg/L	0.10	104	85	115			
Beryllium	0.256	mg/L	0.010	102	85	115			
Cadmium	0.254	mg/L	0.010	102	85	115			

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C112947				01/01/09 17:13
Chromium	0.528	mg/L	0.050	105	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.536	mg/L	0.10	107	85	115			
Nickel	0.479	mg/L	0.050	96	85	115			
Selenium	0.517	mg/L	0.0010	103	85	115			
Silver	0.0485	mg/L	0.010	97	85	115			
Strontium	0.538	mg/L	0.10	108	85	115			
Thallium	0.535	mg/L	0.10	107	85	115			
Uranium	0.538	mg/L	0.00030	108	85	115			
Zinc	0.489	mg/L	0.010	98	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike				Run: SUB-C112947				01/01/09 18:14
Antimony	0.604	mg/L	0.050	114	70	130			
Arsenic	0.514	mg/L	0.0010	102	70	130			
Barium	0.647	mg/L	0.10	106	70	130			
Beryllium	0.242	mg/L	0.010	97	70	130			
Cadmium	0.252	mg/L	0.010	99	70	130			
Chromium	0.528	mg/L	0.050	101	70	130			
Copper	1.69	mg/L	0.010	103	70	130			
Lead	0.509	mg/L	0.050	84	70	130			
Manganese	2.60	mg/L	0.010	102	70	130			
Molybdenum	0.553	mg/L	0.10	109	70	130			
Nickel	0.494	mg/L	0.050	95	70	130			
Selenium	0.504	mg/L	0.0010	98	70	130			
Silver	0.0619	mg/L	0.010	108	70	130			
Strontium	0.911	mg/L	0.10	105	70	130			
Thallium	0.417	mg/L	0.10	83	70	130			
Uranium	0.459	mg/L	0.00030	90	70	130			
Zinc	2.84	mg/L	0.010		70	130			A
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112947				01/01/09 18:21
Antimony	0.599	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	0.5	20	
Barium	0.644	mg/L	0.10	105	70	130	0.5	20	
Beryllium	0.245	mg/L	0.010	98	70	130	1.1	20	
Cadmium	0.251	mg/L	0.010	99	70	130	0.5	20	
Chromium	0.524	mg/L	0.050	100	70	130	0.8	20	
Copper	1.67	mg/L	0.010	98	70	130	1.4	20	
Lead	0.505	mg/L	0.050	84	70	130	0.7	20	
Manganese	2.56	mg/L	0.010	101	70	130	1.2	20	
Molybdenum	0.548	mg/L	0.10	108	70	130	0.9	20	

Qualifiers:

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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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20978
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112947				01/01/09 18:21
Nickel	0.490	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.498	mg/L	0.0010	97	70	130	1.1	20	
Silver	0.0564	mg/L	0.010	97	70	130	9.2	20	
Strontium	0.892	mg/L	0.10	101	70	130	2.1	20	
Thallium	0.413	mg/L	0.10	83	70	130	1.1	20	
Uranium	0.455	mg/L	0.00030	89	70	130	0.8	20	
Zinc	2.84	mg/L	0.010		70	130	0.2	20	A
Method: E200.8									Batch: C_20988
Sample ID: MB-20988	Method Blank				Run: SUB-C112968				01/01/09 21:17
Uranium	ND	mg/L	0.004						
Sample ID: LCS1-20988	Laboratory Control Sample				Run: SUB-C112968				01/01/09 21:21
Uranium	0.0977	mg/L	0.0037	98	80	120			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R112751	
Sample ID: C08120718-005CMS4	Post Digestion Spike				Run: SUB-C112751			12/27/08 08:09	
Arsenic	0.488	mg/L	0.0010	97	70	130			
Barium	0.518	mg/L	0.10	100	70	130			
Cadmium	0.486	mg/L	0.010	97	70	130			
Copper	0.499	mg/L	0.010	92	70	130			
Lead	0.506	mg/L	0.050	101	70	130			
Manganese	1.31	mg/L	0.010	100	70	130			
Mercury	0.0527	mg/L	0.0010	105	70	130			
Molybdenum	0.446	mg/L	0.10	89	70	130			
Nickel	0.708	mg/L	0.050	91	70	130			
Silver	0.131	mg/L	0.010	65	70	130			S
Thorium 232	0.500	mg/L	0.0010	99	70	130			
Uranium	0.962	mg/L	0.00030	116	70	130			
Zinc	0.552	mg/L	0.010	97	70	130			
Sample ID: C08120718-005CMSD4	Post Digestion Spike Duplicate				Run: SUB-C112751			12/27/08 08:15	
Arsenic	0.495	mg/L	0.0010	99	70	130	1.4	20	
Barium	0.522	mg/L	0.10	101	70	130	0.9	20	
Cadmium	0.491	mg/L	0.010	98	70	130	1	20	
Copper	0.504	mg/L	0.010	93	70	130	1	20	
Lead	0.505	mg/L	0.050	101	70	130	0.2	20	
Manganese	1.32	mg/L	0.010	102	70	130	0.9	20	
Mercury	0.0542	mg/L	0.0010	108	70	130	2.8	20	
Molybdenum	0.455	mg/L	0.10	90	70	130	1.9	20	
Nickel	0.715	mg/L	0.050	93	70	130	1	20	
Silver	0.134	mg/L	0.010	67	70	130	2.5	20	S
Thorium 232	0.511	mg/L	0.0010	101	70	130	2.3	20	
Uranium	0.953	mg/L	0.00030	114	70	130	0.9	20	
Zinc	0.551	mg/L	0.010	97	70	130	0.1	20	

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R112828
Sample ID: LRB	Method Blank				Run: SUB-C112828				12/29/08 13:55
Aluminum	0.002	mg/L	0.0001						
Chromium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112828				12/29/08 14:02
Aluminum	0.0484	mg/L	0.0010	93	85	115			
Chromium	0.0509	mg/L	0.0010	102	85	115			
Vanadium	0.0511	mg/L	0.0010	102	85	115			
Sample ID: R08120281-001C	Post Digestion Spike				Run: SUB-C112828				12/29/08 14:29
Aluminum	0.0556	mg/L	0.10	93	70	130			
Chromium	0.0490	mg/L	0.050	98	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Sample ID: R08120281-001C	Post Digestion Spike Duplicate				Run: SUB-C112828				12/29/08 14:36
Aluminum	0.0553	mg/L	0.10	92	70	130	0	20	
Chromium	0.0488	mg/L	0.050	98	70	130	0	20	
Vanadium	0.0497	mg/L	0.10	98	70	130	0	20	
Method: E245.1									Batch: B_36516
Sample ID: MB-36516	Method Blank				Run: SUB-B122673				12/26/08 14:51
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36516	Laboratory Fortified Blank				Run: SUB-B122673				12/26/08 14:53
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08121922-007JMS	Sample Matrix Spike				Run: SUB-B122673				12/26/08 15:26
Mercury	0.0020	mg/L	0.0010	99	70	130			
Sample ID: B08121922-007JMSD	Sample Matrix Spike Duplicate				Run: SUB-B122673				12/26/08 15:28
Mercury	0.0020	mg/L	0.0010	100	70	130	1	30	
Method: E245.1									Analytical Run: SUB-B122673
Sample ID: QCS	Initial Calibration Verification Standard								12/26/08 14:40
Mercury	0.0019	mg/L	0.0010	97	90	110			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R38961
Sample ID: LFB0812241709-1	Laboratory Fortified Blank				Run: DIONEX_081224A				12/24/08 16:03
Chloride	5.87	mg/L	0.50	117	90	110			S
Fluoride	2.05	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.26	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: LFB0812241709-3	Laboratory Fortified Blank				Run: DIONEX_081224A				12/24/08 16:36
Chloride	5.47	mg/L	0.50	109	90	110			
Fluoride	2.09	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08120270-001AMS	Sample Matrix Spike				Run: DIONEX_081224A				12/24/08 17:26
Chloride	66.5	mg/L	0.54	79	80	120			S
Fluoride	11.3	mg/L	0.10	99	80	120			
Nitrogen, Nitrate as N	19.3	mg/L	0.13	88	80	120			
Nitrogen, Nitrite as N	11.9	mg/L	0.29	95	80	120			
Sulfate	353	mg/L	1.0		80	120			A
Sample ID: R08120270-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081224A				12/24/08 17:42
Chloride	65.4	mg/L	0.54	74	80	120	1.7	10	S
Fluoride	11.3	mg/L	0.10	98	80	120	0.5	10	
Nitrogen, Nitrate as N	19.0	mg/L	0.13	85	80	120	1.6	10	
Nitrogen, Nitrite as N	11.7	mg/L	0.29	94	80	120	1.4	10	
Sulfate	348	mg/L	1.0		80	120	1.6	10	A

Qualifiers:

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S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0591	
Sample ID: MB-GrAB-0591	Method Blank				Run: SUB-C113561			01/14/09 22:47	
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0591	Laboratory Control Sample				Run: SUB-C113561			01/14/09 22:47	
Gross Alpha	130	pCi/L		95	70	130			
Sample ID: Cs137-GrAB-0591	Laboratory Control Sample				Run: SUB-C113561			01/14/09 22:47	
Gross Beta	83	pCi/L		91	70	130			
Sample ID: C09010049-001AMS	Sample Matrix Spike				Run: SUB-C113561			01/14/09 22:47	
Gross Alpha	170	pCi/L		122	70	130			
Sample ID: C09010049-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113561			01/14/09 22:47	
Gross Alpha	170	pCi/L		121	70	130	1	17	
Sample ID: C09010049-001AMS	Sample Matrix Spike				Run: SUB-C113561			01/14/09 22:47	
Gross Beta	95	pCi/L		100	70	130			
Sample ID: C09010049-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113561			01/14/09 22:47	
Gross Beta	97	pCi/L		102	70	130	2	16.1	

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: C_R112957	
Sample ID: LCS-R112957	Laboratory Control Sample				Run: SUB-C112957			12/29/08 12:00	
Americium 241	25000	pCi/L	20	83	70	130			
Cesium 137	43000	pCi/L	20	95	70	130			
Cobalt 60	30000	pCi/L	20	100	70	130			
Sample ID: MB-R112957	Method Blank				Run: SUB-C112957			12/29/08 12:00	
Gross Gamma	ND	pCi/L							U
Sample ID: R08120281-001H	Sample Duplicate				Run: SUB-C112957			12/29/08 12:00	
Gross Gamma	770	pCi/L					6.9	30	
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C112957			12/29/08 12:00	
Americium 241	ND	pCi/L	20				0	30	
Barium 133	ND	pCi/L	20				0	30	
Bismuth 212	ND	pCi/L	20				0	30	
Bismuth 214	780	pCi/L	20				5.6	30	
Cesium 134	ND	pCi/L	20				0	30	
Cesium 137	ND	pCi/L	20				0	30	
Cobalt 60	ND	pCi/L	20				0	30	
Iodine 125	ND	pCi/L	20				0	30	
Iodine 131	ND	pCi/L	20				0	30	
Lead 212	ND	pCi/L	20				0	30	
Lead 214	760	pCi/L	20				1.9	30	
Manganese 54	ND	pCi/L	20				0	30	
Potassium 40	ND	pCi/L	20				0	30	
Radium 223	ND	pCi/L					0	30	
Radium 224	ND	pCi/L					0	30	
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1500	pCi/L					1.9	30	

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QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_20988
Sample ID: R08120255-005I	Sample Duplicate				Run: SUB-C113735				01/21/09 21:42
Radium 226	4.3	pCi/L			70	130	10	40.6	
Sample ID: R08120255-010I	Sample Matrix Spike				Run: SUB-C113735				01/21/09 23:27
Radium 226	33	pCi/L		95	70	130			
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113735				01/22/09 01:17
Radium 226	14	pCi/L		98	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113735				01/22/09 01:17
Radium 226	-0.3	pCi/L							U
Method: E903.0									Batch: C_RA226-3344
Sample ID: R08120255-001H	Sample Matrix Spike				Run: SUB-C113059				01/05/09 12:37
Radium 226	27	pCi/L		87	70	130			
Sample ID: R08120255-001H	Sample Matrix Spike Duplicate				Run: SUB-C113059				01/05/09 12:37
Radium 226	14	pCi/L		89	70	130	64	20.9	R
- The RPD for the MSD is high because the MS was spiked twice. 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-RA226-3344	Method Blank				Run: SUB-C113059				01/05/09 15:43
Radium 226	-0.09	pCi/L							U
Sample ID: LCS-RA226-3344	Laboratory Control Sample				Run: SUB-C113059				01/05/09 15:43
Radium 226	7.1	pCi/L		90	70	130			
Method: E907.0									Batch: C_20988
Sample ID: C08120794-003AMS	Sample Matrix Spike				Run: SUB-C113220				01/08/09 08:37
Thorium 230	25.2	pCi/Filter	0.20	109	70	130			
Sample ID: C08120794-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113220				01/08/09 08:37
Thorium 230	24.1	pCi/Filter	0.20	103	70	130	4.2	58.2	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113220				01/08/09 08:37
Thorium 230	4.86	pCi/L	0.20	104	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113220				01/08/09 08:37
Thorium 230	-0.1	pCi/L							U

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-0725
Sample ID: LCS-RA-TH-ISO-0725	Laboratory Control Sample				Run: SUB-C113665				01/14/09 16:00
Thorium 230	4.80	pCi/L	0.20	96	70	130			
Sample ID: R08120281-001H	Sample Matrix Spike				Run: SUB-C113665				01/14/09 16:00
Thorium 230	23.8	pCi/L	0.20	98	70	130			
Sample ID: R08120281-001H	Sample Matrix Spike Duplicate				Run: SUB-C113665				01/14/09 16:00
Thorium 230	21.0	pCi/L	0.20	92	70	130	12	41.1	
Sample ID: MB-RA-TH-ISO-0725	Method Blank				Run: SUB-C113665				01/15/09 09:54
Thorium 230	0.07	pCi/L							U
Method: E909.0M									Batch: C_20988
Sample ID: R08120255-009I	Sample Matrix Spike				Run: SUB-C113352				01/06/09 10:06
Lead 210	1200	pCi/L		99	70	130			
Sample ID: R08120255-009I	Sample Matrix Spike Duplicate				Run: SUB-C113352				01/06/09 10:06
Lead 210	1300	pCi/L		113	70	130	13	30	
Sample ID: MB-R113352	Method Blank				Run: SUB-C113352				01/06/09 10:06
Lead 210	-2	pCi/L							U
Sample ID: LCS-R113352	Laboratory Control Sample				Run: SUB-C113352				01/06/09 10:06
Lead 210	56	pCi/L		50	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD recoveries are acceptable the batch is approved.									
Method: E909.0M									Batch: C_R113310
Sample ID: R08120255-004H	Sample Matrix Spike				Run: SUB-C113310				12/30/08 08:13
Lead 210	57	pCi/L		47	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MB are acceptable the batch is approved.									
Sample ID: R08120255-010H	Sample Duplicate				Run: SUB-C113310				12/30/08 08:13
Lead 210	4.7	pCi/L					32	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R113310	Method Blank				Run: SUB-C113310				12/30/08 08:13
Lead 210	0.5	pCi/L							U
Sample ID: LCS-R113310	Laboratory Control Sample				Run: SUB-C113310				12/30/08 08:13
Lead 210	62	pCi/L		106	70	130			

Qualifiers:

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U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_20988
Sample ID: C08120790-003FMS	Sample Matrix Spike				Run: SUB-C113510				01/16/09 12:03
Polonium 210	160	pCi/L	1.0	96	70	130			
Sample ID: C08120790-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C113510				01/16/09 12:03
Polonium 210	150	pCi/L	1.0	90	70	130	6.2	55.7	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113510				01/16/09 12:03
Polonium 210	84	pCi/L	1.0	98	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113510				01/16/09 12:03
Polonium 210	0.2	pCi/L							U
Method: RMO-3008									Batch: C_PO210-0173
Sample ID: C08120771-001KMS	Sample Matrix Spike				Run: SUB-C113513				01/09/09 13:47
Polonium 210	15	pCi/L	1.0	98	70	130			
Sample ID: C08120771-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C113513				01/09/09 13:47
Polonium 210	12	pCi/L	1.0	78	70	130	22	50.6	
Sample ID: LCS-PO210-0173	Laboratory Control Sample				Run: SUB-C113513				01/09/09 13:47
Polonium 210	18	pCi/L	1.0	103	70	130			
Sample ID: MB-PO210-0173	Method Blank				Run: SUB-C113513				01/12/09 09:22
Polonium 210	0.05	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

** REPORT **

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: Powertech - Burdock / Dewey	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: RESPEC	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address: RESPEC	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI 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 Air W Water S Soils/Solids V Vegetation B Bioassay O Other

ANALYSIS REQUESTED: As per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 6.8 °C

On Ice: (Yes) No

Custody Seal Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	GW688	12-22	9:45	Water
2				
3				
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY: B08120281-001

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
1	Allen Scott	12-22-08 11:06				
2						
3				Received by Laboratory: Steve Troiland	12-22-08 1106	

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, and links.

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Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

March 17, 2009

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

Workorder No.: R09010301 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 1/21/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09010301-001	DewBurd BLK01	01/20/09 7:00	01/21/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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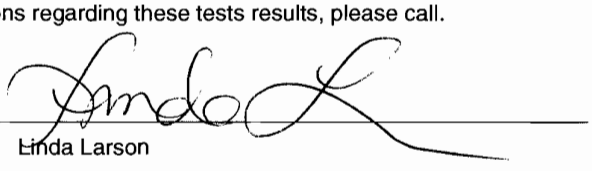
ANALYTICAL SUMMARY REPORT

R09010301-002	DewBurd GW622	01/20/09 10:51 01/21/09	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R09010301-003	DewBurd GW622	01/20/09 10:55 01/21/09	Aqueous	Same As Above
R09010301-004	DewBurd GW615	01/20/09 11:10 01/21/09	Aqueous	Same As Above
R09010301-005	DewBurd GW695	01/20/09 12:15 01/21/09	Aqueous	Same As Above
R09010301-006	DewBurd GW697	01/20/09 12:35 01/21/09	Aqueous	Same As Above
R09010301-007	DewBurd GW681	01/20/09 12:50 01/21/09	Aqueous	Same As Above
R09010301-008	DewBurd GW689	01/20/09 13:05 01/21/09	Aqueous	Same As Above
R09010301-009	DewBurd GW698	01/20/09 14:07 01/21/09	Aqueous	Same As Above
R09010301-010	DewBurd GW3026	01/20/09 14:25 01/21/09	Aqueous	Same As Above
R09010301-011	DewBurd GW680	01/20/09 15:25 01/21/09	Aqueous	Same As Above
R09010301-012	DewBurd GW688	01/20/09 15:35 01/21/09	Aqueous	Same As Above
R09010301-013	DewBurd GW696	01/20/09 16:55 01/21/09	Aqueous	Same As Above
R09010301-014	DewBurd GW694	01/20/09 17:00 01/21/09	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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-001
Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
Collection Date: 01/20/09 07:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	01/26/09 13:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 13:53/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	01/26/09 13:53/mb
Calcium	ND	mg/L		0.5		1	E200.7	01/30/09 19:47/eli-c
Chloride	ND	mg/L		1		1	E300.0	01/21/09 22:11/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	01/21/09 22:11/jmh
Magnesium	ND	mg/L		0.5		1	E200.7	01/30/09 19:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/21/09 22:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/21/09 22:11/jmh
Potassium	ND	mg/L		0.5		1	E200.7	01/30/09 19:47/eli-c
Sodium	ND	mg/L		0.5		1	E200.7	01/30/09 19:47/eli-c
Sulfate	ND	mg/L		1		1	E300.0	01/21/09 22:11/jmh
Silica	ND	mg/L		0.2		1	E200.7	01/30/09 19:47/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	01/22/09 14:46/tb
Oxidation-Reduction Potential	310	mV				1	A2580 B	01/27/09 11:00/jmh
pH	6.01	s.u.		0.01		1	A4500-H B	01/22/09 10:01/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	01/26/09 09:14/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	02/20/09 13:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 17:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 17:36/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 19:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 17:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 17:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 17:36/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/30/09 19:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 17:36/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	01/30/09 17:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/30/09 17:36/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 17:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 17:36/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 17:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 17:36/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 17:36/eli-c

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: R09010301-001
Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
Collection Date: 01/20/09 07:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 17:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 17:36/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 22:55/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.6	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Alpha MDC	0.8	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Beta	-1	pCi/L	U			1	E900.0	02/06/09 03:24/eli-ca
Gross Beta precision (±)	1.4	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Beta MDC	2.5	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Lead 210	0.6	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.050	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.67	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:35/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	02/05/09 16:35/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	6.7	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.045	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.56	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:43/eli-ca

Report Definitions:
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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: R09010301-001
Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
Collection Date: 01/20/09 07:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	141	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	60.9	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 20:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 20:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:19/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 20:19/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/05/09 18:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:19/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/05/09 18:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:19/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	01/30/09 20:19/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:22/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:19/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/06/09 15:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:19/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	01/30/09 20:19/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:19/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 20:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:19/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.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-002
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:51
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	01/26/09 13:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 13:55/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	01/26/09 13:55/mb
Calcium	84.7	mg/L		0.5		1	E200.7	01/30/09 19:52/eli-c
Chloride	10	mg/L		1		1	E300.0	01/21/09 23:50/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/21/09 23:50/jmh
Magnesium	29.7	mg/L		0.5		1	E200.7	01/30/09 19:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:08/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/21/09 23:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/21/09 23:50/jmh
Potassium	12.2	mg/L		0.5		1	E200.7	01/30/09 19:52/eli-c
Sodium	173	mg/L		0.5		1	E200.7	01/30/09 19:52/eli-c
Sulfate	499	mg/L	D	3		50	E300.0	01/21/09 23:00/jmh
Silica	7.4	mg/L		0.2		1	E200.7	01/30/09 19:52/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	01/22/09 14:48/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.46	s.u.		0.01		1	A4500-H B	01/22/09 10:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	01/26/09 09:15/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/18/09 14:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 17:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 17:43/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 19:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 17:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 17:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 17:43/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/30/09 19:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 17:43/eli-c
Manganese	0.17	mg/L		0.01		1	E200.8	01/30/09 17:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/30/09 17:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 17:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 17:43/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 17:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 17:43/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	01/30/09 17:43/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-002
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:51
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 17:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 17:43/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	02/18/09 22:59/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:12/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	36.4	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Gross Alpha MDC	3.5	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Gross Beta	16.0	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/06/09 03:23/eli-cə
Lead 210	0.3	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.063	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.69	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	2.9	pCi/L				1	E903.0	02/05/09 12:53/eli-cə
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/05/09 12:53/eli-cə
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/05/09 16:36/eli-c
Gross Gamma	160	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	73	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	8.1	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.77	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.53	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	02/18/09 13:43/eli-cə
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/18/09 13:43/eli-cə

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-002
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:51
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1180	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	72.3	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 16:35/eli-c
Arsenic	0.003	mg/L	D	0.002		1	E200.8	02/04/09 16:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 16:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 16:35/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/07/09 03:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 16:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 16:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 16:35/eli-c
Iron	4.06	mg/L		0.03		1	E200.7	02/07/09 03:17/eli-c
Lead	0.008	mg/L		0.001		1	E200.8	02/04/09 16:35/eli-c
Manganese	0.19	mg/L		0.01		1	E200.8	02/04/09 16:35/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 16:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/04/09 16:35/eli-c
Selenium	ND	mg/L	D	0.002		1	E200.8	02/04/09 16:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 16:35/eli-c
Strontium	1.6	mg/L		0.1		1	E200.8	02/04/09 16:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 16:35/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	02/04/09 16:35/eli-c
Zinc	0.08	mg/L		0.01		1	E200.8	02/04/09 16:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.07	%				1	A1030 E	03/16/09 00:00/lkl
Anions	14.2	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	14.5	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	934	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
RL - Analyte reporting limit.
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-003
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	01/26/09 13:57/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 13:57/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	01/26/09 13:57/mb
Calcium	83.4	mg/L		0.5		1	E200.7	01/30/09 20:10/eli-c
Chloride	10	mg/L		1		1	E300.0	01/22/09 00:22/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 00:22/jmh
Magnesium	29.5	mg/L		0.5		1	E200.7	01/30/09 20:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 00:22/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 00:22/jmh
Potassium	12.2	mg/L		0.5		1	E200.7	01/30/09 20:10/eli-c
Sodium	174	mg/L		0.5		1	E200.7	01/30/09 20:10/eli-c
Sulfate	492	mg/L	D	3		50	E300.0	01/22/09 00:06/jmh
Silica	7.4	mg/L		0.2		1	E200.7	01/30/09 20:10/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	01/22/09 14:49/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	01/22/09 10:04/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	01/26/09 09:17/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:11/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 18:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:16/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 20:10/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:16/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:16/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/30/09 20:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:16/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	01/30/09 18:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:11/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:16/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:16/eli-c
Uranium	0.0059	mg/L		0.0003		1	E200.8	01/30/09 18:16/eli-c

Report Definitions:
RL - Analyte reporting limit.
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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: R09010301-003
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:16/eli-c
METALS - SUSPENDED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	02/18/09 23:19/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	37.6	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Gross Alpha precision (±)	4.4	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Gross Alpha MDC	3.5	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Gross Beta	16.1	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/06/09 03:24/eli-cε
Lead 210	0.8	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.024	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.77	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	3.3	pCi/L				1	E903.0	02/05/09 12:53/eli-cε
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/05/09 12:53/eli-cε
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/05/09 16:36/eli-c
Gross Gamma	100	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	64	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	5.8	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.82	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.62	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0	02/18/09 13:43/eli-cε
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/18/09 13:43/eli-cε

Report Definitions:
RL - Analyte reporting limit.
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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: R09010301-003
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	74.3	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 16:42/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	02/04/09 16:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 16:42/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 16:42/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/07/09 03:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 16:42/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 16:42/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 16:42/eli-c
Iron	4.68	mg/L		0.03		1	E200.7	02/07/09 03:22/eli-c
Lead	0.010	mg/L		0.001		1	E200.8	02/04/09 16:42/eli-c
Manganese	0.19	mg/L		0.01		1	E200.8	02/04/09 16:42/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:27/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 16:42/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/04/09 16:42/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 16:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 16:42/eli-c
Strontium	1.6	mg/L		0.1		1	E200.8	02/04/09 16:42/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 16:42/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	02/04/09 16:42/eli-c
Zinc	0.09	mg/L		0.01		1	E200.8	02/04/09 16:42/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.26	%				1	A1030 E	03/16/09 00:00/lkl
Anions	14.1	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	14.5	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	928	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	03/16/09 00:00/lkl

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-004
Client Sample ID: DewBurd GW615

Report Date: 03/17/09
Collection Date: 01/20/09 11:10
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	01/26/09 14:00/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:00/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	01/26/09 14:00/mb
Calcium	70.3	mg/L		0.5		1	E200.7	01/30/09 20:15/eli-c
Chloride	5	mg/L		1		1	E300.0	01/22/09 00:55/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 00:55/jmh
Magnesium	21.0	mg/L		0.5		1	E200.7	01/30/09 20:15/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 00:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 00:55/jmh
Potassium	9.8	mg/L		0.5		1	E200.7	01/30/09 20:15/eli-c
Sodium	131	mg/L		0.5		1	E200.7	01/30/09 20:15/eli-c
Sulfate	389	mg/L	D	3		50	E300.0	01/22/09 00:39/jmh
Silica	7.8	mg/L		0.2		1	E200.7	01/30/09 20:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B	01/22/09 14:51/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.19	s.u.		0.01		1	A4500-H B	01/22/09 10:06/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	720	mg/L		5		1	A2540 C	01/26/09 09:18/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:18/eli-c
Arsenic	0.014	mg/L		0.001		1	E200.8	01/30/09 18:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:23/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 20:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:23/eli-c
Iron	0.13	mg/L		0.03		1	E200.7	01/30/09 20:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:23/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/30/09 18:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:18/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:23/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	01/30/09 18:23/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: R09010301-004
Client Sample ID: DewBurd GW615

Report Date: 03/17/09
Collection Date: 01/20/09 11:10
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 23:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.1	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Alpha MDC	2.7	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta	10.4	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta MDC	3.3	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Lead 210	1.2	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.027	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.54	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1.8	pCi/L				1	E903.0	02/05/09 12:53/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/05/09 12:53/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/05/09 16:36/eli-c
Gross Gamma	32	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	18	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	5.8	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.14	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.57	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/18/09 13:43/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/18/09 13:43/eli-cα

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-004
Client Sample ID: DewBurd GW615

Report Date: 03/17/09
Collection Date: 01/20/09 11:10
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1630	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	77.2	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 20:25/eli-c
Arsenic	0.024	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Boron	ND	mg/L	D	0.4		10	E200.7	02/05/09 19:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
Iron	1.3	mg/L	D	0.2		10	E200.7	02/05/09 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:29/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:25/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 17:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:25/eli-c
Strontium	1.5	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	01/30/09 20:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.660	%				1	A1030 E	03/16/09 00:00/lkl
Anions	11.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	11.2	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	730	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
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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: R09010301-005
Client Sample ID: DewBurd GW695

Report Date: 03/17/09
Collection Date: 01/20/09 12:15
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	01/26/09 14:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:19/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	01/26/09 14:19/mb
Calcium	49.8	mg/L		0.5		2	E200.7	01/30/09 20:19/eli-c
Chloride	12	mg/L		1		1	E300.0	01/22/09 01:28/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 01:28/jmh
Magnesium	18.3	mg/L		0.5		2	E200.7	01/30/09 20:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 01:28/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 01:28/jmh
Potassium	9.5	mg/L		0.5		2	E200.7	01/30/09 20:19/eli-c
Sodium	247	mg/L		0.5		2	E200.7	01/30/09 20:19/eli-c
Sulfate	500	mg/L	D	3		50	E300.0	01/22/09 01:12/jmh
Silica	7.9	mg/L		0.2		2	E200.7	01/30/09 20:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1350	umhos/cm		5.0		1	A2510 B	01/22/09 14:52/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.81	s.u.		0.01		1	A4500-H B	01/22/09 10:07/tb
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	01/26/09 09:18/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 18:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:30/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:30/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:30/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:30/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 20:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:30/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	01/30/09 18:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:30/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:30/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8	01/30/09 18:30/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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-005
Client Sample ID: DewBurd GW695

Report Date: 03/17/09
Collection Date: 01/20/09 12:15
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 23:27/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	35.8	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Alpha MDC	3.6	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta	12.1	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/06/09 03:24/eli-cα
Lead 210	1.5	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.051	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.74	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	4.5	pCi/L				1	E903.0	02/05/09 12:53/eli-cα
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	02/05/09 12:53/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	6.6	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.13	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.51	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	02/18/09 13:43/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:43/eli-cα

Report Definitions:
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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: R09010301-005
Client Sample ID: DewBurd GW695

Report Date: 03/17/09
Collection Date: 01/20/09 12:15
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1840	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	78.9	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 20:32/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 20:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 20:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:32/eli-c
Iron	0.13	mg/L	D	0.04		2	E200.7	02/05/09 19:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:32/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	01/30/09 20:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:31/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:32/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 17:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:32/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	01/30/09 20:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:32/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8	01/30/09 20:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.54	%				1	A1030 E	03/16/09 00:00/lkl
Anions	14.3	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	15.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	962	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-006
Client Sample ID: DewBurd GW697

Report Date: 03/17/09
Collection Date: 01/20/09 12:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	01/26/09 14:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:21/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	01/26/09 14:21/mb
Calcium	49.7	mg/L		0.5		2	E200.7	01/30/09 20:24/eli-c
Chloride	8	mg/L		1		1	E300.0	01/22/09 03:07/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	01/22/09 03:07/jmh
Magnesium	16.4	mg/L		0.5		2	E200.7	01/30/09 20:24/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 03:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 03:07/jmh
Potassium	8.6	mg/L		0.5		2	E200.7	01/30/09 20:24/eli-c
Sodium	206	mg/L		0.5		2	E200.7	01/30/09 20:24/eli-c
Sulfate	444	mg/L	D	3		50	E300.0	01/22/09 02:17/jmh
Silica	7.9	mg/L		0.2		2	E200.7	01/30/09 20:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1220	umhos/cm		5.0		1	A2510 B	01/22/09 14:54/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.73	s.u.		0.01		1	A4500-H B	01/22/09 10:08/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	01/26/09 09:19/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:32/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 18:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:37/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:37/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 20:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:37/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/30/09 18:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:37/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:37/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 18:37/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-006
Client Sample ID: DewBurd GW697

Report Date: 03/17/09
Collection Date: 01/20/09 12:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:37/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 23:31/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:22/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.7	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	3.3	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta	12.5	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	4.3	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Lead 210	0.6	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.027	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.54	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	0.9	pCi/L				1	E903.0	02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	2.9	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	-0.0097	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.45	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:43/eli-ca

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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: R09010301-006
Client Sample ID: DewBurd GW697

Report Date: 03/17/09
Collection Date: 01/20/09 12:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	299	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	60.7	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 20:39/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:39/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
Iron	ND	mg/L	D	0.04		2	E200.7	02/05/09 19:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:34/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:39/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 17:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:39/eli-c
Strontium	1.2	mg/L		0.1		1	E200.8	01/30/09 20:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 20:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.640	%				1	A1030 E	03/16/09 00:00/lkl
Anions	12.9	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	13.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	856	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	03/16/09 00:00/lkl

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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	01/26/09 14:23/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:23/mb
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	01/26/09 14:23/mb
Calcium	53.6	mg/L		0.5		2	E200.7	01/30/09 20:28/eli-c
Chloride	13	mg/L		1		1	E300.0	01/22/09 03:39/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 03:39/jmh
Magnesium	20.9	mg/L		0.5		2	E200.7	01/30/09 20:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 03:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 03:39/jmh
Potassium	10	mg/L		0.5		2	E200.7	01/30/09 20:28/eli-c
Sodium	213	mg/L		0.5		2	E200.7	01/30/09 20:28/eli-c
Sulfate	465	mg/L	D	3		50	E300.0	01/22/09 03:23/jmh
Silica	7.8	mg/L		0.2		2	E200.7	01/30/09 20:28/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	01/22/09 14:56/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.85	s.u.		0.01		1	A4500-H B	01/22/09 10:10/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	01/26/09 09:19/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:38/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	01/30/09 18:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 20:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:44/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/30/09 18:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:44/eli-c
Uranium	0.0081	mg/L		0.0003		1	E200.8	01/30/09 18:44/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: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 00:16/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1210	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Gross Alpha precision (±)	21.8	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Gross Alpha MDC	3.4	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Gross Beta	361	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Gross Beta precision (±)	6.5	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/07/09 01:11/eli-cə
Lead 210	11.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.7	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	3.8	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.75	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	258	pCi/L				1	E903.0	02/05/09 12:53/eli-cə
Radium 226 precision (±)	3.6	pCi/L				1	E903.0	02/05/09 12:53/eli-cə
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	190	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	02/04/09 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.2	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	1.7	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.65	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	1.1	pCi/L				1	E903.0	02/18/09 13:41/eli-cə
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/18/09 13:41/eli-cə
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-cə

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/26/09 08:59/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	02/26/09 08:59/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	133000	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	469	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:13/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/04/09 18:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:13/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:13/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:13/eli-c
Iron	0.07	mg/L	D	0.04		2	E200.7	02/05/09 19:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:13/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/30/09 21:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:41/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 18:03/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:13/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 18:03/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:13/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	02/04/09 18:03/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:13/eli-c
Uranium	0.0084	mg/L		0.0003		1	E200.8	01/30/09 21:13/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	01/30/09 21:13/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.57	%				1	A1030 E	03/16/09 00:00/lkl
Anions	13.5	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	13.9	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	899	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	03/16/09 00:00/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.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-008
Client Sample ID: DewBurd GW689

Report Date: 03/17/09
Collection Date: 01/20/09 13:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Calcium	44.8	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Chloride	5	mg/L		1		1	E300.0	01/22/09 04:12/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Magnesium	15.5	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:20/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Potassium	9.0	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Sodium	177	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	01/22/09 03:56/jmh
Silica	8.3	mg/L		0.2		1	E200.7	01/30/09 20:32/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1080	umhos/cm		5.0		1	A2510 B	01/22/09 14:59/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.71	s.u.		0.01		1	A4500-H B	01/22/09 10:13/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	01/26/09 09:20/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:45/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 18:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:50/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 20:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:50/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/30/09 20:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:50/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	01/30/09 18:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Uranium	0.0035	mg/L		0.0003		1	E200.8	01/30/09 18:50/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-008
Client Sample ID: DewBurd GW689

Report Date: 03/17/09
Collection Date: 01/20/09 13:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:50/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 00:20/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	52.8	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	4.4	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	2.8	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta	17.6	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	3.3	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Lead 210	-0.4	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.031	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.62	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	6.1	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.025	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.68	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 13:41/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:41/eli-ca

Report Definitions:
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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: R09010301-008
Client Sample ID: DewBurd GW689

Report Date: 03/17/09
Collection Date: 01/20/09 13:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1850	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	78.7	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 16:48/eli-c
Arsenic	ND	mg/L	D	0.002		1	E200.8	02/04/09 16:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/07/09 03:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 16:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 16:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
Iron	0.62	mg/L		0.03		1	E200.7	02/07/09 03:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:43/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/04/09 16:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 16:48/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	02/04/09 16:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.130	%				1	A1030 E	03/16/09 00:00/lkl
Anions	11.5	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	11.5	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	765	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	03/16/09 00:00/lkl

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-009
Client Sample ID: DewBurd GW698

Report Date: 03/17/09
Collection Date: 01/20/09 14:07
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Calcium	341	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Chloride	10	mg/L		1		1	E300.0	01/22/09 04:45/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Magnesium	127	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Potassium	16.0	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Sodium	92.1	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	01/22/09 04:29/jmh
Silica	10.2	mg/L		0.2		2	E200.7	01/30/09 20:37/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2410	umhos/cm		5.0		1	A2510 B	01/22/09 15:01/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	01/27/09 11:00/jmh
pH	6.74	s.u.		0.01		1	A4500-H B	01/22/09 10:14/tb
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	01/26/09 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:06/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/30/09 18:57/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:37/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 18:57/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
Iron	1.74	mg/L		0.03		2	E200.7	01/30/09 20:37/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 18:57/eli-c
Manganese	2.39	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:06/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 18:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:34/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Uranium	0.100	mg/L		0.0003		5	E200.8	01/30/09 18:57/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-009
Client Sample ID: DewBurd GW698

Report Date: 03/17/09
Collection Date: 01/20/09 14:07
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Zinc	ND	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
METALS - SUSPENDED								
Uranium	0.0021	mg/L		0.0003		1	E200.8	02/19/09 01:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1960	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Gross Alpha precision (±)	40.9	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Gross Alpha MDC	7.4	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Gross Beta	547	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Gross Beta precision (±)	11.6	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Gross Beta MDC	8.7	pCi/L				1	E900.0	02/07/09 01:11/eli-cε
Lead 210	0.1	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.42	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.68	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.51	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	386	pCi/L				1	E903.0	02/05/09 14:35/eli-cε
Radium 226 precision (±)	3.8	pCi/L				1	E903.0	02/05/09 14:35/eli-cε
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1400	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	220	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.9	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	2.0	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.96	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.59	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	7.3	pCi/L				1	E903.0	02/18/09 13:41/eli-cε
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	02/18/09 13:41/eli-cε

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-009
Client Sample ID: DewBurd GW698

Report Date: 03/17/09
Collection Date: 01/20/09 14:07
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ce
Thorium 230	1.9	pCi/L		0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	32100	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	235	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 17:22/eli-c
Arsenic	ND	mg/L	D	0.002		1	E200.8	02/04/09 17:22/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 17:22/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 17:22/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/07/09 03:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 17:22/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 17:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 17:22/eli-c
Iron	4.60	mg/L		0.03		2	E200.7	02/07/09 03:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/04/09 17:22/eli-c
Manganese	2.37	mg/L		0.01		1	E200.8	02/04/09 17:22/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:45/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 17:22/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/04/09 17:22/eli-c
Selenium	ND	mg/L	D	0.002		1	E200.8	02/04/09 17:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 17:22/eli-c
Strontium	4.8	mg/L		0.1		1	E200.8	02/04/09 17:22/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 17:22/eli-c
Uranium	0.108	mg/L		0.0003		1	E200.8	02/04/09 17:22/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/04/09 17:22/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.51	%				1	A1030 E	03/16/09 00:00/lkl
Anions	30.6	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	32.2	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	2030	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.820					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
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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: R09010301-010
Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
Collection Date: 01/20/09 14:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Calcium	350	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Chloride	16	mg/L		1		1	E300.0	01/22/09 06:24/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Magnesium	114	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Potassium	20.6	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Sodium	161	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Sulfate	1310	mg/L	D	3		50	E300.0	01/22/09 05:34/jmh
Silica	8.5	mg/L		0.2		2	E200.7	01/30/09 20:42/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2600	umhos/cm		5.0		1	A2510 B	01/22/09 15:03/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	6.67	s.u.		0.01		1	A4500-H B	01/22/09 10:15/tb
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	01/26/09 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:40/eli-c
Arsenic	0.001	mg/L		0.001		5	E200.8	01/30/09 19:04/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 19:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:42/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 19:04/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 19:04/eli-c
Iron	6.85	mg/L		0.03		2	E200.7	01/30/09 20:42/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 19:04/eli-c
Manganese	1.16	mg/L		0.01		5	E200.8	01/30/09 19:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:40/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 19:04/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 19:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:37/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Uranium	0.0039	mg/L		0.0003		5	E200.8	01/30/09 19:04/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-010
Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
Collection Date: 01/20/09 14:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/30/09 19:04/eli-c
Zinc	0.02	mg/L		0.01		5	E200.8	01/30/09 19:04/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	02/19/09 01:25/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	51.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha precision (±)	7.8	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha MDC	7.3	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta	24.9	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta precision (±)	5.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta MDC	8.7	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Lead 210	-0.9	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.053	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.75	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	3.5	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-0.5	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	-0.058	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.75	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	0.6	pCi/L				1	E903.0	02/18/09 13:41/eli-cα
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/18/09 13:41/eli-cα

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-010
Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
Collection Date: 01/20/09 14:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	295	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	59.9	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:20/eli-c
Arsenic	0.010	mg/L		0.001		1	E200.8	02/04/09 18:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:20/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:20/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	02/05/09 19:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:20/eli-c
Iron	17.0	mg/L	D	0.04		2	E200.7	02/05/09 19:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:20/eli-c
Manganese	1.20	mg/L		0.01		1	E200.8	01/30/09 21:20/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:48/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 18:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:20/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	02/04/09 18:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:20/eli-c
Strontium	6.0	mg/L		0.1		1	E200.8	02/04/09 18:10/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:20/eli-c
Uranium	0.0047	mg/L		0.0003		1	E200.8	01/30/09 21:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 21:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.42	%				1	A1030 E	03/16/09 00:00/lkl
Anions	31.2	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	34.8	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	2100	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	03/16/09 00:00/lkl

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-011
Client Sample ID: DewBurd GW680

Report Date: 03/17/09
Collection Date: 01/20/09 15:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Calcium	358	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Chloride	13	mg/L		1		1	E300.0	01/22/09 06:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Magnesium	117	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Potassium	19.8	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Sodium	145	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Sulfate	1370	mg/L	D	3		50	E300.0	01/22/09 06:40/jmh
Silica	8.7	mg/L		0.2		2	E200.7	01/30/09 21:10/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B	01/22/09 15:05/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.12	s.u.		0.01		1	A4500-H B	01/22/09 10:17/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	01/26/09 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:46/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/30/09 19:52/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 21:10/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 19:52/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 21:10/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 19:52/eli-c
Manganese	0.47	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:46/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 19:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:43/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Uranium	0.0205	mg/L		0.0003		5	E200.8	01/30/09 19:52/eli-c

Report Definitions:
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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: R09010301-011
Client Sample ID: DewBurd GW680

Report Date: 03/17/09
Collection Date: 01/20/09 15:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Zinc	0.01	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6730	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Gross Alpha precision (±)	79.0	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Gross Alpha MDC	8.1	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Gross Beta	1790	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Gross Beta precision (±)	19.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Gross Beta MDC	8.8	pCi/L				1	E900.0	02/07/09 01:12/eli-cə
Lead 210	5.4	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.53	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.51	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1360	pCi/L				1	E903.0	02/05/09 14:35/eli-cə
Radium 226 precision (±)	7.5	pCi/L				1	E903.0	02/05/09 14:35/eli-cə
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1700	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	240	pCi/L				1	E901.1	02/04/09 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.2	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	2.0	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.94	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.53	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	13.3	pCi/L				1	E903.0	02/18/09 13:41/eli-cə
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	02/18/09 13:41/eli-cə
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-cə

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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: R09010301-011
Client Sample ID: DewBurd GW680

Report Date: 03/17/09
Collection Date: 01/20/09 15:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	48000	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	283	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/04/09 18:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:26/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:26/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	02/05/09 19:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:26/eli-c
Iron	0.30	mg/L	D	0.04		2	E200.7	02/05/09 19:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:26/eli-c
Manganese	0.46	mg/L		0.01		1	E200.8	01/30/09 21:26/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:50/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 18:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:26/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 18:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:26/eli-c
Strontium	7.1	mg/L		0.1		1	E200.8	02/04/09 18:16/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:26/eli-c
Uranium	0.0220	mg/L		0.0003		1	E200.8	01/30/09 21:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 21:26/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.670	%				1	A1030 E	03/16/09 00:00/lkl
Anions	33.9	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	34.3	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	2190	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	03/16/09 00:00/lkl

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-012
Client Sample ID: DewBurd GW688

Report Date: 03/17/09
Collection Date: 01/20/09 15:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Calcium	48.8	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Chloride	11	mg/L		1		1	E300.0	01/22/09 07:29/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Magnesium	20.5	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Potassium	14.2	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Sodium	189	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Sulfate	436	mg/L	D	3		50	E300.0	01/22/09 07:13/jmh
Silica	7.6	mg/L		0.2		1	E200.7	01/30/09 21:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1210	umhos/cm		5.0		1	A2510 B	01/22/09 15:07/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	8.00	s.u.		0.01		1	A4500-H B	01/22/09 10:18/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	800	mg/L		5		1	A2540 C	01/26/09 09:23/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:53/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	01/30/09 19:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 19:58/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 21:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/03/09 18:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 19:58/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	01/30/09 21:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 19:58/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	02/02/09 23:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 19:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/03/09 18:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 19:58/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-012
Client Sample ID: DewBurd GW688

Report Date: 03/17/09
Collection Date: 01/20/09 15:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	02/02/09 23:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 19:58/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:33/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	25.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha MDC	3.2	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta	15.8	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta MDC	4.3	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Lead 210	1.0	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.0089	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.71	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	3.8	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	3.2	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	-0.0045	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.43	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	02/18/09 13:41/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/18/09 13:41/eli-cα

Report Definitions:
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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: R09010301-012
Client Sample ID: DewBurd GW688

Report Date: 03/17/09
Collection Date: 01/20/09 15:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	152	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	57.4	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:33/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/04/09 18:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:33/eli-c
Iron	0.17	mg/L	D	0.04		2	E200.7	02/05/09 19:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:33/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	01/30/09 21:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:53/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 18:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 18:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:33/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	02/04/09 18:50/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 21:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 21:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.140	%				1	A1030 E	03/16/09 00:00/lkl
Anions	12.8	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	12.7	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	840	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-013
Client Sample ID: DewBurd GW696

Report Date: 03/17/09
Collection Date: 01/20/09 16:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Calcium	27.0	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Chloride	12	mg/L		1		1	E300.0	01/22/09 08:02/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Magnesium	9.6	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Potassium	8.8	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Sodium	253	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Sulfate	483	mg/L	D	3		50	E300.0	01/22/09 07:46/jmh
Silica	7.5	mg/L		0.2		2	E200.7	01/30/09 21:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1400	umhos/cm		5.0		1	A2510 B	01/22/09 15:08/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	8.05	s.u.		0.01		1	A4500-H B	01/22/09 10:19/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	01/26/09 09:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 19:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 20:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 21:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 21:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:05/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 19:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 20:05/eli-c

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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: R09010301-013
Client Sample ID: DewBurd GW696

Report Date: 03/17/09
Collection Date: 01/20/09 16:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.2	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Alpha MDC	3.6	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta	6.4	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/07/09 01:12/eli-cα
Lead 210	0.4	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.0	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.61	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	940	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	-0.035	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.50	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 13:41/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:41/eli-cα

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-013
Client Sample ID: DewBurd GW696

Report Date: 03/17/09
Collection Date: 01/20/09 16:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	250	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	58.2	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/04/09 20:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:40/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:40/eli-c
Iron	0.14	mg/L	D	0.04		2	E200.7	02/05/09 19:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:40/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	01/30/09 21:40/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 11:21/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 20:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:40/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 20:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:40/eli-c
Strontium	0.8	mg/L		0.1		1	E200.8	02/04/09 20:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:40/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 21:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 21:40/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.22	%				1	A1030 E	03/16/09 00:00/lkl
Anions	14.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	13.4	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	921	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	03/16/09 00:00/lkl

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-014
Client Sample ID: DewBurd GW694

Report Date: 03/17/09
Collection Date: 01/20/09 17:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B	01/26/09 14:49/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:49/mb
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B	01/26/09 14:49/mb
Calcium	86.6	mg/L		0.5		2	E200.7	01/30/09 21:28/eli-c
Chloride	9	mg/L		1		1	E300.0	01/22/09 09:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/22/09 09:41/jmh
Magnesium	32.8	mg/L		0.5		2	E200.7	01/30/09 21:28/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 09:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 09:41/jmh
Potassium	12.3	mg/L		0.5		2	E200.7	01/30/09 21:28/eli-c
Sodium	162	mg/L		0.5		2	E200.7	01/30/09 21:28/eli-c
Sulfate	508	mg/L	D	3		50	E300.0	01/22/09 08:51/jmh
Silica	7.6	mg/L		0.2		2	E200.7	01/30/09 21:28/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1370	umhos/cm		5.0		1	A2510 B	01/22/09 15:10/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.55	s.u.		0.01		1	A4500-H B	01/22/09 10:20/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C	01/26/09 09:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	02/20/09 13:06/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 20:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 21:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:12/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 21:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:12/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	01/30/09 20:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 20:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 20:12/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	01/30/09 20:12/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-014
Client Sample ID: DewBurd GW694

Report Date: 03/17/09
Collection Date: 01/20/09 17:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 20:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	25.9	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Alpha MDC	3.7	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta	16.8	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Lead 210	-0.9	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.045	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.58	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1.7	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.056	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.59	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/18/09 15:51/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 15:51/eli-cα

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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-014
Client Sample ID: DewBurd GW694

Report Date: 03/17/09
Collection Date: 01/20/09 17:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	02/18/09 15:51/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	270	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	58.4	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 21:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/04/09 20:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 21:47/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 21:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 20:02/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 21:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 21:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 21:47/eli-c
Iron	0.15	mg/L	D	0.04		2	E200.7	02/05/09 20:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 21:47/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	01/30/09 21:47/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 11:28/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 20:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 21:47/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 20:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 21:47/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	02/04/09 20:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 21:47/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	01/30/09 21:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 21:47/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.05	%				1	A1030 E	03/16/09 00:00/lkl
Anions	15.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	14.4	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	956	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	03/16/09 00:00/lkl

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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 090126A-ALK-SEL-W	
Sample ID: LCS1_090126A	Laboratory Control Sample				Run: PH_COND1-R_090126A			01/26/09 12:59	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: MBLK1_090126A	Method Blank				Run: PH_COND1-R_090126A			01/26/09 13:00	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R09010301-004AMS	Sample Matrix Spike				Run: PH_COND1-R_090126A			01/26/09 14:06	
Alkalinity, Total as CaCO3	236	mg/L	5.0	92	80	120			
Sample ID: R09010301-004AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090126A			01/26/09 14:11	
Alkalinity, Total as CaCO3	244	mg/L	5.0	100	80	120	3.3	10	
Sample ID: R09010301-014AMS	Sample Matrix Spike				Run: PH_COND1-R_090126A			01/26/09 14:51	
Alkalinity, Total as CaCO3	296	mg/L	5.0	83	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090126A			01/26/09 14:53	
Alkalinity, Total as CaCO3	296	mg/L	5.0	83	80	120	0	10	
Method: A2510 B								Batch: 090122_1_COND-PROBE-W	
Sample ID: LCS_COND-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B			01/22/09 14:38	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B			01/22/09 14:39	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B			01/22/09 14:40	
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_090122	Method Blank				Run: PH_COND2-R_090122B			01/22/09 14:40	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R09010301-007ADUP	Sample Duplicate				Run: PH_COND2-R_090122B			01/22/09 14:57	
Conductivity @ 25 C	1310	umhos/cm	5.0				0	10	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 090126A-SLDS-TDS-W	
Sample ID: LCS1_090126A	Laboratory Control Sample				Run: BAL-4-R_090126A			01/26/09 08:55	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_090126A	Method Blank				Run: BAL-4-R_090126A			01/26/09 08:57	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R09010301-002AMS	Sample Matrix Spike				Run: BAL-4-R_090126A			01/26/09 09:15	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	109	80	120			
Sample ID: R09010301-002AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_090126A			01/26/09 09:16	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	106	80	120	0.5	10	
Sample ID: R09010301-012AMS	Sample Matrix Spike				Run: BAL-4-R_090126A			01/26/09 09:23	
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	108	80	120			
Sample ID: R09010301-012AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_090126A			01/26/09 09:24	
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	101	80	120	1.4	10	
Method: A2580 B								Batch: 090127-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_090127A			01/27/09 11:00	
Oxidation-Reduction Potential	480	mV		100	95	105			
Sample ID: R09010301-010F	Sample Duplicate				Run: PH_COND1-R_090127A			01/27/09 11:00	
Oxidation-Reduction Potential	240	mV					0.4	10	
Method: A3114 B								Batch: C_SE3114-090224D-IV	
Sample ID: MBLK	Method Blank				Run: SUB-C115145			02/24/09 15:59	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02090	Laboratory Control Sample				Run: SUB-C115145			02/24/09 16:01	
Selenium-IV	0.054	mg/L	0.0010	108	90	110			
Sample ID: R09010301-001E	Sample Matrix Spike				Run: SUB-C115145			02/24/09 16:08	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R09010301-001E	Sample Matrix Spike Duplicate				Run: SUB-C115145			02/24/09 16:10	
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.2	10	
Sample ID: C09010797-010EMS	Sample Matrix Spike				Run: SUB-C115145			02/24/09 16:38	
Selenium-IV	0.049	mg/L	0.0010	99	85	115			
Sample ID: C09010797-010EMSD	Sample Matrix Spike Duplicate				Run: SUB-C115145			02/24/09 16:40	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	4.8	10	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: C_SE3114-090225A
Sample ID: MBLK	Method Blank				Run: SUB-C115157				02/25/09 10:00
Selenium	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02090	Laboratory Control Sample				Run: SUB-C115157				02/25/09 10:03
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R09010301-001E	Sample Matrix Spike				Run: SUB-C115157				02/25/09 10:09
Selenium	0.049	mg/L	0.0010	98	85	115			
Sample ID: R09010301-001E	Sample Matrix Spike Duplicate				Run: SUB-C115157				02/25/09 10:12
Selenium	0.050	mg/L	0.0010	99	85	115	1.4	15	
Sample ID: C09010797-010EMS	Sample Matrix Spike				Run: SUB-C115157				02/25/09 10:39
Selenium	0.047	mg/L	0.0010	94	85	115			
Sample ID: C09010797-010EMSD	Sample Matrix Spike Duplicate				Run: SUB-C115157				02/25/09 10:41
Selenium	0.048	mg/L	0.0010	97	85	115	3	15	
Method: A4500-H B									Batch: 090122_1_PH-W
Sample ID: LCS_pH-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122A				01/22/09 09:53
pH	6.88	s.u.	0.010	100	98.55	101.45			
Sample ID: R09010301-007ADUP	Sample Duplicate				Run: PH_COND2-R_090122A				01/22/09 10:11
pH	7.85	s.u.	0.010				0	1.25	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2009-01-21_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_090121A			01/21/09 15:03	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_090121A			01/21/09 15:05	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_090121A			01/21/09 15:06	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	103	90	110			
Sample ID: R09010278-006CMS	Sample Matrix Spike				Run: TECHAA2-R_090121A			01/21/09 17:01	
Nitrogen, Ammonia as N	0.18	mg/L	0.10	73	80	120			S
Sample ID: R09010278-006CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090121A			01/21/09 17:02	
Nitrogen, Ammonia as N	0.18	mg/L	0.10	73	80	120	0	10	S
Sample ID: R09010301-005BMS	Sample Matrix Spike				Run: TECHAA2-R_090121A			01/21/09 17:15	
Nitrogen, Ammonia as N	0.44	mg/L	0.10	110	80	120			
Sample ID: R09010301-005BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090121A			01/21/09 17:16	
Nitrogen, Ammonia as N	0.44	mg/L	0.10	110	80	120	0	10	
Sample ID: R09010301-013BMS	Sample Matrix Spike				Run: TECHAA2-R_090121A			01/21/09 17:29	
Nitrogen, Ammonia as N	0.63	mg/L	0.10	99	80	120			
Sample ID: R09010301-013BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090121A			01/21/09 17:30	
Nitrogen, Ammonia as N	0.65	mg/L	0.10	108	80	120	3.3	10	
Method: D5072-92								Batch: C_R113850	
Sample ID: C09010745-002CDUP	Sample Duplicate				Run: SUB-C113850			01/23/09 14:10	
Radon 222	150	pCi/L	100				0	30	
Sample ID: R09010302-001G	Sample Duplicate				Run: SUB-C113850			01/23/09 14:10	
Radon 222	133	pCi/L	100				14	30	
Sample ID: MB-R113850	Method Blank				Run: SUB-C113850			01/23/09 14:10	
Radon 222	30	pCi/L							U
Sample ID: LCS-R113850	Laboratory Control Sample				Run: SUB-C113850			01/23/09 14:10	
Radon 222	307	pCi/L	100	90	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_21342
Sample ID: MB-21342	Method Blank				Run: SUB-C114422				02/07/09 03:07
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.01						
Sample ID: LCS3-21342	Laboratory Control Sample				Run: SUB-C114422				02/07/09 03:12
Boron	0.482	mg/L	0.10	96	85	115			
Iron	2.54	mg/L	0.030	102	85	115			
Sample ID: R09010301-009D	Sample Matrix Spike				Run: SUB-C114422				02/07/09 03:35
Boron	0.512	mg/L	0.10	94	70	130			
Iron	6.94	mg/L	0.030	94	70	130			
Sample ID: R09010301-009D	Sample Matrix Spike Duplicate				Run: SUB-C114422				02/07/09 03:40
Boron	0.559	mg/L	0.10	103	70	130	8.7	20	
Iron	7.30	mg/L	0.030	108	70	130	5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R114100	
Sample ID: LRB	Method Blank				Run: SUB-C114100			01/30/09 15:45	
Boron	ND	mg/L	0.006						
Iron	0.005	mg/L	0.0004						
Silicon	ND	mg/L	0.003						
Calcium	ND	mg/L	0.02						
Magnesium	ND	mg/L	0.01						
Potassium	ND	mg/L	0.005						
Sodium	-0.05	mg/L							
Silica	ND	mg/L	0.005						
Sample ID: C09010796-010BMS	Sample Matrix Spike				Run: SUB-C114100			01/30/09 19:38	
Boron	15.4	mg/L	0.14	104	70	130			
Iron	13.1	mg/L	0.030	101	70	130			
Silicon	57.6	mg/L	0.10		70	130			A
Calcium	2910	mg/L	1.0	100	70	130			
Magnesium	1590	mg/L	1.0	103	70	130			
Potassium	1580	mg/L	1.0	112	70	130			
Sodium	3000	mg/L	1.0	103	70	130			
Silica	123	mg/L	0.21	452	70	130			S
Sample ID: C09010796-010BMSD	Sample Matrix Spike Duplicate				Run: SUB-C114100			01/30/09 19:43	
Boron	16.0	mg/L	0.14	109	70	130	3.7	20	
Iron	13.6	mg/L	0.030	105	70	130	3.4	20	
Silicon	58.8	mg/L	0.10		70	130	2	20	A
Calcium	3010	mg/L	1.0	108	70	130	3.5	20	
Magnesium	1630	mg/L	1.0	106	70	130	2.7	20	
Potassium	1610	mg/L	1.0	114	70	130	1.5	20	
Sodium	3020	mg/L	1.0	105	70	130	0.8	20	
Silica	126	mg/L	0.21	461	70	130	2	20	S
Sample ID: R09010301-010C	Sample Matrix Spike				Run: SUB-C114100			01/30/09 20:46	
Boron	1.19	mg/L	0.10	109	70	130			
Iron	7.94	mg/L	0.030		70	130			A
Silicon	4.63	mg/L	0.10		70	130			A
Calcium	459	mg/L	1.0	108	70	130			
Magnesium	222	mg/L	1.0	106	70	130			
Potassium	143	mg/L	1.0	120	70	130			
Sodium	264	mg/L	1.0	101	70	130			
Silica	9.92	mg/L	0.21	67	70	130			S
Sample ID: R09010301-010C	Sample Matrix Spike Duplicate				Run: SUB-C114100			01/30/09 20:51	
Boron	1.17	mg/L	0.10	108	70	130	1.5	20	
Iron	7.76	mg/L	0.030		70	130	2.2	20	A
Silicon	4.52	mg/L	0.10		70	130	2.5	20	A
Calcium	452	mg/L	1.0	100	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R114100
Sample ID: R09010301-010C	Sample Matrix Spike Duplicate				Run: SUB-C114100				01/30/09 20:51
Magnesium	219	mg/L	1.0	102	70	130	1.7	20	
Sodium	263	mg/L	1.0	100	70	130	0.4	20	
Silica	9.68	mg/L	0.21	55	70	130	2.5	20	S
Sample ID: C09010853-001BMS	Sample Matrix Spike				Run: SUB-C114100				01/30/09 22:19
Boron	1.08	mg/L	0.10	104	70	130			
Iron	1.06	mg/L	0.030	102	70	130			
Calcium	332	mg/L	1.0	103	70	130			
Magnesium	149	mg/L	1.0	104	70	130			
Potassium	128	mg/L	1.0	112	70	130			
Sodium	165	mg/L	1.0	103	70	130			
Silica	15.3	mg/L	0.21		70	130			A
Sample ID: C09010853-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C114100				01/30/09 22:23
Boron	1.08	mg/L	0.10	104	70	130	0.5	20	
Iron	1.06	mg/L	0.030	103	70	130	0.2	20	
Calcium	337	mg/L	1.0	108	70	130	1.5	20	
Magnesium	149	mg/L	1.0	104	70	130	0.3	20	
Potassium	128	mg/L	1.0	112	70	130	0.3	20	
Sodium	166	mg/L	1.0	104	70	130	0.6	20	
Silica	15.6	mg/L	0.21		70	130	2	20	A
Method: E200.7									Batch: C_R114362
Sample ID: LRB	Method Blank				Run: SUB-C114362				02/05/09 12:03
Boron	0.007	mg/L	0.006						
Iron	0.006	mg/L	0.0004						
Sample ID: R09010301-004D	Sample Matrix Spike				Run: SUB-C114362				02/05/09 19:05
Boron	5.41	mg/L	0.37	106	70	130			
Iron	6.63	mg/L	0.22	104	70	130			
Sample ID: R09010301-004D	Sample Matrix Spike Duplicate				Run: SUB-C114362				02/05/09 19:10
Boron	5.64	mg/L	0.37	111	70	130	4.3	20	
Iron	6.90	mg/L	0.22	109	70	130	4	20	
Sample ID: R09010302-001D	Sample Matrix Spike				Run: SUB-C114362				02/05/09 20:15
Boron	1.44	mg/L	0.10	106	70	130			
Iron	1.74	mg/L	0.043	104	70	130			
Sample ID: R09010302-001D	Sample Matrix Spike Duplicate				Run: SUB-C114362				02/05/09 20:20
Boron	1.49	mg/L	0.10	110	70	130	3	20	
Iron	1.77	mg/L	0.043	107	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R115011
Sample ID: MB-090220A	Method Blank				Run: SUB-C115011				02/20/09 12:54
Aluminum	ND	mg/L	0.003						
Sample ID: LFB-090220A	Laboratory Fortified Blank				Run: SUB-C115011				02/20/09 12:58
Aluminum	0.95	mg/L	0.10	95	85	125			
Sample ID: C09010797-014CMS2	Sample Matrix Spike				Run: SUB-C115011				02/20/09 13:10
Aluminum	1.92	mg/L	0.10	94	70	130			
Sample ID: C09010797-014CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C115011				02/20/09 13:14
Aluminum	1.92	mg/L	0.10	94	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_21342
Sample ID: MB-21342	Method Blank				Run: SUB-C114332				02/04/09 16:21
Antimony	0.0004	mg/L	0.0003						
Arsenic	0.002	mg/L	0.0008						
Barium	ND	mg/L	0.0002						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	7E-05						
Chromium	0.002	mg/L	0.0005						
Copper	0.0004	mg/L	0.0002						
Lead	ND	mg/L	8E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	ND	mg/L	9E-05						
Nickel	ND	mg/L	9E-05						
Selenium	0.002	mg/L	0.0008						
Silver	ND	mg/L	0.0002						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	0.0004						
Uranium	ND	mg/L	6E-05						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-21342	Laboratory Control Sample				Run: SUB-C114332				02/04/09 16:28
Antimony	0.584	mg/L	0.050	117	85	115			S
Arsenic	0.497	mg/L	0.0010	99	85	115			
Barium	0.511	mg/L	0.10	102	85	115			
Beryllium	0.276	mg/L	0.010	110	85	115			
Cadmium	0.251	mg/L	0.010	100	85	115			
Chromium	0.465	mg/L	0.050	93	85	115			
Copper	0.476	mg/L	0.010	95	85	115			
Lead	0.498	mg/L	0.050	100	85	115			
Manganese	2.43	mg/L	0.010	97	85	115			
Molybdenum	0.516	mg/L	0.10	103	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.498	mg/L	0.0010	100	85	115			
Silver	0.0500	mg/L	0.010	100	85	115			
Strontium	0.504	mg/L	0.10	101	85	115			
Thallium	0.497	mg/L	0.10	99	85	115			
Uranium	0.525	mg/L	0.00030	105	85	115			
Zinc	0.485	mg/L	0.010	97	85	115			
Sample ID: R09010301-009D	Sample Matrix Spike				Run: SUB-C114332				02/04/09 17:29
Antimony	0.585	mg/L	0.050	117	70	130			
Arsenic	0.507	mg/L	0.0010	101	70	130			
Barium	0.529	mg/L	0.10	104	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.242	mg/L	0.010	97	70	130			

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_21342	
Sample ID: R09010301-009D	Sample Matrix Spike				Run: SUB-C114332			02/04/09 17:29	
Chromium	0.461	mg/L	0.050	90	70	130			
Copper	0.468	mg/L	0.010	93	70	130			
Lead	0.508	mg/L	0.050	101	70	130			
Manganese	4.66	mg/L	0.010	92	70	130			
Molybdenum	0.531	mg/L	0.10	106	70	130			
Nickel	0.471	mg/L	0.050	93	70	130			
Selenium	0.499	mg/L	0.0010	99	70	130			
Silver	0.0483	mg/L	0.010	97	70	130			
Strontium	5.32	mg/L	0.10		70	130			A
Thallium	0.512	mg/L	0.10	102	70	130			
Uranium	0.660	mg/L	0.00030	110	70	130			
Zinc	0.455	mg/L	0.010	89	70	130			
Sample ID: R09010301-009D	Sample Matrix Spike Duplicate				Run: SUB-C114332			02/04/09 17:36	
Antimony	0.586	mg/L	0.050	117	70	130	0.1	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	1	20	
Barium	0.526	mg/L	0.10	103	70	130	0.5	20	
Beryllium	0.258	mg/L	0.010	103	70	130	2.3	20	
Cadmium	0.244	mg/L	0.010	97	70	130	0.8	20	
Chromium	0.445	mg/L	0.050	87	70	130	3.5	20	
Copper	0.455	mg/L	0.010	90	70	130	2.9	20	
Lead	0.499	mg/L	0.050	100	70	130	1.8	20	
Manganese	4.57	mg/L	0.010	88	70	130	2	20	
Molybdenum	0.541	mg/L	0.10	108	70	130	2	20	
Nickel	0.460	mg/L	0.050	91	70	130	2.3	20	
Selenium	0.499	mg/L	0.0010	99	70	130	0	20	
Silver	0.0494	mg/L	0.010	99	70	130	2.3	20	
Strontium	5.28	mg/L	0.10		70	130	0.8	20	A
Thallium	0.501	mg/L	0.10	100	70	130	2.2	20	
Uranium	0.634	mg/L	0.00030	105	70	130	3.9	20	
Zinc	0.443	mg/L	0.010	87	70	130	2.6	20	

Qualifiers:

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ND - Not detected at the reporting limit.

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_21458
Sample ID: MB-21458	Method Blank				Run: SUB-C114869				02/18/09 22:43
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21458	Laboratory Control Sample				Run: SUB-C114869				02/18/09 22:47
Uranium	0.102	mg/L	0.00030	102	80	120			
Sample ID: R09010301-006I	Post Digestion Spike				Run: SUB-C114869				02/18/09 23:35
Uranium	0.0127	mg/L	0.00030	101	70	130			
Sample ID: R09010301-006I	Post Digestion Spike Duplicate				Run: SUB-C114869				02/18/09 23:39
Uranium	0.0128	mg/L	0.00030	102	70	130	0.5	20	
Method: E200.8									Batch: C_21459
Sample ID: MB-21459	Method Blank				Run: SUB-C114869				02/18/09 23:47
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21459	Laboratory Control Sample				Run: SUB-C114869				02/18/09 23:51
Uranium	0.105	mg/L	0.00030	105	80	120			
Sample ID: R09010302-001I	Post Digestion Spike				Run: SUB-C114869				02/19/09 01:49
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R09010302-001I	Post Digestion Spike Duplicate				Run: SUB-C114869				02/19/09 01:53
Uranium	0.0127	mg/L	0.00030	101	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: LRB	Method Blank				Run: SUB-C114097				01/30/09 16:42
Antimony	0.0004	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	0.0001	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	9E-05	mg/L	4E-05						
Lead	5E-05	mg/L	2E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	6E-05	mg/L	2E-05						
Strontium	0.0006	mg/L	2E-05						
Thallium	4E-05	mg/L	3E-05						
Thorium 232	0.0001	mg/L	3E-05						
Uranium	0.0001	mg/L	8E-06						
Vanadium	0.0001	mg/L	9E-05						
Zinc	0.0004	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114097				01/30/09 16:49
Antimony	0.0523	mg/L	0.0010	104	85	115			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Beryllium	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0521	mg/L	0.0010	104	85	115			
Chromium	0.0495	mg/L	0.0010	99	85	115			
Copper	0.0521	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Mercury	0.00528	mg/L	0.0010	106	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0524	mg/L	0.0010	105	85	115			
Silver	0.0212	mg/L	0.0010	106	85	115			
Strontium	0.0503	mg/L	0.0010	99	85	115			
Thallium	0.0521	mg/L	0.0010	104	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0514	mg/L	0.00030	103	85	115			
Vanadium	0.0489	mg/L	0.0010	98	85	115			
Zinc	0.0557	mg/L	0.0010	111	85	115			
Sample ID: C09010693-001CMS4	Post Digestion Spike				Run: SUB-C114097				01/30/09 17:22
Antimony	0.0563	mg/L	0.050	112	70	130			

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: C09010693-001CMS4	Post Digestion Spike				Run: SUB-C114097				01/30/09 17:22
Arsenic	0.0574	mg/L	0.0010	114	70	130			
Barium	0.0719	mg/L	0.10	109	70	130			
Beryllium	0.0485	mg/L	0.010	97	70	130			
Cadmium	0.0513	mg/L	0.010	102	70	130			
Chromium	0.0493	mg/L	0.050	98	70	130			
Copper	0.0541	mg/L	0.010	97	70	130			
Lead	0.0541	mg/L	0.050	108	70	130			
Manganese	0.551	mg/L	0.010		70	130			A
Mercury	0.00544	mg/L	0.0010	109	70	130			
Molybdenum	0.0581	mg/L	0.10	110	70	130			
Nickel	0.0582	mg/L	0.050	104	70	130			
Silver	0.0186	mg/L	0.010	93	70	130			
Strontium	1.86	mg/L	0.10		70	130			A
Thallium	0.0545	mg/L	0.10	109	70	130			
Thorium 232	0.0584	mg/L	0.0010	116	70	130			
Uranium	0.0587	mg/L	0.00030	115	70	130			
Vanadium	0.0496	mg/L	0.10	99	70	130			
Zinc	0.0789	mg/L	0.010	93	70	130			
Sample ID: C09010693-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C114097				01/30/09 17:29
Antimony	0.0566	mg/L	0.050	112	70	130	0.5	20	
Arsenic	0.0560	mg/L	0.0010	111	70	130	2.5	20	
Barium	0.0724	mg/L	0.10	110	70	130		20	
Beryllium	0.0473	mg/L	0.010	95	70	130	2.6	20	
Cadmium	0.0513	mg/L	0.010	102	70	130	0.1	20	
Chromium	0.0494	mg/L	0.050	98	70	130		20	
Copper	0.0539	mg/L	0.010	97	70	130	0.4	20	
Lead	0.0542	mg/L	0.050	108	70	130	0.2	20	
Manganese	0.549	mg/L	0.010		70	130	0.4	20	A
Mercury	0.00547	mg/L	0.0010	109	70	130	0.5	20	
Molybdenum	0.0584	mg/L	0.10	111	70	130		20	
Nickel	0.0572	mg/L	0.050	102	70	130	1.8	20	
Silver	0.0192	mg/L	0.010	96	70	130	3.1	20	
Strontium	1.86	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0548	mg/L	0.10	109	70	130		20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	0.2	20	
Uranium	0.0588	mg/L	0.00030	115	70	130	0.1	20	
Vanadium	0.0493	mg/L	0.10	98	70	130		20	
Zinc	0.0783	mg/L	0.010	92	70	130	0.7	20	
Sample ID: R09010301-010C	Post Digestion Spike				Run: SUB-C114097				01/30/09 19:11
Antimony	0.272	mg/L	0.050	109	70	130			
Arsenic	0.278	mg/L	0.0010	111	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: R09010301-010C	Post Digestion Spike				Run: SUB-C114097				01/30/09 19:11
Barium	0.282	mg/L	0.10	108	70	130			
Beryllium	0.247	mg/L	0.010	99	70	130			
Cadmium	0.259	mg/L	0.010	103	70	130			
Chromium	0.252	mg/L	0.050	100	70	130			
Copper	0.252	mg/L	0.010	100	70	130			
Lead	0.263	mg/L	0.050	105	70	130			
Manganese	1.41	mg/L	0.010		70	130			A
Molybdenum	0.277	mg/L	0.10	109	70	130			
Nickel	0.257	mg/L	0.050	101	70	130			
Silver	0.0681	mg/L	0.010	68	70	130			S
Strontium	6.64	mg/L	0.10		70	130			A
Thallium	0.261	mg/L	0.10	104	70	130			
Thorium 232	0.271	mg/L	0.0010	108	70	130			
Uranium	0.274	mg/L	0.00030	108	70	130			
Vanadium	0.252	mg/L	0.10	101	70	130			
Zinc	0.267	mg/L	0.010	97	70	130			
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114097				01/30/09 21:53
Antimony	0.0547	mg/L	0.050	109	70	130			
Barium	0.0636	mg/L	0.10	108	70	130			
Beryllium	0.0525	mg/L	0.010	105	70	130			
Cadmium	0.0521	mg/L	0.010	104	70	130			
Chromium	0.0515	mg/L	0.050	103	70	130			
Copper	0.0497	mg/L	0.010	98	70	130			
Lead	0.0522	mg/L	0.050	104	70	130			
Manganese	0.213	mg/L	0.010	117	70	130			
Nickel	0.0504	mg/L	0.050	98	70	130			
Silver	0.0191	mg/L	0.010	96	70	130			
Thallium	0.0523	mg/L	0.10	105	70	130			
Thorium 232	0.0573	mg/L	0.0010	115	70	130			
Uranium	0.0581	mg/L	0.00030	115	70	130			
Vanadium	0.0522	mg/L	0.10	104	70	130			
Zinc	0.0548	mg/L	0.010	102	70	130			
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114097				01/30/09 22:00
Antimony	0.0550	mg/L	0.050	110	70	130	0.5	20	
Barium	0.0631	mg/L	0.10	107	70	130		20	
Beryllium	0.0536	mg/L	0.010	107	70	130	2.2	20	
Cadmium	0.0516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.0523	mg/L	0.050	104	70	130	1.5	20	
Copper	0.0493	mg/L	0.010	97	70	130	0.8	20	
Lead	0.0534	mg/L	0.050	107	70	130	2.3	20	
Manganese	0.218	mg/L	0.010	128	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114097				01/30/09 22:00
Nickel	0.0500	mg/L	0.050	97	70	130		20	
Silver	0.0200	mg/L	0.010	100	70	130	4.3	20	
Thallium	0.0535	mg/L	0.10	107	70	130		20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	2.1	20	
Uranium	0.0591	mg/L	0.00030	117	70	130	1.7	20	
Vanadium	0.0532	mg/L	0.10	106	70	130		20	
Zinc	0.0545	mg/L	0.010	101	70	130	0.7	20	
Method: E200.8									Batch: C_R114166
Sample ID: LRB	Method Blank				Run: SUB-C114166				02/02/09 11:50
Manganese	ND	mg/L	5E-05						
Vanadium	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114166				02/02/09 11:56
Manganese	0.0509	mg/L	0.0010	102	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Sample ID: R09010301-010C	Post Digestion Spike				Run: SUB-C114166				02/02/09 22:45
Manganese	1.15	mg/L	0.010		70	130			A
Vanadium	0.0488	mg/L	0.10	97	70	130			
Sample ID: R09010301-010C	Post Digestion Spike Duplicate				Run: SUB-C114166				02/02/09 22:50
Manganese	1.14	mg/L	0.010		70	130	1.1	20	A
Vanadium	0.0483	mg/L	0.10	96	70	130		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.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114210
Sample ID: LRB	Method Blank				Run: SUB-C114210				02/03/09 14:15
Aluminum	0.003	mg/L	0.002						
Chromium	0.0001	mg/L	8E-05						
Mercury	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114210				02/03/09 14:22
Aluminum	0.0530	mg/L	0.0022	99	85	115			
Chromium	0.0490	mg/L	0.0010	98	85	115			
Mercury	0.00500	mg/L	0.0010	100	85	115			
Nickel	0.0485	mg/L	0.0010	97	85	115			
Sample ID: R09010301-008C	Post Digestion Spike				Run: SUB-C114210				02/03/09 17:52
Aluminum	0.0553	mg/L	0.10	104	70	130			
Chromium	0.0490	mg/L	0.050	96	70	130			
Mercury	0.00559	mg/L	0.0010	112	70	130			
Nickel	0.0480	mg/L	0.050	94	70	130			
Sample ID: R09010301-008C	Post Digestion Spike Duplicate				Run: SUB-C114210				02/03/09 17:59
Aluminum	0.0567	mg/L	0.10	107	70	130			20
Chromium	0.0492	mg/L	0.050	97	70	130			20
Mercury	0.00553	mg/L	0.0010	111	70	130	1.1		20
Nickel	0.0477	mg/L	0.050	94	70	130			20

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R114332	
Sample ID: LRB	Method Blank				Run: SUB-C114332			02/04/09 12:58	
Arsenic	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	4E-05						
Selenium	ND	mg/L	0.001						
Strontium	ND	mg/L	2E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114332			02/04/09 13:05	
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Molybdenum	0.0512	mg/L	0.0010	102	85	115			
Selenium	0.0509	mg/L	0.0014	102	85	115			
Strontium	0.0504	mg/L	0.0010	101	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114332			02/04/09 20:46	
Arsenic	0.0543	mg/L	0.0010	105	70	130			
Molybdenum	0.0531	mg/L	0.050	105	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Strontium	2.74	mg/L	0.10		70	130			A
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114332			02/04/09 20:53	
Arsenic	0.0551	mg/L	0.0010	107	70	130	1.5	20	
Molybdenum	0.0544	mg/L	0.050	107	70	130	2.5	20	
Selenium	0.0524	mg/L	0.0010	105	70	130	3	20	
Strontium	2.75	mg/L	0.10		70	130	0.3	20	A
Method: E200.8								Batch: C_R114411	
Sample ID: LRB	Method Blank				Run: SUB-C114411			02/06/09 13:14	
Selenium	ND	mg/L	0.001						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114411			02/06/09 13:21	
Selenium	0.0524	mg/L	0.0014	105	85	115			
Sample ID: C09011015-001BMS4	Post Digestion Spike				Run: SUB-C114411			02/06/09 16:25	
Selenium	0.0546	mg/L	0.0010	106	70	130			
Sample ID: C09011015-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C114411			02/06/09 16:31	
Selenium	0.0543	mg/L	0.0010	106	70	130	0.5	20	

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114880
Sample ID: LRB	Method Blank				Run: SUB-C114880				02/18/09 13:34
Aluminum	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114880				02/18/09 13:41
Aluminum	0.0453	mg/L	0.0022	91	85	115			
Sample ID: C09020383-007BMS4	Post Digestion Spike				Run: SUB-C114880				02/18/09 15:50
Aluminum	0.0521	mg/L	0.10	100	70	130			
Sample ID: C09020383-007BMSD4	Post Digestion Spike Duplicate				Run: SUB-C114880				02/18/09 15:57
Aluminum	0.0521	mg/L	0.10	100	70	130		20	
Method: E245.1									Batch: B_36915
Sample ID: MB-36915	Method Blank				Run: SUB-B123917				01/26/09 09:36
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36915	Laboratory Fortified Blank				Run: SUB-B123917				01/26/09 09:45
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B09011705-001BMS	Sample Matrix Spike				Run: SUB-B123917				01/26/09 09:52
Mercury	0.0018	mg/L	0.0010	89	70	130			
Sample ID: B09011705-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-B123917				01/26/09 09:54
Mercury	0.0018	mg/L	0.0010	89	70	130	0	30	
Sample ID: R09010294-001C	Sample Matrix Spike				Run: SUB-B123917				01/26/09 10:15
Mercury	0.0018	mg/L	0.00020	89	70	130			
Sample ID: R09010294-001C	Sample Matrix Spike Duplicate				Run: SUB-B123917				01/26/09 10:17
Mercury	0.0018	mg/L	0.00020	88	70	130	1.1	30	
Method: E245.1									Batch: B_36926
Sample ID: MB-36926	Method Blank				Run: SUB-B123917				01/26/09 11:14
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36926	Laboratory Fortified Blank				Run: SUB-B123917				01/26/09 11:16
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: R09010301-013J	Sample Matrix Spike				Run: SUB-B123917				01/26/09 11:23
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: R09010301-013J	Sample Matrix Spike Duplicate				Run: SUB-B123917				01/26/09 11:25
Mercury	0.0019	mg/L	0.0010	94	70	130	2.2	30	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B123917	
Sample ID: QCS	Initial Calibration Verification Standard							01/26/09 09:28	
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R39252
Sample ID: LFB0901211057-3	Laboratory Fortified Blank				Run: DIONEX_090121A				01/21/09 19:10
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0901211057-4	Laboratory Fortified Blank				Run: DIONEX_090121A				01/21/09 19:27
Chloride	4.52	mg/L	0.50	90	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09010301-002AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/21/09 23:17
Chloride	249	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	82	80	120			
Sample ID: R09010301-002AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090121A				01/21/09 23:33
Chloride	233	mg/L	5.4	83	80	120	6.8	10	
Fluoride	95.4	mg/L	0.56	94	80	120	7	10	
Nitrogen, Nitrate as N	109	mg/L	1.3	87	80	120	7.4	10	
Nitrogen, Nitrite as N	116	mg/L	2.9	92	80	120	7.1	10	
Sulfate	1070	mg/L	3.4	76	80	120	4	10	S
Sample ID: R09010301-006AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/22/09 02:34
Chloride	246	mg/L	5.4	89	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120			
Sulfate	1060	mg/L	3.4	82	80	120			
Sample ID: R09010301-006AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090121A				01/22/09 02:50
Chloride	237	mg/L	5.4	85	80	120	3.8	10	
Fluoride	98.0	mg/L	0.56	97	80	120	3.8	10	
Nitrogen, Nitrate as N	111	mg/L	1.3	89	80	120	4.1	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	95	80	120	4.1	10	
Sulfate	1020	mg/L	3.4	76	80	120	4	10	S
Sample ID: R09010301-010AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/22/09 05:51
Chloride	255	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	101	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R39252
Sample ID: R09010301-010AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/22/09 05:51
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1990	mg/L	3.4	91	80	120			
Sample ID: R09010301-010AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090121A				01/22/09 06:07
Chloride	243	mg/L	5.4	85	80	120	4.8	10	
Fluoride	98.0	mg/L	0.56	96	80	120	5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	89	80	120	5.1	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	95	80	120	5.4	10	
Sulfate	1930	mg/L	3.4	82	80	120	3.3	10	
Sample ID: R09010301-014AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/22/09 09:08
Chloride	248	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1130	mg/L	3.4	84	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090121A				01/22/09 09:24
Chloride	239	mg/L	5.4	86	80	120	3.6	10	
Fluoride	98.7	mg/L	0.56	97	80	120	3.7	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.5	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	3.3	10	
Sulfate	1120	mg/L	3.4	82	80	120	1.3	10	

Qualifiers:

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Client: RESPEC Inc
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Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0604
Sample ID: MB-GrAB-0604	Method Blank				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	1	pCi/L							
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.5	pCi/L							
Gross Beta	-2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	1	pCi/L							
Sample ID: UNAT-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	130	pCi/L		97	70	130			
Sample ID: Cs137-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Beta	84	pCi/L		92	70	130			
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	120	pCi/L		85	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	120	pCi/L		88	70	130	3.6	15.7	
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:23
Gross Beta	79	pCi/L		87	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Beta	82	pCi/L		89	70	130	3	16.4	
Method: E903.0									Batch: C_21458
Sample ID: R09010301-001I	Sample Matrix Spike				Run: SUB-C114911				02/18/09 13:43
Radium 226	19	pCi/L		102	70	130			
Sample ID: R09010301-001I	Sample Matrix Spike Duplicate				Run: SUB-C114911				02/18/09 13:43
Radium 226	18	pCi/L		102	70	130	2.9	24.4	
Sample ID: LCS-21458	Laboratory Control Sample				Run: SUB-C114911				02/18/09 13:43
Radium 226	70	pCi/L		96	70	130			
Sample ID: MB-21458	Method Blank				Run: SUB-C114911				02/18/09 15:52
Radium 226	0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							

Qualifiers:

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ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_21459
Sample ID: C09010797-007IMS	Sample Matrix Spike				Run: SUB-C114901				02/18/09 13:41
Radium 226	19	pCi/L		98	70	130			
Sample ID: C09010797-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C114901				02/18/09 13:41
Radium 226	19	pCi/L		97	70	130	1	24	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C114901				02/18/09 15:51
Radium 226	74	pCi/L		102	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C114901				02/18/09 15:51
Radium 226	-0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							
Method: E903.0									Batch: C_RA226-3432
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114417				02/05/09 12:53
Radium 226	16	pCi/L		105	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114417				02/05/09 12:53
Radium 226	15	pCi/L		96	70	130	8	25.6	
Sample ID: MB-RA226-3432	Method Blank				Run: SUB-C114417				02/05/09 14:35
Radium 226	-0.1	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: LCS-RA226-3432	Laboratory Control Sample				Run: SUB-C114417				02/05/09 14:35
Radium 226	8.6	pCi/L		111	70	130			
Method: E907.0									Batch: C_21458
Sample ID: C09010595-006AMS	Sample Matrix Spike				Run: SUB-C115513				03/03/09 16:30
Thorium 230	49.7	pCi/Filter		108	70	130			
Sample ID: C09010595-006AMSD	Sample Matrix Spike Duplicate				Run: SUB-C115513				03/03/09 16:30
Thorium 230	52.9	pCi/Filter		113	70	130	6.2	54	
Sample ID: LCS-21458	Laboratory Control Sample				Run: SUB-C115513				03/03/09 16:30
Thorium 230	5.21	pCi/Filter		109	70	130			
Sample ID: MB-21458	Method Blank				Run: SUB-C115513				03/03/09 16:30
Thorium 230	0.1	pCi/Filter							U

Qualifiers:

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ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_21459
Sample ID: R09010302-001I	Sample Matrix Spike				Run: SUB-C115509				03/01/09 14:58
Thorium 230	15	pCi/L		134	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: R09010302-001I	Sample Matrix Spike Duplicate				Run: SUB-C115509				03/01/09 14:58
Thorium 230	12	pCi/L		107	70	130	20	53	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115509				03/02/09 09:04
Thorium 230	5.2	pCi/L		113	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115509				03/02/09 09:04
Thorium 230	-0.07	pCi/L							U
Method: E907.0									Batch: C_RA-TH-ISO-0741
Sample ID: LCS-RA-TH-ISO-0741	Laboratory Control Sample				Run: SUB-C114512				02/05/09 16:36
Thorium 230	5.1	pCi/L	0.20	103	70	130			
Sample ID: R09010301-001H	Sample Matrix Spike				Run: SUB-C114512				02/05/09 16:36
Thorium 230	17	pCi/L	0.20	112	70	130			
Sample ID: R09010301-001H	Sample Matrix Spike Duplicate				Run: SUB-C114512				02/05/09 16:36
Thorium 230	16	pCi/L	0.20	98	70	130	8.8	42.4	
Sample ID: MB-RA-TH-ISO-0741	Method Blank				Run: SUB-C114512				02/06/09 08:45
Thorium 230	ND	pCi/L							U
Method: E909.0M									Batch: C_21458
Sample ID: R09010301-002I	Sample Matrix Spike				Run: SUB-C115433				02/12/09 09:35
Lead 210	230	pCi/L		81	70	130			
Sample ID: R09010301-002I	Sample Matrix Spike Duplicate				Run: SUB-C115433				02/12/09 09:35
Lead 210	230	pCi/L		82	70	130	0.8	30	
Sample ID: MB-R115433	Method Blank				Run: SUB-C115433				02/12/09 09:35
Lead 210	-0.3	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115433	Laboratory Control Sample				Run: SUB-C115433				02/12/09 09:35
Lead 210	110	pCi/L		95	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R114833
Sample ID: C09010853-001DMS	Sample Matrix Spike				Run: SUB-C114833				02/03/09 10:43
Lead 210	94	pCi/L		78	70	130			
Sample ID: C09010853-002DMD	Sample Duplicate				Run: SUB-C114833				02/03/09 10:43
Lead 210	0.50	pCi/L					700	30	UR
Lead 210 precision (±)	5.1	pCi/L							
Lead 210 MDC	8.5	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R114833	Method Blank				Run: SUB-C114833				02/03/09 10:43
Lead 210	-0.7	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	4	pCi/L							
Sample ID: LCS-R114833	Laboratory Control Sample				Run: SUB-C114833				02/03/09 10:43
Lead 210	50	pCi/L		88	70	130			
Method: E909.0M									Batch: C_R115907
Sample ID: MB-R115907	Method Blank				Run: SUB-C115907				03/10/09 13:35
Lead 210	-1	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115907	Laboratory Control Sample				Run: SUB-C115907				03/10/09 13:35
Lead 210	65	pCi/L		97	70	130			
- No MS or MSD available due to spiking error by analyst..									
Method: RMO-3008									Batch: C_PO210-0181
Sample ID: R09010302-001K	Sample Matrix Spike				Run: SUB-C114991				02/13/09 14:35
Polonium 210	13	pCi/L		79	70	130			
Sample ID: R09010302-001K	Sample Matrix Spike Duplicate				Run: SUB-C114991				02/17/09 10:36
Polonium 210	17	pCi/L		103	70	130	26	58.3	
Sample ID: LCS-PO210-0181	Laboratory Control Sample				Run: SUB-C114991				02/17/09 10:36
Polonium 210	14	pCi/L		83	70	130			
Sample ID: MB-PO210-0181	Method Blank				Run: SUB-C114991				02/17/09 10:36
Polonium 210	-0.04	pCi/L							U
Polonium 210 MDC	0.7	pCi/L							
Polonium 210 precision (±)	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R115005
Sample ID: C09020173-003FMS	Sample Matrix Spike				Run: SUB-C115005				02/19/09 12:18
Polonium 210	21	pCi/L		74	70	130			
Sample ID: C09020173-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C115005				02/19/09 12:18
Polonium 210	32	pCi/L		113	70	130	39	53.2	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115005				02/19/09 12:18
Polonium 210	75	pCi/L		98	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115005				02/19/09 12:18
Polonium 210	0.08	pCi/L							U
Polonium 210 MDC	2	pCi/L							
Polonium 210 precision (±)	1.0	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Sample R09010301-001A not reported to LIMS DO NOT MAIL BLANK

SAMPLE ID: **R09010301-001A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**<1**	0.01
Ca	**<1**	0.01	SO4	**<1**	0.00
Mg	**<1**	0.00	T. Alkalinity	**<1**	0.00
K	**<1**	0.00	HCO3	<1	
Na	**<1**	0.01	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	<1		OH		
Hardness, grains/gal.	0.03		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**<0.1**		F	**<0.1**	0.00
			CN		
			Br	**<0.1**	0.00
	Total Cations	0.02		Total Anions	0.01

BALANCE, (± 5%) 34.15
BALANCE, "sigma" -0.08

	Measured	Calculated
Sample pH	**6.0**	
Conductivity (umho/cm)	**<1**	2
TDS	**<10**	<10
TDS Ratio	#VALUE!	
Resistivity (RW - ohm-m)		
Estimated Ionic Strength (from TDS)		0

Salinity	0.00
Cl as NaCl	0
Carbonate Hardness	0
Non-carbonate Hardness	0
Free CO2	
Total CO2	
SAR	0.07
Langlier Saturation Index	-7.4
Ryznar Index	20.82
Aggressive Index	#NUM!
Temp	20

Soft water.

SAMPLE ID: R09010301-001A

BALANCE, (± 5%) 34.15

Sample R09010301-002A not reported to LIMS

SAMPLE ID: **R09010301-002A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**10**	0.28
Ca	**85**	4.23	SO4	**499**	10.38
Mg	**30**	2.44	T. Alkalinity	**176**	3.52
K	**12**	0.31	HCO3	215	
Na	**173**	7.53	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	334		OH		
Hardness, grains/gal.	19.5		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**7.4**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	14.52		Total Anions	14.21

BALANCE, (± 5%) 1.07
BALANCE, "sigma" -0.94

	Measured	Calculated
Sample pH	**7.5**	
Conductivity (umho/cm)	**1310**	1220
TDS	**904**	934
TDS Ratio		0.97
Resistivity (RW - ohm-m)		7.63
Estimated Ionic Strength (from TDS)		0.0226

Salinity	0.67
Cl as NaCl	17
Carbonate Hardness	176
Non-carbonate Hardness	158
Free CO2	
Total CO2	
SAR	4.12
Langlier Saturation Index	0.1
Ryznar Index	7.27
Aggressive Index	12.03
Temp	20

Very hard water.

SAMPLE ID: R09010301-002A

BALANCE, (± 5%) 1.07

Sample R09010301-003A not reported to LIMS

SAMPLE ID: **R09010301-003A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**10**	0.28
Ca	**83**	4.16	SO4	**492**	10.24
Mg	**30**	2.42	T. Alkalinity	**178**	3.56
K	**12**	0.31	HCO3	217	
Na	**174**	7.56	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	330		OH		
Hardness, grains/gal.	19.3		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**7.4**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	14.48		Total Anions	14.11

BALANCE, (± 5%)	1.26
BALANCE, "sigma"	-1.11

	Measured	Calculated
Sample pH	**7.5**	
Conductivity (umho/cm)	**1310**	1210
TDS	**952**	928
TDS Ratio		1.03
Resistivity (RW - ohm-m)		7.63
Estimated Ionic Strength (from TDS)		0.0238

Salinity	0.67
Cl as NaCl	17
Carbonate Hardness	178
Non-carbonate Hardness	152
Free CO2	
Total CO2	
SAR	4.16
Langlier Saturation Index	0.2
Ryznar Index	7.21
Aggressive Index	12.10
Temp	20

Very hard water.

SAMPLE ID: R09010301-003A

BALANCE, (± 5%) 1.26

Sample R09010301-004A not reported to LIMS

SAMPLE ID: **R09010301-004A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**5**	0.14
Ca	**70**	3.51	SO4	**389**	8.10
Mg	**21**	1.73	T. Alkalinity	**138**	2.76
K	**10**	0.25	HCO3	168	
Na	**131**	5.68	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	262		OH		
Hardness, grains/gal.	15.3		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**7.8**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	11.18		Total Anions	11.03

BALANCE, (± 5%)	0.66
BALANCE, "sigma"	-0.53

	Measured	Calculated
Sample pH	**7.2**	
Conductivity (umho/cm)	**1050**	971
TDS	**716**	730
TDS Ratio		0.98
Resistivity (RW - ohm-m)		9.52
Estimated Ionic Strength (from TDS)		0.0179

Salinity	0.53
Cl as NaCl	8
Carbonate Hardness	138
Non-carbonate Hardness	124
Free CO2	
Total CO2	
SAR	3.51
Langlier Saturation Index	-0.3
Ryznar Index	7.85
Aggressive Index	11.57
Temp	20

Very hard water.

SAMPLE ID: R09010301-004A

BALANCE, (± 5%) 0.66

Sample R09010301-005A not reported to LIMS

SAMPLE ID: **R09010301-005A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**12**	0.33
Ca	**50**	2.49	SO4	**500**	10.41
Mg	**18**	1.50	T. Alkalinity	**174**	3.48
K	**9**	0.24	HCO3	212	
Na	**247**	10.74	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	200		OH		
Hardness, grains/gal.	11.7		NO3	**<0.1**	0.00
NH4+	**0.2**	0.01	PO4		
Si	**7.9**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	14.99		Total Anions	14.25

BALANCE, (± 5%) 2.54
BALANCE, "sigma" -2.27

	Measured	Calculated
Sample pH	**7.8**	
Conductivity (umho/cm)	**1350**	1230
TDS	**912**	962
TDS Ratio		0.95
Resistivity (RW - ohm-m)		7.41
Estimated Ionic Strength (from TDS)		0.0228

Salinity	0.69
Cl as NaCl	19
Carbonate Hardness	174
Non-carbonate Hardness	26
Free CO2	
Total CO2	
SAR	7.60
Langlier Saturation Index	0.2
Ryznar Index	7.39
Aggressive Index	12.15
Temp	20

Moderately hard water.

SAMPLE ID: R09010301-005A

BALANCE, (± 5%) 2.54

Sample R09010301-006A not reported to LIMS

SAMPLE ID: **R09010301-006A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**8**	0.23
Ca	**50**	2.48	SO4	**444**	9.25
Mg	**16**	1.35	T. Alkalinity	**168**	3.36
K	**9**	0.22	HCO3	205	
Na	**206**	8.97	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	192		OH		
Hardness, grains/gal.	11.2		NO3	**<0.1**	0.00
NH4+	**0.2**	0.01	PO4		
Si	**7.9**		F	**0.7**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	13.04		Total Anions	12.87

BALANCE, (± 5%) 0.64
BALANCE, "sigma" -0.54

	Measured	Calculated
Sample pH	**7.7**	
Conductivity (umho/cm)	**1220**	1100
TDS	**818**	856
TDS Ratio		0.96
Resistivity (RW - ohm-m)		8.20
Estimated Ionic Strength (from TDS)		0.0205

Salinity	0.62
Cl as NaCl	13
Carbonate Hardness	168
Non-carbonate Hardness	24
Free CO2	
Total CO2	
SAR	6.48
Langlier Saturation Index	0.1
Ryznar Index	7.48
Aggressive Index	12.05
Temp	20

Moderately hard water.

SAMPLE ID: R09010301-006A

BALANCE, (± 5%) 0.64

Sample R09010301-007A not reported to LIMS

SAMPLE ID: **R09010301-007A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**13**	0.36
Ca	**54**	2.67	SO4	**465**	9.69
Mg	**21**	1.72	T. Alkalinity	**170**	3.40
K	**10**	0.26	HCO3	207	
Na	**213**	9.25	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	220		OH		
Hardness, grains/gal.	12.9		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**7.8**		F	**0.6**	0.03
			CN		
			Br	**0.3**	0.00
	Total Cations	13.91		Total Anions	13.48

BALANCE, (± 5%)	1.57
BALANCE, "sigma"	-1.37

	Measured	Calculated
Sample pH	**7.9**	
Conductivity (umho/cm)	**1310**	1160
TDS	**944**	899
TDS Ratio		1.05
Resistivity (RW - ohm-m)		7.63
Estimated Ionic Strength (from TDS)		0.0236

Salinity	0.67
Cl as NaCl	21
Carbonate Hardness	170
Non-carbonate Hardness	50
Free CO2	
Total CO2	
SAR	6.23
Langlier Saturation Index	0.3
Ryznar Index	7.32
Aggressive Index	12.21
Temp	20

Very hard water.

SAMPLE ID: R09010301-007A

BALANCE, (± 5%) 1.57

Sample R09010301-008A not reported to LIMS

SAMPLE ID: **R09010301-008A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**5**	0.15
Ca	**45**	2.24	SO4	**399**	8.31
Mg	**16**	1.28	T. Alkalinity	**150**	3.00
K	**9**	0.23	HCO3	183	
Na	**177**	7.71	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	176		OH		
Hardness, grains/gal.	10.3		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**8.3**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	11.47		Total Anions	11.50

BALANCE, (± 5%) -0.13
BALANCE, "sigma" 0.11

	Measured	Calculated
Sample pH	**7.7**	
Conductivity (umho/cm)	**1080**	988
TDS	**782**	765
TDS Ratio		1.02
Resistivity (RW - ohm-m)		9.26
Estimated Ionic Strength (from TDS)		0.0196

Salinity	0.55
Cl as NaCl	9
Carbonate Hardness	150
Non-carbonate Hardness	26
Free CO2	
Total CO2	
SAR	5.82
Langlier Saturation Index	0.0
Ryznar Index	7.67
Aggressive Index	11.94
Temp	20

Moderately hard water.

SAMPLE ID: R09010301-008A

BALANCE, (± 5%) -0.13

Sample R09010301-009A not reported to LIMS

SAMPLE ID: **R09010301-009A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**10**	0.27
Ca	**341**	17.03	SO4	**1340**	27.94
Mg	**127**	10.48	T. Alkalinity	**118**	2.36
K	**16**	0.41	HCO3	144	
Na	**92**	4.00	CO3	<1	
Al	**<1**	0.00			
Fe	**2**	0.06			
Mn	**2**	0.17			
Hardness (as CaCO3)	1380		OH		
Hardness, grains/gal.	80.5		NO3	**<0.1**	0.00
NH4+	**0.1**	0.01	PO4		
Si	**10.2**		F	**0.4**	0.02
			CN		
			Br	**0.2**	0.00
	Total Cations	32.17		Total Anions	30.59

BALANCE, (± 5%) 2.51
BALANCE, "sigma" -2.72

	Measured	Calculated
Sample pH	**6.7**	
Conductivity (umho/cm)	**2410**	2670
TDS	**1670**	2030
TDS Ratio		0.82
Resistivity (RW - ohm-m)		4.15
Estimated Ionic Strength (from TDS)		0.0418

Salinity	1.25
Cl as NaCl	16
Carbonate Hardness	118
Non-carbonate Hardness	1259
Free CO2	
Total CO2	
SAR	1.08
Langlier Saturation Index	-0.3
Ryznar Index	7.29
Aggressive Index	11.74
Temp	20

Very hard water.

SAMPLE ID: R09010301-009A

BALANCE, (± 5%) 2.51

Sample R09010301-010A not reported to LIMS

SAMPLE ID: **R09010301-010A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**16**	0.44
Ca	**350**	17.45	SO4	**1310**	27.22
Mg	**114**	9.42	T. Alkalinity	**174**	3.48
K	**21**	0.53	HCO3	212	
Na	**161**	6.99	CO3	<1	
Al	**<1**	0.00			
Fe	**7**	0.25			
Mn	**1**	0.08			
Hardness (as CaCO3)	1340		OH		
Hardness, grains/gal.	78.6		NO3	**<0.1**	0.00
NH4+	**0.5**	0.03	PO4		
Si	**8.5**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	34.75		Total Anions	31.18

BALANCE, (± 5%) 5.42
BALANCE, "sigma" -6.06

	Measured	Calculated
Sample pH	**6.7**	
Conductivity (umho/cm)	**2600**	2720
TDS	**2080**	2100
TDS Ratio		0.99
Resistivity (RW - ohm-m)		3.85
Estimated Ionic Strength (from TDS)		0.0521

Salinity	1.35
Cl as NaCl	26
Carbonate Hardness	174
Non-carbonate Hardness	1171
Free CO2	
Total CO2	
SAR	1.90
Langlier Saturation Index	-0.2
Ryznar Index	7.07
Aggressive Index	11.85
Temp	20

Very hard water.

SAMPLE ID: R09010301-010A

BALANCE, (± 5%) 5.42

Sample R09010301-011A not reported to LIMS

SAMPLE ID: **R09010301-011A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**13**	0.36
Ca	**358**	17.87	SO4	**1370**	28.44
Mg	**117**	9.59	T. Alkalinity	**252**	5.04
K	**20**	0.51	HCO3	307	
Na	**145**	6.32	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.03			
Hardness (as CaCO3)	1370		OH		
Hardness, grains/gal.	80.4		NO3	**<0.1**	0.00
NH4+	**<0.1**	0.00	PO4		
Si	**8.7**		F	**0.5**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	34.32		Total Anions	33.87

BALANCE, (± 5%) 0.67
BALANCE, "sigma" -0.72

	Measured	Calculated
Sample pH	**7.1**	
Conductivity (umho/cm)	**2480**	2770
TDS	**2170**	2190
TDS Ratio	0.99	
Resistivity (RW - ohm-m)	4.03	
Estimated Ionic Strength (from TDS)	0.0542	

Salinity	1.29
Cl as NaCl	21
Carbonate Hardness	252
Non-carbonate Hardness	1122
Free CO2	
Total CO2	
SAR	1.70
Langlier Saturation Index	0.4
Ryznar Index	6.29
Aggressive Index	12.47
Temp	20

Very hard water.

SAMPLE ID: R09010301-011A

BALANCE, (± 5%) 0.67

Sample R09010301-012A not reported to LIMS

SAMPLE ID: **R09010301-012A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**11**	0.32
Ca	**49**	2.43	SO4	**436**	9.08
Mg	**21**	1.69	T. Alkalinity	**166**	3.32
K	**14**	0.36	HCO3	203	
Na	**189**	8.20	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	206		OH		
Hardness, grains/gal.	12.1		NO3	**<0.1**	0.00
NH4+	**0.2**	0.02	PO4		
Si	**7.7**		F	**0.6**	0.03
			CN		
			Br	**0.2**	0.00
	Total Cations	12.71		Total Anions	12.75

BALANCE, (± 5%) -0.14
BALANCE, "sigma" 0.12

	Measured	Calculated
Sample pH	**8.0**	
Conductivity (umho/cm)	**1210**	1080
TDS	**796**	840
TDS Ratio	0.95	
Resistivity (RW - ohm-m)	8.26	
Estimated Ionic Strength (from TDS)	0.0199	

Salinity	0.61
Cl as NaCl	18
Carbonate Hardness	166
Non-carbonate Hardness	40
Free CO2	
Total CO2	
SAR	5.71
Langlier Saturation Index	0.4
Ryznar Index	7.23
Aggressive Index	12.31
Temp	20

Very hard water.

SAMPLE ID: R09010301-012A

BALANCE, (± 5%) -0.14

Sample R09010301-013A not reported to LIMS

SAMPLE ID: **R09010301-013A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**12**	0.35
Ca	**27**	1.35	SO4	**483**	10.06
Mg	**10**	0.79	T. Alkalinity	**178**	3.56
K	**9**	0.23	HCO3	217	
Na	**253**	10.99	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	107		OH		
Hardness, grains/gal.	6.26		NO3	**<0.1**	0.00
NH4+	**0.4**	0.03	PO4		
Si	**7.5**		F	**0.5**	0.03
			CN		
			Br	**0.3**	0.00
	Total Cations	13.38		Total Anions	13.99

BALANCE, (± 5%) -2.22
BALANCE, "sigma" 1.88

	Measured	Calculated
Sample pH	**8.1**	
Conductivity (umho/cm)	**1400**	1160
TDS	**922**	921
TDS Ratio		1
Resistivity (RW - ohm-m)		7.14
Estimated Ionic Strength (from TDS)		0.0231

Salinity	0.71
Cl as NaCl	20
Carbonate Hardness	107
Non-carbonate Hardness	0
Free CO2	
Total CO2	
SAR	10.62
Langlier Saturation Index	0.2
Ryznar Index	7.67
Aggressive Index	12.13
Temp	20

Moderately hard water.

SAMPLE ID: R09010301-013A

BALANCE, (± 5%) -2.22

Sample R09010301-014A not reported to LIMS

SAMPLE ID: **R09010301-014A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**9**	0.25
Ca	**87**	4.32	SO4	**508**	10.57
Mg	**33**	2.70	T. Alkalinity	**208**	4.16
K	**12**	0.32	HCO3	254	
Na	**162**	7.03	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	351		OH		
Hardness, grains/gal.	20.5		NO3	**<0.1**	0.00
NH4+	**0.2**	0.02	PO4		
Si	**7.6**		F	**0.5**	0.02
			CN		
			Br	**0.2**	0.00
	Total Cations	14.40		Total Anions	15.00

BALANCE, (± 5%) -2.05
BALANCE, "sigma" 1.78

	Measured	Calculated
Sample pH	**7.6**	
Conductivity (umho/cm)	**1370**	1220
TDS	**958**	956
TDS Ratio		1
Resistivity (RW - ohm-m)		7.30
Estimated Ionic Strength (from TDS)		0.024

Salinity	0.70
Cl as NaCl	15
Carbonate Hardness	208
Non-carbonate Hardness	143
Free CO2	
Total CO2	
SAR	3.75
Langlier Saturation Index	0.3
Ryznar Index	7.03
Aggressive Index	12.20
Temp	20

Very hard water.

SAMPLE ID: R09010301-014A

BALANCE, (± 5%) -2.05

Linda Larson

From: Steve Carlston [scarlston@energylab.com]
Sent: Monday, March 16, 2009 4:40 PM
To: llarson@energylab.com
Subject: R09010301

Linda-dear;

Please change the metals report from L quals to D plus on the two seleniums please change the RL to 0.002 and the QUAL from B to D.

Thanks!

Steven Carlston
Project Manager, Technical Data Review
Toll Free: 888.235.0515 x3213
Office: 307.235.0515 x3213
Fax: 307.234.1639
scarlston@energylab.com

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ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Env.	Dew Burdock / Powertech	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
RESPEC			Allen Scott
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI 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

ANALYSIS REQUESTED

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

As per quote

SEE ATTACHED

Normal Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 2.4 °C

On Ice: Yes No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	Dew Burd Blk 01	1-20-09	7:00	water	B0901031-001
2	GW 622	1-20-09	10:51	water	002
3	GW 622	1-20-09	10:55	water	003
4	GW 615	1-20-09	11:10	"	004
5	GW 695	1-20-09	12:15	"	005
6	GW 697	1-20-09	12:35	"	006
7	GW 681	1-20-09	12:50	"	007
8	GW 689	1-20-09	13:05	"	008
9	GW 698	1-20-09	14:07	"	009
10	GW 3026	1-20-09	14:25	"	010

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	1-21-09 10:27				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Froland	1-26-09 1037	

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, and links.

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin State:	EPA/State Compliance:
Scott Env.	Dewey Burdock / Powertech		Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
RESPEC			allan Scott
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

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

ANALYSIS REQUESTED

as Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 2.4 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	GW 680	1-20-09	15:25	Water	B09010301-011
2	GW 689	1-20-09	15:35	"	012
3	Dgaids well	1-20-09	15:05	"	
4	GW 696	1-20-09	16:55	"	013
5	GW 694	1-20-09	17:00	"	014
6					
7					
8					
9					
10					

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
		1-21-09 10:37				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory: Steve Froland	Date/Time: 1-21-09 1035	Signature:

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, and links.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

March 17, 2009

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

Workorder No.: R09010302 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 1/21/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09010302-001	GW703	01/20/09 15:05	01/21/09	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R09010302

Date: *17-Mar-09*

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.
- The Mercury was run out of hold due to laboratory error.

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: B09011713
Prep Comments for Sample R09010302-001J, Test PRP-HG-245.1: The prep HoldTime was exceeded by 2.78 days.
Prep Comments for Sample R09010302-001J, Test PRP-HG-245.1: The prep HoldTime was exceeded by 2.78 days.
End of comments imported for SUBBED Workorder: B09011713

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010302-001
Client Sample ID: GW703

Report Date: 03/17/09
Collection Date: 01/20/09 15:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Calcium	72.6	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Chloride	16	mg/L		1		1	E300.0	01/22/09 10:13/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Nitrogen, Ammonia as N	1.6	mg/L		0.1		4	A4500-NH3 G	01/21/09 17:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Potassium	9.3	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Sodium	370	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Sulfate	828	mg/L	D	3		50	E300.0	01/22/09 09:57/jmh
Silica	4.2	mg/L		0.2		2	E200.7	01/30/09 21:32/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2420	umhos/cm		5.0		1	A2510 B	01/22/09 15:11/tb
Oxidation-Reduction Potential	88	mV				1	A2580 B	01/27/09 11:00/jmh
pH	11.4	s.u.		0.01		1	A4500-H B	01/22/09 10:22/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5		1	A2540 C	01/26/09 09:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	02/20/09 13:18/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/31/09 01:17/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	01/30/09 21:32/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/31/09 01:17/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/31/09 01:17/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	01/30/09 21:32/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Manganese	ND	mg/L		0.01		5	E200.8	01/31/09 01:17/eli-c
Mercury	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/31/09 01:17/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/31/09 01:17/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:57/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Uranium	0.0003	mg/L		0.0003		5	E200.8	01/31/09 01:17/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010302-001
Client Sample ID: GW703

Report Date: 03/17/09
Collection Date: 01/20/09 15:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/31/09 01:17/eli-c
Zinc	0.03	mg/L		0.01		5	E200.8	01/31/09 01:17/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:56/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	42.6	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Alpha precision (±)	6.0	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Alpha MDC	5.4	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta	14.2	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta precision (±)	4.2	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Gross Beta MDC	6.6	pCi/L				1	E900.0	02/07/09 01:11/eli-cα
Lead 210	1.0	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.015	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.53	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	0.4	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/05/09 14:35/eli-cα
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/08/09 11:55/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/08/09 11:55/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	02/04/09 14:00/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.047	pCi/L	U			1	RMO-3008	02/19/09 12:18/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	RMO-3008	02/19/09 12:18/eli-c
Polonium 210 MDC	0.58	pCi/L				1	RMO-3008	02/19/09 12:18/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 15:51/eli-cα
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 15:51/eli-cα

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

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010302-001
Client Sample ID: GW703

Report Date: 03/17/09
Collection Date: 01/20/09 15:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 15:51/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	153	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	57.7	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 21:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/04/09 21:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 21:00/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 21:00/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	02/05/09 20:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 21:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 21:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 21:00/eli-c
Iron	0.68	mg/L	D	0.04		2	E200.7	02/05/09 20:11/eli-c
Lead	0.007	mg/L		0.001		1	E200.8	02/04/09 21:00/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/04/09 21:00/eli-c
Mercury	ND	mg/L	H	0.001		1	E245.1	02/20/09 14:04/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 21:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/11/09 22:14/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 21:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 21:00/eli-c
Strontium	2.2	mg/L		0.1		1	E200.8	02/04/09 21:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 21:00/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/04/09 21:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/04/09 21:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.35	%				1	A1030 E	03/16/09 00:00/lkl
Anions	20.7	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	20.1	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	1400	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	03/16/09 00:00/lkl

Report Definitions:
RL - Analyte reporting limit.
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.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 090126A-ALK-SEL-W
Sample ID: LCS1_090126A	Laboratory Control Sample				Run: PH_COND1-R_090126A				01/26/09 12:59
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: MBLK1_090126A	Method Blank				Run: PH_COND1-R_090126A				01/26/09 13:00
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R09010301-014AMS	Sample Matrix Spike				Run: PH_COND1-R_090126A				01/26/09 14:51
Alkalinity, Total as CaCO3	296	mg/L	5.0	83	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090126A				01/26/09 14:53
Alkalinity, Total as CaCO3	296	mg/L	5.0	83	80	120	0	10	
Method: A2510 B									Batch: 090122_1_COND-PROBE-W
Sample ID: LCS_COND-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B				01/22/09 14:38
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B				01/22/09 14:39
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122B				01/22/09 14:40
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_090122	Method Blank				Run: PH_COND2-R_090122B				01/22/09 14:40
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R09010302-001ADUP	Sample Duplicate				Run: PH_COND2-R_090122B				01/22/09 15:12
Conductivity @ 25 C	2420	umhos/cm	5.0				0	10	
Method: A2540 C									Batch: 090126A-SLDS-TDS-W
Sample ID: LCS1_090126A	Laboratory Control Sample				Run: BAL-4-R_090126A				01/26/09 08:55
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_090126A	Method Blank				Run: BAL-4-R_090126A				01/26/09 08:57
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R09010301-012AMS	Sample Matrix Spike				Run: BAL-4-R_090126A				01/26/09 09:23
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	108	80	120			
Sample ID: R09010301-012AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_090126A				01/26/09 09:24
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	101	80	120	1.4	10	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 090127-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_090127A			01/27/09 11:00	
Oxidation-Reduction Potential	480	mV		100	95	105			
Sample ID: R09010302-001F	Sample Duplicate				Run: PH_COND1-R_090127A			01/27/09 11:00	
Oxidation-Reduction Potential	84	mV					4.3	10	
Method: A3114 B								Batch: C_SE3114-090224D-IV	
Sample ID: MBLK	Method Blank				Run: SUB-C115145			02/24/09 15:59	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02090	Laboratory Control Sample				Run: SUB-C115145			02/24/09 16:01	
Selenium-IV	0.054	mg/L	0.0010	108	90	110			
Sample ID: C09010797-010EMS	Sample Matrix Spike				Run: SUB-C115145			02/24/09 16:38	
Selenium-IV	0.049	mg/L	0.0010	99	85	115			
Sample ID: C09010797-010EMSD	Sample Matrix Spike Duplicate				Run: SUB-C115145			02/24/09 16:40	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	4.8	10	
Method: A3114 B								Batch: C_SE3114-090225A	
Sample ID: MBLK	Method Blank				Run: SUB-C115157			02/25/09 10:00	
Selenium	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02090	Laboratory Control Sample				Run: SUB-C115157			02/25/09 10:03	
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: C09010797-010EMS	Sample Matrix Spike				Run: SUB-C115157			02/25/09 10:39	
Selenium	0.047	mg/L	0.0010	94	85	115			
Sample ID: C09010797-010EMSD	Sample Matrix Spike Duplicate				Run: SUB-C115157			02/25/09 10:41	
Selenium	0.048	mg/L	0.0010	97	85	115	3	15	
Method: A4500-H B								Batch: 090122_1_PH-W	
Sample ID: LCS_pH-1_090122	Laboratory Control Sample				Run: PH_COND2-R_090122A			01/22/09 09:53	
pH	6.88	s.u.	0.010	100	98.55	101.45			
Sample ID: R09010302-001ADUP	Sample Duplicate				Run: PH_COND2-R_090122A			01/22/09 10:23	
pH	11.4	s.u.	0.010				0	1.25	

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2009-01-21_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_090121A			01/21/09 15:03	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_090121A			01/21/09 15:05	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_090121A			01/21/09 15:06	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	103	90	110			
Sample ID: R09010301-013BMS	Sample Matrix Spike				Run: TECHAA2-R_090121A			01/21/09 17:29	
Nitrogen, Ammonia as N	0.63	mg/L	0.10	99	80	120			
Sample ID: R09010301-013BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090121A			01/21/09 17:30	
Nitrogen, Ammonia as N	0.65	mg/L	0.10	108	80	120	3.3	10	
Method: D5072-92								Batch: C_R113850	
Sample ID: R09010302-001G	Sample Duplicate				Run: SUB-C113850			01/23/09 14:10	
Radon 222	133	pCi/L	100				14	30	
Sample ID: MB-R113850	Method Blank				Run: SUB-C113850			01/23/09 14:10	
Radon 222	30	pCi/L							U
Sample ID: LCS-R113850	Laboratory Control Sample				Run: SUB-C113850			01/23/09 14:10	
Radon 222	307	pCi/L	100	90	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R114100
Sample ID: LRB	Method Blank				Run: SUB-C114100				01/30/09 15:45
Boron	ND	mg/L	0.006						
Iron	0.005	mg/L	0.0004						
Silicon	ND	mg/L	0.003						
Calcium	ND	mg/L	0.02						
Magnesium	ND	mg/L	0.01						
Potassium	ND	mg/L	0.005						
Sodium	-0.05	mg/L							
Silica	ND	mg/L	0.005						
Sample ID: C09010853-001BMS	Sample Matrix Spike				Run: SUB-C114100				01/30/09 22:19
Boron	1.08	mg/L	0.10	104	70	130			
Iron	1.06	mg/L	0.030	102	70	130			
Silicon	7.13	mg/L	0.10		70	130			A
Calcium	332	mg/L	1.0	103	70	130			
Magnesium	149	mg/L	1.0	104	70	130			
Potassium	128	mg/L	1.0	112	70	130			
Sodium	165	mg/L	1.0	103	70	130			
Silica	15.3	mg/L	0.21		70	130			A
Sample ID: C09010853-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C114100				01/30/09 22:23
Boron	1.08	mg/L	0.10	104	70	130	0.5	20	
Iron	1.06	mg/L	0.030	103	70	130	0.2	20	
Silicon	7.28	mg/L	0.10		70	130	2	20	A
Calcium	337	mg/L	1.0	108	70	130	1.5	20	
Magnesium	149	mg/L	1.0	104	70	130	0.3	20	
Potassium	128	mg/L	1.0	112	70	130	0.3	20	
Sodium	166	mg/L	1.0	104	70	130	0.6	20	
Silica	15.6	mg/L	0.21		70	130	2	20	A
Method: E200.7									Batch: C_R114362
Sample ID: LRB	Method Blank				Run: SUB-C114362				02/05/09 12:03
Boron	0.007	mg/L	0.006						
Iron	0.006	mg/L	0.0004						
Sample ID: R09010302-001D	Sample Matrix Spike				Run: SUB-C114362				02/05/09 20:15
Boron	1.44	mg/L	0.10	106	70	130			
Iron	1.74	mg/L	0.043	104	70	130			
Sample ID: R09010302-001D	Sample Matrix Spike Duplicate				Run: SUB-C114362				02/05/09 20:20
Boron	1.49	mg/L	0.10	110	70	130	3	20	
Iron	1.77	mg/L	0.043	107	70	130	1.6	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.

MDC - Minimum detectable concentration

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Report Date: 03/17/09
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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R115011
Sample ID: MB-090220A	Method Blank				Run: SUB-C115011				02/20/09 12:54
Aluminum	ND	mg/L	0.003						
Sample ID: LFB-090220A	Laboratory Fortified Blank				Run: SUB-C115011				02/20/09 12:58
Aluminum	0.95	mg/L	0.10	95	85	125			
Sample ID: C09010797-014CMS2	Sample Matrix Spike				Run: SUB-C115011				02/20/09 13:10
Aluminum	1.92	mg/L	0.10	94	70	130			
Sample ID: C09010797-014CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C115011				02/20/09 13:14
Aluminum	1.92	mg/L	0.10	94	70	130	0.4	20	
Method: E200.8									Batch: C_21459
Sample ID: MB-21459	Method Blank				Run: SUB-C114869				02/18/09 23:47
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21459	Laboratory Control Sample				Run: SUB-C114869				02/18/09 23:51
Uranium	0.105	mg/L	0.00030	105	80	120			
Sample ID: R09010302-001I	Post Digestion Spike				Run: SUB-C114869				02/19/09 01:49
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R09010302-001I	Post Digestion Spike Duplicate				Run: SUB-C114869				02/19/09 01:53
Uranium	0.0127	mg/L	0.00030	101	70	130	0.5	20	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: LRB	Method Blank				Run: SUB-C114097				01/30/09 16:42
Arsenic	ND	mg/L	0.0003						
Barium	0.0001	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	9E-05	mg/L	4E-05						
Lead	5E-05	mg/L	2E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	6E-05	mg/L	2E-05						
Thorium 232	0.0001	mg/L	3E-05						
Uranium	0.0001	mg/L	8E-06						
Vanadium	0.0001	mg/L	9E-05						
Zinc	0.0004	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114097				01/30/09 16:49
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Cadmium	0.0521	mg/L	0.0010	104	85	115			
Chromium	0.0495	mg/L	0.0010	99	85	115			
Copper	0.0521	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Mercury	0.00528	mg/L	0.0010	106	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0524	mg/L	0.0010	105	85	115			
Silver	0.0212	mg/L	0.0010	106	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0514	mg/L	0.00030	103	85	115			
Vanadium	0.0489	mg/L	0.0010	98	85	115			
Zinc	0.0557	mg/L	0.0010	111	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114097				01/30/09 21:53
Barium	0.0636	mg/L	0.10	108	70	130			
Cadmium	0.0521	mg/L	0.010	104	70	130			
Chromium	0.0515	mg/L	0.050	103	70	130			
Copper	0.0497	mg/L	0.010	98	70	130			
Lead	0.0522	mg/L	0.050	104	70	130			
Manganese	0.213	mg/L	0.010	117	70	130			
Nickel	0.0504	mg/L	0.050	98	70	130			
Silver	0.0191	mg/L	0.010	96	70	130			
Thorium 232	0.0573	mg/L	0.0010	115	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114097
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114097				01/30/09 21:53
Uranium	0.0581	mg/L	0.00030	115	70	130			
Vanadium	0.0522	mg/L	0.10	104	70	130			
Zinc	0.0548	mg/L	0.010	102	70	130			
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114097				01/30/09 22:00
Barium	0.0631	mg/L	0.10	107	70	130		20	
Cadmium	0.0516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.0523	mg/L	0.050	104	70	130	1.5	20	
Copper	0.0493	mg/L	0.010	97	70	130	0.8	20	
Lead	0.0534	mg/L	0.050	107	70	130	2.3	20	
Manganese	0.218	mg/L	0.010	128	70	130	2.6	20	
Nickel	0.0500	mg/L	0.050	97	70	130		20	
Silver	0.0200	mg/L	0.010	100	70	130	4.3	20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	2.1	20	
Uranium	0.0591	mg/L	0.00030	117	70	130	1.7	20	
Vanadium	0.0532	mg/L	0.10	106	70	130		20	
Zinc	0.0545	mg/L	0.010	101	70	130	0.7	20	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114332
Sample ID: LRB	Method Blank				Run: SUB-C114332				02/04/09 12:58
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	4E-05						
Selenium	ND	mg/L	0.001						
Silver	ND	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114332				02/04/09 13:05
Antimony	0.0506	mg/L	0.0010	101	85	115			
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Barium	0.0509	mg/L	0.0010	102	85	115			
Beryllium	0.0522	mg/L	0.0010	104	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Chromium	0.0520	mg/L	0.0010	104	85	115			
Copper	0.0513	mg/L	0.0010	103	85	115			
Lead	0.0521	mg/L	0.0010	104	85	115			
Manganese	0.0517	mg/L	0.0010	103	85	115			
Molybdenum	0.0512	mg/L	0.0010	102	85	115			
Selenium	0.0509	mg/L	0.0014	102	85	115			
Silver	0.0211	mg/L	0.0010	106	85	115			
Strontium	0.0504	mg/L	0.0010	101	85	115			
Thallium	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0519	mg/L	0.00030	104	85	115			
Zinc	0.0542	mg/L	0.0010	108	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114332				02/04/09 20:46
Antimony	0.0549	mg/L	0.050	110	70	130			
Arsenic	0.0543	mg/L	0.0010	105	70	130			
Barium	0.0583	mg/L	0.10	99	70	130			
Beryllium	0.0509	mg/L	0.010	102	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Chromium	0.0493	mg/L	0.050	99	70	130			
Copper	0.0499	mg/L	0.010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R114332
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114332				02/04/09 20:46
Lead	0.0503	mg/L	0.050	101	70	130			
Manganese	0.194	mg/L	0.010	95	70	130			
Molybdenum	0.0531	mg/L	0.050	105	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Silver	0.0182	mg/L	0.010	91	70	130			
Strontium	2.74	mg/L	0.10		70	130			A
Thallium	0.0505	mg/L	0.10	101	70	130			
Uranium	0.0536	mg/L	0.00030	106	70	130			
Zinc	0.0553	mg/L	0.010	104	70	130			
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114332				02/04/09 20:53
Antimony	0.0559	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.0551	mg/L	0.0010	107	70	130	1.5	20	
Barium	0.0592	mg/L	0.10	101	70	130		20	
Beryllium	0.0498	mg/L	0.010	100	70	130	2.1	20	
Cadmium	0.0511	mg/L	0.010	102	70	130	2.6	20	
Chromium	0.0488	mg/L	0.050	98	70	130		20	
Copper	0.0493	mg/L	0.010	99	70	130	1.2	20	
Lead	0.0514	mg/L	0.050	103	70	130	2.1	20	
Manganese	0.191	mg/L	0.010	89	70	130	1.5	20	
Molybdenum	0.0544	mg/L	0.050	107	70	130	2.5	20	
Selenium	0.0524	mg/L	0.0010	105	70	130	3	20	
Silver	0.0189	mg/L	0.010	94	70	130	3.6	20	
Strontium	2.75	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0520	mg/L	0.10	104	70	130		20	
Uranium	0.0541	mg/L	0.00030	107	70	130	0.9	20	
Zinc	0.0546	mg/L	0.010	103	70	130	1.2	20	
Method: E200.8									Batch: C_R114631
Sample ID: LRB	Method Blank				Run: SUB-C114631				02/11/09 12:44
Nickel	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114631				02/11/09 12:50
Nickel	0.0454	mg/L	0.0010	91	85	115			
Sample ID: C09020274-004AMS4	Post Digestion Spike				Run: SUB-C114631				02/11/09 23:26
Nickel	0.0485	mg/L	0.040	93	70	130			
Sample ID: C09020274-004AMSD4	Post Digestion Spike Duplicate				Run: SUB-C114631				02/11/09 23:33
Nickel	0.0485	mg/L	0.040	93	70	130	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.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_37342
Sample ID: MB-37342	Method Blank				Run: SUB-B125166				02/20/09 13:51
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37342	Laboratory Fortified Blank				Run: SUB-B125166				02/20/09 13:53
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B09021443-001AMS	Sample Matrix Spike				Run: SUB-B125166				02/20/09 14:00
Mercury	0.0018	mg/L	0.00020	90	70	130			
Sample ID: B09021443-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-B125166				02/20/09 14:02
Mercury	0.0018	mg/L	0.00020	89	70	130	1.1	30	
Method: E245.1									Analytical Run: SUB-B125166
Sample ID: QCS	Initial Calibration Verification Standard								02/20/09 13:43
Mercury	0.0020	mg/L	0.00020	98	95	105			
Method: E300.0									Batch: R39252
Sample ID: LFB0901211057-3	Laboratory Fortified Blank				Run: DIONEX_090121A				01/21/09 19:10
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0901211057-4	Laboratory Fortified Blank				Run: DIONEX_090121A				01/21/09 19:27
Chloride	4.52	mg/L	0.50	90	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09010301-014AMS	Sample Matrix Spike				Run: DIONEX_090121A				01/22/09 09:08
Chloride	248	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1130	mg/L	3.4	84	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090121A				01/22/09 09:24
Chloride	239	mg/L	5.4	86	80	120	3.6	10	
Fluoride	98.7	mg/L	0.56	97	80	120	3.7	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.5	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	3.3	10	
Sulfate	1120	mg/L	3.4	82	80	120	1.3	10	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0604
Sample ID: MB-GrAB-0604	Method Blank				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	1	pCi/L							
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.5	pCi/L							
Gross Beta	-2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	1	pCi/L							
Sample ID: UNAT-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	130	pCi/L		97	70	130			
Sample ID: Cs137-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Beta	84	pCi/L		92	70	130			
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	120	pCi/L		85	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	120	pCi/L		88	70	130	3.6	15.7	
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:23
Gross Beta	79	pCi/L		87	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Beta	82	pCi/L		89	70	130	3	16.4	
Sample ID: R09010302-001H	Sample Duplicate				Run: SUB-C114642				02/07/09 01:11
Gross Alpha	30	pCi/L					33	40.7	
Gross Alpha precision (±)	5.3	pCi/L							
Gross Alpha MDC	5.3	pCi/L							
Gross Beta	12	pCi/L					18	73.5	
Gross Beta precision (±)	4.1	pCi/L							
Gross Beta MDC	6.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R114484
Sample ID: C09010797-014HDUP	Sample Duplicate				Run: SUB-C114484				02/04/09 14:00
Gross Gamma	980	pCi/L					2.9	30	
Gross Gamma precision (±)	160	pCi/L							
Sample ID: MB-R114484	Method Blank				Run: SUB-C114484				02/04/09 14:00
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R114484	Laboratory Control Sample				Run: SUB-C114484				02/04/09 14:00
Americium 241	25000	pCi/L	20	84	70	130			
Cesium 137	45000	pCi/L	20	106	70	130			
Cobalt 60	30000	pCi/L	20	103	70	130			
Method: E903.0									Batch: C_21459
Sample ID: C09010797-007IMS	Sample Matrix Spike				Run: SUB-C114901				02/18/09 13:41
Radium 226	19	pCi/L		98	70	130			
Sample ID: C09010797-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C114901				02/18/09 13:41
Radium 226	19	pCi/L		97	70	130	1	24	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C114901				02/18/09 15:51
Radium 226	74	pCi/L		102	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C114901				02/18/09 15:51
Radium 226	-0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							
Method: E903.0									Batch: C_RA226-3432
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114417				02/05/09 12:53
Radium 226	16	pCi/L		105	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114417				02/05/09 12:53
Radium 226	15	pCi/L		96	70	130	8	25.6	
Sample ID: MB-RA226-3432	Method Blank				Run: SUB-C114417				02/05/09 14:35
Radium 226	-0.1	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: LCS-RA226-3432	Laboratory Control Sample				Run: SUB-C114417				02/05/09 14:35
Radium 226	8.6	pCi/L		111	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_21459
Sample ID: R09010302-001I	Sample Matrix Spike				Run: SUB-C115509				03/01/09 14:58
Thorium 230	15	pCi/L		134	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: R09010302-001I	Sample Matrix Spike Duplicate				Run: SUB-C115509				03/01/09 14:58
Thorium 230	12	pCi/L		107	70	130	20	53	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115509				03/02/09 09:04
Thorium 230	5.2	pCi/L		113	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115509				03/02/09 09:04
Thorium 230	-0.07	pCi/L							U
Method: E907.0									Batch: C_RA-TH-ISO-0742
Sample ID: LCS-RA-TH-ISO-0742	Laboratory Control Sample				Run: SUB-C114515				02/08/09 11:55
Thorium 230	5.1	pCi/L	0.20	104	70	130			
Sample ID: R09010302-001H	Sample Matrix Spike				Run: SUB-C114515				02/08/09 11:55
Thorium 230	25	pCi/L	0.20	103	70	130			
Sample ID: R09010302-001H	Sample Matrix Spike Duplicate				Run: SUB-C114515				02/08/09 11:55
Thorium 230	27	pCi/L	0.20	113	70	130	7.9	43	
Sample ID: MB-RA-TH-ISO-0742	Method Blank				Run: SUB-C114515				02/09/09 08:45
Thorium 230	0.01	pCi/L							U
Method: E909.0M									Batch: C_R114833
Sample ID: C09010853-001DMS	Sample Matrix Spike				Run: SUB-C114833				02/03/09 10:43
Lead 210	94	pCi/L		78	70	130			
Sample ID: C09010853-002DMD	Sample Duplicate				Run: SUB-C114833				02/03/09 10:43
Lead 210	0.50	pCi/L					700	30	UR
Lead 210 precision (±)	5.1	pCi/L							
Lead 210 MDC	8.5	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R114833	Method Blank				Run: SUB-C114833				02/03/09 10:43
Lead 210	-0.7	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	4	pCi/L							
Sample ID: LCS-R114833	Laboratory Control Sample				Run: SUB-C114833				02/03/09 10:43
Lead 210	50	pCi/L		88	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R115907
Sample ID: MB-R115907	Method Blank				Run: SUB-C115907				03/10/09 13:35
Lead 210	-1	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115907	Laboratory Control Sample				Run: SUB-C115907				03/10/09 13:35
Lead 210	65	pCi/L		97	70	130			
- No MS or MSD available due to spiking error by analyst..									
Method: RMO-3008									Batch: C_PO210-0181
Sample ID: R09010302-001K	Sample Matrix Spike				Run: SUB-C114991				02/13/09 14:35
Polonium 210	13	pCi/L		79	70	130			
Sample ID: R09010302-001K	Sample Matrix Spike Duplicate				Run: SUB-C114991				02/17/09 10:36
Polonium 210	17	pCi/L		103	70	130	26	58.3	
Sample ID: LCS-PO210-0181	Laboratory Control Sample				Run: SUB-C114991				02/17/09 10:36
Polonium 210	14	pCi/L		83	70	130			
Sample ID: MB-PO210-0181	Method Blank				Run: SUB-C114991				02/17/09 10:36
Polonium 210 MDC	0.7	pCi/L							
Polonium 210	-0.04	pCi/L							U
Polonium 210 precision (±)	0.2	pCi/L							
Method: RMO-3008									Batch: C_R115005
Sample ID: C09020173-003FMS	Sample Matrix Spike				Run: SUB-C115005				02/19/09 12:18
Polonium 210	21	pCi/L		74	70	130			
Sample ID: C09020173-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C115005				02/19/09 12:18
Polonium 210	32	pCi/L		113	70	130	39	53.2	
Sample ID: LCS-21458	Laboratory Control Sample				Run: SUB-C115005				02/19/09 09:56
Polonium 210	87	pCi/L		111	70	130			
Sample ID: MB-21458	Method Blank				Run: SUB-C115005				02/19/09 09:56
Polonium 210 MDC	2	pCi/L							
Polonium 210	0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Sample R09010302-001A not reported to LIMS

SAMPLE ID: **R09010302-001A** 3/16/2009

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**16**	0.45
Ca	**73**	3.62	SO4	**828**	17.23
Mg	**<1**	0.01	T. Alkalinity	**148**	2.96
K	**9**	0.24	HCO3	181	
Na	**370**	16.11	CO3	<1	
Al	**<1**	0.01			
Fe	**<1**	0.00			
Mn	**<1**	0.00			
Hardness (as CaCO3)	182		OH		
Hardness, grains/gal.	10.6		NO3	**<0.1**	0.00
NH4+	**1.6**	0.11	PO4		
Si	**4.2**		F	**0.3**	0.02
			CN		
			Br	**0.3**	0.00
	Total Cations	20.11		Total Anions	20.66

BALANCE, (± 5%) -1.35
BALANCE, "sigma" 1.29

	Measured	Calculated
Sample pH	**11.4**	
Conductivity (umho/cm)	**2420**	1770
TDS	**1410**	1400
TDS Ratio		1.01
Resistivity (RW - ohm-m)		4.13
Estimated Ionic Strength (from TDS)		0.0354

Salinity	1.25
Cl as NaCl	26
Carbonate Hardness	148
Non-carbonate Hardness	34
Free CO2	
Total CO2	
SAR	11.94
Langlier Saturation Index	2.5
Ryznar Index	6.34
Aggressive Index	15.83
Temp	20

Moderately hard water.

SAMPLE ID: R09010302-001A

BALANCE, (± 5%) -1.35

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env.	Project Name, PWS, Permit, Etc. Pew Burdock / Powertech	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: RESPEC	Contact Name: Phone/Fax:	Email:	Sampler: (Please Print) Allan Scott
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI 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 Air W Water S Soils/Solids V Vegetation B Bioassay O Other

ANALYSIS REQUESTED

as Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: GW703

Shipped by:

Cooler ID(s):

Receipt Temp 2.4 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	GW 680	1-20-09	15:25	Water
2	GW 689	1-20-09	15:35	"
3	Daniels Well	1-20-09	15:05	"
4	GW 696	1-20-09	16:55	"
5	GW 694	1-20-09	17:00	"
6				
7				
8				
9				
10				

LABORATORY USE ONLY
L090103-001

Custody Record MUST be Signed

Relinquished by (print): Allan Scott	Date/Time: 1-21-09 10:37	Signature: Allan Scott	Received by (print):	Date/Time:	Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Steve Froiland	Date/Time: 1-21-09 1035	Signature: Steve Froiland

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, and links.

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ANALYTICAL SUMMARY REPORT

April 14, 2009

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

Workorder No.: R09020293 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 15 samples for RESPEC Inc on 2/25/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09020293-001	DewBurd BLK01	02/24/09 18:00	02/25/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

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ANALYTICAL SUMMARY REPORT

R09020293-002	DewBurd GW704	02/24/09 9:40	02/25/09	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R09020293-003	DewBurd GW3026	02/24/09 11:35	02/25/09	Aqueous	Same As Above
R09020293-004	DewBurd GW698	02/24/09 12:10	02/25/09	Aqueous	Same As Above
R09020293-005	DewBurd GW698	02/24/09 12:15	02/25/09	Aqueous	Same As Above
R09020293-006	DewBurd GW688	02/24/09 13:23	02/25/09	Aqueous	Same As Above
R09020293-007	DewBurd GW680	02/24/09 13:35	02/25/09	Aqueous	Same As Above
R09020293-008	DewBurd GW622	02/24/09 15:31	02/25/09	Aqueous	Same As Above
R09020293-009	DewBurd GW615	02/24/09 15:45	02/25/09	Aqueous	Same As Above
R09020293-010	DewBurd GW689	02/24/09 16:04	02/25/09	Aqueous	Same As Above
R09020293-011	DewBurd GW681	02/24/09 16:18	02/25/09	Aqueous	Same As Above
R09020293-012	DewBurd GW697	02/24/09 16:45	02/25/09	Aqueous	Same As Above
R09020293-013	DewBurd GW695	02/24/09 16:56	02/25/09	Aqueous	Same As Above
R09020293-014	DewBurd GW694	02/24/09 17:15	02/25/09	Aqueous	Same As Above
R09020293-015	DewBurd GW696	02/24/09 17:31	02/25/09	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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-001
Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
Collection Date: 02/24/09 18:00
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Calcium	ND	mg/L	D	1		1	E200.7	03/06/09 21:14/eli-c
Chloride	ND	mg/L		1		1	E300.0	02/25/09 23:17/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Magnesium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 16:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Potassium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Sodium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Sulfate	ND	mg/L		1		1	E300.0	02/25/09 23:17/jmh
Silica	ND	mg/L		0.2		1	E200.7	03/06/09 21:14/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	02/27/09 12:41/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	03/02/09 11:00/jmh
pH	5.58	s.u.		0.01		1	A4500-H B	02/27/09 10:47/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	10	mg/L		5		1	A2540 C	03/02/09 09:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 21:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:38/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/06/09 21:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	03/04/09 19:38/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:35/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 19:38/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-001
Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
Collection Date: 02/24/09 18:00
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 19:38/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 02:55/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 13:45/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.6	pCi/L	U			1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha MDC	1.1	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta	-2	pCi/L	U			1	E900.0	03/11/09 22:56/eli-cə
Gross Beta precision (±)	1.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta MDC	2.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Lead 210	-0.4	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.054	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.43	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	0.2	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.06	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.3	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.66	pCi/L				1	E912.0	03/23/09 07:21/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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-001
Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
Collection Date: 02/24/09 18:00
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	141	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	64.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 13:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Barium	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 13:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 13:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 13:54/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/06/09 21:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	03/06/09 02:56/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:03/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 13:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 13:54/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 13:54/eli-c
Strontium	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	03/09/09 13:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 13:54/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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Calcium	55	mg/L	D	6		5	E200.7	03/06/09 21:37/eli-c
Chloride	10	mg/L		1		1	E300.0	02/25/09 23:50/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Magnesium	18.6	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	02/27/09 16:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Potassium	9.3	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Sodium	205	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Sulfate	487	mg/L	D	3		50	E300.0	02/25/09 23:34/jmh
Silica	7.1	mg/L		0.2		5	E200.7	03/06/09 21:37/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	02/27/09 12:42/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	02/27/09 10:49/tb
Sodium Adsorption Ratio (SAR)	6.1	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	03/02/09 09:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 21:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:45/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:45/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 21:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 19:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:45/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:42/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 19:45/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 19:45/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 02:59/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 13:53/eli-cs
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cs
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.5	pCi/L	U			1	E900.0	03/11/09 22:56/eli-cs
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Alpha MDC	4.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta	8.8	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta precision (±)	3.5	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Lead 210	-1	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.15	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.55	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	1.6	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.04	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.068	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.72	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions:
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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

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.03	pCi/L	U			1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.007	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	200	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	69.5	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 14:01/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/09/09 14:01/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 21:41/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 14:01/eli-c
Boron	ND	mg/L		0.1		1	E200.8	03/09/09 14:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 14:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 14:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 14:01/eli-c
Iron	1.55	mg/L		0.03		1	E200.8	03/09/09 14:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 14:01/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	03/06/09 03:29/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:10/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 14:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 14:01/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 14:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 14:01/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	03/09/09 14:01/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 14:01/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/09/09 14:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 14:01/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.29	%				1	A1030 E	04/14/09 00:00/ADM
Anions	13.8	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	13.4	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	905	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
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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: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Calcium	334	mg/L	D	6		5	E200.7	03/06/09 21:46/eli-c
Chloride	16	mg/L		1		1	E300.0	02/26/09 00:56/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Magnesium	108	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Potassium	17.5	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Sodium	147	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Sulfate	1390	mg/L	D	3		50	E300.0	02/26/09 00:06/jmh
Silica	8.1	mg/L		0.2		5	E200.7	03/06/09 21:46/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	02/27/09 12:44/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	03/02/09 11:00/jmh
pH	6.63	s.u.		0.01		1	A4500-H B	02/27/09 10:50/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	03/02/09 09:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	03/06/09 21:46/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:52/eli-c
Iron	2.98	mg/L		0.03		5	E200.7	03/06/09 21:46/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Manganese	1.10	mg/L		0.01		1	E200.8	03/04/09 19:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:44/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Uranium	0.0022	mg/L		0.0003		1	E200.8	03/04/09 19:52/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 19:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:20/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 13:55/eli-cε
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cε
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.4	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Gross Alpha precision (±)	6.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Gross Alpha MDC	9.2	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Gross Beta	18.1	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Gross Beta precision (±)	6.0	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Gross Beta MDC	9.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cε
Lead 210	0.4	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.65	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	2.9	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.9	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.098	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.68	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions:
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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: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	0.1	pCi/L	U			1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.07	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	484	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	72.4	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 14:07/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	03/09/09 14:07/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 21:50/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 14:07/eli-c
Boron	0.2	mg/L		0.1		1	E200.8	03/09/09 14:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 14:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 14:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 14:07/eli-c
Iron	15.1	mg/L		0.03		1	E200.8	03/09/09 14:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 14:07/eli-c
Manganese	1.35	mg/L		0.01		1	E200.8	03/06/09 03:35/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 14:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 14:07/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 14:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 14:07/eli-c
Strontium	5.8	mg/L		0.1		1	E200.8	03/09/09 14:07/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 14:07/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	03/09/09 14:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 14:07/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.590	%				1	A1030 E	04/14/09 00:00/ADM
Anions	33.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	32.6	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2140	mg/L				1	A1030 E	04/14/09 00:00/ADM

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MDC - Minimum detectable concentration
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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: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-004
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:10
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	110	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Bicarbonate as HCO3	134	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Calcium	357	mg/L	D	6		5	E200.7	03/06/09 21:54/eli-c
Chloride	9	mg/L		1		1	E300.0	02/26/09 02:01/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Magnesium	131	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Potassium	15.5	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Sodium	86.5	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Sulfate	1240	mg/L	D	3		50	E300.0	02/26/09 01:12/jmh
Silica	10.2	mg/L		0.2		5	E200.7	03/06/09 21:54/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2360	umhos/cm		5.0		1	A2510 B	02/27/09 12:46/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	03/02/09 11:00/jmh
pH	6.82	s.u.		0.01		1	A4500-H B	02/27/09 10:54/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	03/02/09 09:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 21:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
Iron	2.03	mg/L		0.03		5	E200.7	03/06/09 21:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Manganese	2.45	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:47/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Uranium	0.108	mg/L		0.0003		1	E200.8	03/04/09 19:59/eli-c

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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-004
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:10
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
METALS - SUSPENDED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	03/10/09 03:24/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:00/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1270	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	35.4	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	9.5	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	357	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	10.4	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	9.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.40	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.51	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	355	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.1	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	420	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	56	pCi/L				1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.78	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.62	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.61	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions:
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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: R09020293-004
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:10
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	11.0	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	1	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	38400	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	279	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:18/eli-c
Arsenic	0.003	mg/L	L	0.002		1	E200.8	03/10/09 04:18/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:18/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 22:35/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 16:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:18/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:18/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:18/eli-c
Iron	4.37	mg/L		0.03		1	E200.8	03/10/09 04:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 04:18/eli-c
Manganese	2.7	mg/L	D	0.1		5	E200.7	03/10/09 16:41/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:15/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 22:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:18/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	03/10/09 04:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:18/eli-c
Strontium	4.7	mg/L		0.1		1	E200.8	03/10/09 04:18/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:18/eli-c
Uranium	0.113	mg/L		0.0003		1	E200.8	03/10/09 04:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/10/09 04:18/eli-c
DATA QUALITY								
A/C Balance (± 5)	7.55	%				1	A1030 E	04/14/09 00:00/ADM
Anions	28.4	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	33.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	1940	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
L - Lowest available reporting limit for the analytical method used.
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: R09020293-004
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:10
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.15					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	03/03/09 14:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:28/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	03/03/09 14:28/mb
Calcium	348	mg/L	D	6		5	E200.7	03/06/09 21:59/eli-c
Chloride	9	mg/L		1		1	E300.0	02/26/09 02:34/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 02:34/jmh
Magnesium	130	mg/L		0.5		5	E200.7	03/06/09 21:59/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:34/jmh
Potassium	15.5	mg/L		0.5		5	E200.7	03/06/09 21:59/eli-c
Sodium	85.5	mg/L		0.5		5	E200.7	03/06/09 21:59/eli-c
Sulfate	1380	mg/L	D	3		50	E300.0	02/26/09 02:18/jmh
Silica	10	mg/L		0.2		5	E200.7	03/06/09 21:59/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2390	umhos/cm		5.0		1	A2510 B	02/27/09 12:47/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	03/02/09 11:00/jmh
pH	6.78	s.u.		0.01		1	A4500-H B	02/27/09 11:00/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	03/02/09 09:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 20:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:05/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 21:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:05/eli-c
Iron	1.16	mg/L		0.03		5	E200.7	03/06/09 21:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:05/eli-c
Manganese	2.42	mg/L		0.01		1	E200.8	03/04/09 20:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:49/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:05/eli-c
Uranium	0.104	mg/L		0.0003		1	E200.8	03/04/09 20:05/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 20:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 20:05/eli-c
METALS - SUSPENDED								
Uranium	0.0047	mg/L		0.0003		1	E200.8	03/10/09 03:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:02/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1490	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha precision (±)	38.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha MDC	9.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta	373	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta precision (±)	10.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta MDC	9.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Lead 210	2.1	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.068	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.51	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	349	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.0	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.05	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	440	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	56	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	1.1	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.82	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.91	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions:
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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: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	12.5	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	0.4	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	42600	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	293	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:25/eli-c
Arsenic	0.003	mg/L	L	0.002		1	E200.8	03/10/09 04:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:25/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 22:41/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 16:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:25/eli-c
Iron	4.28	mg/L		0.03		1	E200.8	03/10/09 04:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 04:25/eli-c
Manganese	2.6	mg/L	D	0.1		5	E200.7	03/10/09 16:45/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:22/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 22:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:25/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 04:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:25/eli-c
Strontium	4.7	mg/L		0.1		1	E200.8	03/10/09 04:25/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:25/eli-c
Uranium	0.110	mg/L		0.0003		1	E200.8	03/10/09 04:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/10/09 04:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.91	%				1	A1030 E	04/14/09 00:00/ADM
Anions	31.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	32.5	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2060	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
L - Lowest available reporting limit for the analytical method used.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Calcium	52	mg/L	D	6		5	E200.7	03/06/09 22:03/eli-c
Chloride	11	mg/L		1		1	E300.0	02/26/09 03:07/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Magnesium	21.4	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Potassium	12.1	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Sodium	181	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Sulfate	460	mg/L	D	3		50	E300.0	02/26/09 02:51/jmh
Silica	7.5	mg/L		0.2		5	E200.7	03/06/09 22:03/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1200	umhos/cm		5.0		1	A2510 B	02/27/09 12:49/tb
Oxidation-Reduction Potential	120	mV				1	A2580 B	03/02/09 11:00/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	02/27/09 11:01/tb
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	830	mg/L		5		1	A2540 C	03/02/09 09:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
Iron	0.03	mg/L		0.03		5	E200.7	03/06/09 22:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:51/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 20:12/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:04/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	28.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha MDC	4.2	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta	19.2	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta precision (±)	3.2	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta MDC	4.8	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Lead 210	-1	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	3.2	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	5.4	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.45	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.43	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.41	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	7.9	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	-0.054	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.73	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	0.2	pCi/L	U			1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	218	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	67.9	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:31/eli-c
Arsenic	0.003	mg/L	L	0.002		1	E200.8	03/10/09 04:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:31/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 23:15/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 16:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:31/eli-c
Iron	0.44	mg/L		0.03		1	E200.8	03/10/09 04:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 04:31/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	03/16/09 23:15/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 23:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:31/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 04:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:31/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	03/10/09 04:31/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:31/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	03/10/09 04:31/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	03/10/09 04:31/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.71	%				1	A1030 E	04/14/09 00:00/ADM
Anions	13.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	12.6	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	858	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
L - Lowest available reporting limit for the analytical method used.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-007
Client Sample ID: DewBurd GW680

Report Date: 04/14/09
Collection Date: 02/24/09 13:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	250	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Bicarbonate as HCO3	305	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Calcium	365	mg/L	D	6		5	E200.7	03/06/09 22:30/eli-c
Chloride	13	mg/L		1		1	E300.0	02/26/09 04:13/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Magnesium	121	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Potassium	19.2	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Sodium	145	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Sulfate	1400	mg/L	D	3		50	E300.0	02/26/09 03:23/jmh
Silica	8.6	mg/L		0.2		5	E200.7	03/06/09 22:30/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	02/27/09 12:50/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.16	s.u.		0.01		1	A4500-H B	02/27/09 11:03/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	03/02/09 09:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	03/06/09 22:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:19/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	03/04/09 20:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:58/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Uranium	0.0185	mg/L		0.0003		1	E200.8	03/04/09 20:19/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-007
Client Sample ID: DewBurd GW680

Report Date: 04/14/09
Collection Date: 02/24/09 13:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 20:19/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:11/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5140	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha precision (±)	73.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Alpha MDC	10.4	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta	1210	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta precision (±)	17.1	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Gross Beta MDC	9.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cə
Lead 210	10.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.069	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.45	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	1330	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	6.1	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.009	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	80	pCi/L				1	E901.1	03/06/09 09:10/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.1	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.64	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.53	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.49	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Radium 226	6.4	pCi/L				1	E903.0	03/17/09 13:12/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.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-007
Client Sample ID: DewBurd GW680

Report Date: 04/14/09
Collection Date: 02/24/09 13:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	56800	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	334	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 14:14/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/09/09 14:14/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 22:39/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 14:14/eli-c
Boron	0.1	mg/L		0.1		1	E200.8	03/09/09 14:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 14:14/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 14:14/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 14:14/eli-c
Iron	0.24	mg/L		0.03		1	E200.8	03/09/09 14:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 14:14/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	03/06/09 03:42/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:27/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 14:14/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 14:14/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 14:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 14:14/eli-c
Strontium	7.2	mg/L		0.1		1	E200.8	03/09/09 14:14/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 14:14/eli-c
Uranium	0.0206	mg/L		0.0003		1	E200.8	03/09/09 14:14/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 14:14/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.760	%				1	A1030 E	04/14/09 00:00/ADM
Anions	34.4	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	35.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2230	mg/L				1	A1030 E	04/14/09 00:00/ADM
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	04/14/09 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.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-008
Client Sample ID: DewBurd GW622

Report Date: 04/14/09
Collection Date: 02/24/09 15:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Calcium	85	mg/L	D	6		5	E200.7	03/06/09 22:43/eli-c
Chloride	10	mg/L		1		1	E300.0	02/26/09 05:18/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Magnesium	30.5	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:35/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Potassium	10.8	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Sodium	167	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Sulfate	495	mg/L	D	3		50	E300.0	02/26/09 04:29/jmh
Silica	7.3	mg/L		0.2		5	E200.7	03/06/09 22:43/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B	02/27/09 12:55/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.58	s.u.		0.01		1	A4500-H B	02/27/09 11:04/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	03/02/09 10:00/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:53/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	03/04/09 20:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:00/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Uranium	0.0053	mg/L		0.0003		1	E200.8	03/04/09 20:53/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-008
Client Sample ID: DewBurd GW622

Report Date: 04/14/09
Collection Date: 02/24/09 15:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 20:53/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:14/eli-cs
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cs
RADIONUCLIDES - DISSOLVED								
Gross Alpha	44.3	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Alpha MDC	4.6	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta	19.7	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta precision (±)	3.2	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Gross Beta MDC	4.8	pCi/L				1	E900.0	03/11/09 22:56/eli-cs
Lead 210	0.7	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.16	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	7.9	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.01	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.1	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.30	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.47	pCi/L				1	E912.0	03/23/09 07:21/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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-008
Client Sample ID: DewBurd GW622

Report Date: 04/14/09
Collection Date: 02/24/09 15:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.09	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	81.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:38/eli-c
Arsenic	0.004	mg/L	L	0.002		1	E200.8	03/10/09 04:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:38/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 23:22/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 16:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:38/eli-c
Iron	1.40	mg/L		0.03		1	E200.8	03/10/09 04:38/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Manganese	0.2	mg/L	D	0.1		5	E200.7	03/10/09 16:54/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:29/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 23:22/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:38/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:38/eli-c
Strontium	1.6	mg/L		0.1		1	E200.8	03/10/09 04:38/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Uranium	0.0051	mg/L		0.0003		1	E200.8	03/10/09 04:38/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	03/10/09 04:38/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.620	%				1	A1030 E	04/14/09 00:00/ADM
Anions	14.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.3	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	925	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
L - Lowest available reporting limit for the analytical method used.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-008
Client Sample ID: DewBurd GW622

Report Date: 04/14/09
Collection Date: 02/24/09 15:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	04/14/09 00:00/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Calcium	69	mg/L	D	1		1	E200.7	03/06/09 22:48/eli-c
Chloride	5	mg/L		1		1	E300.0	02/26/09 05:51/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Magnesium	21.0	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Potassium	8.4	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Sodium	124	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Sulfate	398	mg/L	D	3		50	E300.0	02/26/09 05:35/jmh
Silica	7.8	mg/L		0.2		1	E200.7	03/06/09 22:48/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	971	umhos/cm		5.0		1	A2510 B	02/27/09 12:57/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.23	s.u.		0.01		1	A4500-H B	02/27/09 11:06/tb
Sodium Adsorption Ratio (SAR)	3.3	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	03/02/09 10:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 22:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	03/06/09 22:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:03/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	03/04/09 21:00/eli-c

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.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:44/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:16/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	14.8	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	3.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	10.5	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	0.9	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	2.3	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.002	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.15	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/23/09 07:21/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

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	0.06	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.07	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1590	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	83.6	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 14:20/eli-c
Arsenic	0.022	mg/L		0.001		1	E200.8	03/09/09 14:20/eli-c
Barium	ND	mg/L		0.1		1	E200.7	03/06/09 22:52/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 14:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 22:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 14:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 14:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 14:20/eli-c
Iron	1.31	mg/L		0.03		1	E200.7	03/06/09 22:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 14:20/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	03/06/09 03:48/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:10/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 14:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 14:20/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 14:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 14:20/eli-c
Strontium	1.3	mg/L		0.1		1	E200.7	03/06/09 22:52/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 14:20/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	03/09/09 14:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 14:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.02	%				1	A1030 E	04/14/09 00:00/ADM
Anions	11.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	10.8	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	729	mg/L				1	A1030 E	04/14/09 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.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Calcium	45	mg/L	D	6		5	E200.7	03/06/09 22:57/eli-c
Chloride	5	mg/L		1		1	E300.0	02/26/09 06:24/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Magnesium	14.0	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Potassium	8.5	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Sodium	158	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Sulfate	380	mg/L	D	3		50	E300.0	02/26/09 06:08/jmh
Silica	8.3	mg/L		0.2		5	E200.7	03/06/09 22:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1040	umhos/cm		5.0		1	A2510 B	02/27/09 13:02/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	02/27/09 11:07/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	690	mg/L		5		1	A2540 C	03/02/09 10:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:05/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Uranium	0.0030	mg/L		0.0003		1	E200.8	03/04/09 21:27/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:18/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.9	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	3.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	3.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	12.0	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	4.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	0.5	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.44	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	1.0	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.65	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	5.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.001	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.35	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.56	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.2	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1810	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	86.0	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:44/eli-c
Arsenic	0.003	mg/L	L	0.002		1	E200.8	03/10/09 04:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:44/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 23:29/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/10/09 16:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:44/eli-c
Iron	0.60	mg/L		0.03		1	E200.8	03/10/09 04:44/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	03/10/09 04:44/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/16/09 23:29/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:17/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 23:29/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:44/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 04:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:44/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	03/10/09 04:44/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:44/eli-c
Uranium	0.0032	mg/L		0.0003		1	E200.8	03/10/09 04:44/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	03/10/09 04:44/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.77	%				1	A1030 E	04/14/09 00:00/ADM
Anions	11.1	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	10.5	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	722	mg/L				1	A1030 E	04/14/09 00:00/ADM

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.
L - Lowest available reporting limit for the analytical methoc used.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-011
Client Sample ID: DewBurd GW681

Report Date: 04/14/09
Collection Date: 02/24/09 16:18
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Calcium	63	mg/L	D	6		5	E200.7	03/06/09 23:01/eli-c
Chloride	13	mg/L		1		1	E300.0	02/26/09 07:30/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Magnesium	24.4	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:41/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Potassium	10.3	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Sodium	200	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Sulfate	479	mg/L	D	3		50	E300.0	02/26/09 06:40/jmh
Silica	7.9	mg/L		0.2		5	E200.7	03/06/09 23:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	02/27/09 13:03/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	02/27/09 11:10/tb
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	03/02/09 10:03/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:12/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Uranium	0.0092	mg/L		0.0003		1	E200.8	03/04/09 21:33/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-011
Client Sample ID: DewBurd GW681

Report Date: 04/14/09
Collection Date: 02/24/09 16:18
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:25/eli-cs
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cs
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1460	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Gross Alpha precision (±)	26.4	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Gross Alpha MDC	4.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Gross Beta	402	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Gross Beta precision (±)	7.9	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cs
Lead 210	37.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	5.4	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.28	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	336	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.0	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.001	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	6000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	350	pCi/L				1	E901.1	03/06/09 09:10/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	25.9	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	2.3	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.62	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Radium 226	1.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c

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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: R09020293-011
Client Sample ID: DewBurd GW681

Report Date: 04/14/09
Collection Date: 02/24/09 16:18
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	389000	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	851	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 05:49/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/10/09 05:49/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 23:06/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:10/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 19:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 05:49/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 05:49/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 05:49/eli-c
Iron	0.04	mg/L		0.03		1	E200.8	03/10/09 05:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 05:49/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/06/09 03:54/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:19/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 05:49/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 05:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 05:49/eli-c
Strontium	1.2	mg/L		0.1		1	E200.8	03/10/09 05:49/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 05:49/eli-c
Uranium	0.0086	mg/L		0.0003		1	E200.8	03/10/09 05:49/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/10/09 05:49/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.990	%				1	A1030 E	04/14/09 00:00/ADM
Anions	13.9	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.1	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	916	mg/L				1	A1030 E	04/14/09 00:00/ADM
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Calcium	52	mg/L	D	6		5	E200.7	03/06/09 23:11/eli-c
Chloride	8	mg/L		1		1	E300.0	02/26/09 08:35/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Magnesium	16.8	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Potassium	9.2	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Sodium	201	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Sulfate	436	mg/L	D	3		50	E300.0	02/26/09 07:46/jmh
Silica	8.0	mg/L		0.2		5	E200.7	03/06/09 23:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1210	umhos/cm		5.0		1	A2510 B	02/27/09 13:05/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	02/27/09 11:11/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	03/02/09 10:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:40/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/04/09 21:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:40/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:14/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 21:40/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:40/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 04:13/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:27/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.2	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Alpha MDC	4.3	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta	11.0	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta MDC	4.8	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Lead 210	1.0	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.034	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.62	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	5.6	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	-0.019	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.55	pCi/L				1	E912.0	03/23/09 07:21/eli-c

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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.05	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	236	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.5	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 05:56/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/10/09 05:56/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 23:29/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:16/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 19:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 05:56/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 05:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 05:56/eli-c
Iron	0.09	mg/L		0.03		1	E200.8	03/10/09 05:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 05:56/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/06/09 04:01/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:21/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 05:56/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 05:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 05:56/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	03/10/09 05:56/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 05:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 05:56/eli-c
Zinc	0.03	mg/L		0.01		1	E200.8	03/10/09 05:56/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.29	%				1	A1030 E	04/14/09 00:00/ADM
Anions	12.6	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	13.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	845	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Calcium	50	mg/L	D	6		5	E200.7	03/06/09 23:42/eli-c
Chloride	12	mg/L		1		1	E300.0	02/26/09 09:08/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Magnesium	17.6	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Potassium	9.8	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Sodium	225	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Sulfate	494	mg/L	D	3		50	E300.0	02/26/09 08:52/jmh
Silica	7.6	mg/L		0.2		5	E200.7	03/06/09 23:42/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1350	umhos/cm		5.0		1	A2510 B	02/27/09 13:11/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.86	s.u.		0.01		1	A4500-H B	02/27/09 11:12/tb
Sodium Adsorption Ratio (SAR)	7.0	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	03/02/09 10:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:16/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Uranium	0.0028	mg/L		0.0003		1	E200.8	03/04/09 21:47/eli-c

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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 04:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:30/eli-cə
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cə
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Alpha MDC	4.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta	12.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cə
Lead 210	0.9	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.16	pCi/L	U			1	E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.74	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Radium 226	4.7	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.02	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1200	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.1	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.25	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.83	pCi/L				1	E912.0	03/23/09 07:21/eli-c

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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.1	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1600	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	83.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 06:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 23:47/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:23/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 19:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 06:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 06:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 06:02/eli-c
Iron	0.23	mg/L		0.03		1	E200.8	03/10/09 06:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/06/09 04:07/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 06:02/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 06:02/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	03/10/09 06:02/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	03/10/09 06:02/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	03/10/09 06:02/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.610	%				1	A1030 E	04/14/09 00:00/ADM
Anions	14.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	937	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
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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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	04/14/09 00:00/ADM

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: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Calcium	99	mg/L	D	6		5	E200.7	03/06/09 23:51/eli-c
Chloride	9	mg/L		1		1	E300.0	02/26/09 09:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Magnesium	35.5	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:46/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Potassium	13.6	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Sodium	171	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Sulfate	518	mg/L	D	3		50	E300.0	02/26/09 09:25/jmh
Silica	8.7	mg/L		0.2		5	E200.7	03/06/09 23:51/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	02/27/09 13:13/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.55	s.u.		0.01		1	A4500-H B	02/27/09 11:14/tb
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	03/02/09 10:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 22:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 22:21/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	03/04/09 22:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 22:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:23/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	03/04/09 22:21/eli-c

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 22:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 04:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:36/eli-cε
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-cε
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.3	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Gross Alpha MDC	4.9	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Gross Beta	10.9	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-cε
Lead 210	1.3	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	-0.031	pCi/L	U			1	E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.52	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Radium 226	2.2	pCi/L				1	E903.0	03/11/09 17:31/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/11/09 17:31/eli-c
Thorium 230	0.05	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1600	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	230	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.31	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.50	pCi/L				1	E912.0	03/23/09 07:21/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.1	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	-0.09	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	235	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.3	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 06:09/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/10/09 06:09/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 23:56/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:43/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 20:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 06:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 06:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 06:09/eli-c
Iron	0.11	mg/L		0.03		1	E200.8	03/10/09 06:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 06:09/eli-c
Manganese	0.17	mg/L		0.01		1	E200.8	03/06/09 04:14/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:26/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 06:09/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 06:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 06:09/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	03/10/09 06:09/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 06:09/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	03/10/09 06:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/10/09 06:09/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.67	%				1	A1030 E	04/14/09 00:00/ADM
Anions	15.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	15.7	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	994	mg/L				1	A1030 E	04/14/09 00:00/ADM

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Calcium	31	mg/L	D	6		5	E200.7	03/07/09 00:00/eli-c
Chloride	12	mg/L		1		1	E300.0	02/26/09 10:30/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Magnesium	10.7	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:47/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Potassium	10.1	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Sodium	273	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Sulfate	470	mg/L		1		10	E300.0	02/27/09 01:45/jmh
Silica	8.8	mg/L		0.2		5	E200.7	03/07/09 00:00/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	02/27/09 13:14/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	8.08	s.u.		0.01		1	A4500-H B	02/27/09 11:16/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	03/02/09 10:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/07/09 00:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 22:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 22:28/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/07/09 00:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	03/04/09 22:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 22:28/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:25/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 22:28/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
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D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 22:28/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 04:26/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/26/09 15:17/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.3	pCi/L	U			1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha MDC	4.8	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta	2.0	pCi/L	U			1	E900.0	03/12/09 11:11/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Lead 210	-0.3	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	-0.094	pCi/L	U			1	E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.72	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Radium 226	1.3	pCi/L				1	E903.0	03/11/09 17:31/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/11/09 17:31/eli-c
Thorium 230	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	03/06/09 09:10/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - SUSPENDED								
Lead 210	0.8	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.045	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.80	pCi/L				1	E912.0	03/23/09 07:21/eli-c

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	-0.04	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	234	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 06:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/10/09 06:15/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/07/09 00:05/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:50/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 20:06/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 06:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 06:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 06:15/eli-c
Iron	0.10	mg/L		0.03		1	E200.8	03/10/09 06:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 06:15/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	03/06/09 04:20/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:33/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 06:15/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 06:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 06:15/eli-c
Strontium	0.8	mg/L		0.1		1	E200.8	03/10/09 06:15/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 06:15/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 06:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/10/09 06:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.91	%				1	A1030 E	04/14/09 00:00/ADM
Anions	13.8	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.6	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	941	mg/L				1	A1030 E	04/14/09 00:00/ADM

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.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

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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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 090303A-ALK-SEL-W	
Sample ID: LCS1_090303A	Laboratory Control Sample				Run: PH_COND1-R_090303A			03/03/09 13:13	
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_090303A	Method Blank				Run: PH_COND1-R_090303A			03/03/09 13:15	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R09020281-005BMS	Sample Matrix Spike				Run: PH_COND1-R_090303A			03/03/09 13:58	
Alkalinity, Total as CaCO3	356	mg/L	5.0	102	80	120			
Sample ID: R09020281-005BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090303A			03/03/09 14:02	
Alkalinity, Total as CaCO3	366	mg/L	5.0	111	80	120	2.8	10	
Sample ID: R09020293-009AMS	Sample Matrix Spike				Run: PH_COND1-R_090303A			03/03/09 14:41	
Alkalinity, Total as CaCO3	240	mg/L	5.0	96	80	120			
Sample ID: R09020293-009AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090303A			03/03/09 14:43	
Alkalinity, Total as CaCO3	250	mg/L	5.0	106	80	120	4.1	10	
Sample ID: R09020294-004AMS	Sample Matrix Spike				Run: PH_COND1-R_090303A			03/03/09 15:26	
Alkalinity, Total as CaCO3	118	mg/L	5.0	89	80	120			
Sample ID: R09020294-004AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_090303A			03/03/09 15:31	
Alkalinity, Total as CaCO3	118	mg/L	5.0	89	80	120		10	
Method: A2510 B								Batch: 090227_1_COND-PROBE-W	
Sample ID: LCS_COND-1_090227	Laboratory Control Sample				Run: PH_COND2-R_090227A			02/27/09 12:30	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_090227	Laboratory Control Sample				Run: PH_COND2-R_090227A			02/27/09 12:31	
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_090227	Laboratory Control Sample				Run: PH_COND2-R_090227A			02/27/09 12:33	
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_090227	Method Blank				Run: PH_COND2-R_090227A			02/27/09 12:37	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R09020293-009ADUP	Sample Duplicate				Run: PH_COND2-R_090227A			02/27/09 13:00	
Conductivity @ 25 C	992	umhos/cm	5.0				2.1	10	
Sample ID: R09020293-015ADUP	Sample Duplicate				Run: PH_COND2-R_090227A			02/27/09 13:17	
Conductivity @ 25 C	1300	umhos/cm	5.0				0.8	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 090302A-SLDS-TDS-W	
Sample ID: LCS1_090302A	Laboratory Control Sample				Run: BAL-4-R_090302B			03/02/09 09:44	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	111	90	110			S
Sample ID: MBLK1_090302A	Method Blank				Run: BAL-4-R_090302B			03/02/09 09:45	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R09020293-008AMS	Sample Matrix Spike				Run: BAL-4-R_090302B			03/02/09 10:00	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120			
Sample ID: R09020293-008AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_090302B			03/02/09 10:01	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	0	10	
Sample ID: R09020294-003AMS	Sample Matrix Spike				Run: BAL-4-R_090302B			03/02/09 10:08	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	108	80	120			
Sample ID: R09020294-003AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_090302B			03/02/09 10:09	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	113	80	120	0.7	10	
Method: A2580 B								Batch: 090302-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_090302A			03/02/09 11:00	
Oxidation-Reduction Potential	480	mV		101	95	105			
Method: A3114 B								Batch: C_SE3114-090306IV	
Sample ID: MBLK	Method Blank				Run: SUB-C115572			03/06/09 13:38	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 03020	Laboratory Control Sample				Run: SUB-C115572			03/06/09 13:40	
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: R09020293-001E	Sample Matrix Spike				Run: SUB-C115572			03/06/09 13:48	
Selenium-IV	0.049	mg/L	0.0010	98	85	115			
Sample ID: R09020293-001E	Sample Matrix Spike Duplicate				Run: SUB-C115572			03/06/09 13:50	
Selenium-IV	0.046	mg/L	0.0010	92	85	115	6.8	10	
Sample ID: R09020293-010E	Sample Matrix Spike				Run: SUB-C115572			03/06/09 14:20	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R09020293-010E	Sample Matrix Spike Duplicate				Run: SUB-C115572			03/06/09 14:23	
Selenium-IV	0.044	mg/L	0.0010	88	85	115	4.5	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 090227_1_PH-W
Sample ID: LCS_pH-1_090227	Laboratory Control Sample				Run: PH_COND2-R_090227B			02/27/09 10:36	
pH	6.87	s.u.	0.010	100	98.55	101.45			
Sample ID: R09020293-004ADUP	Sample Duplicate				Run: PH_COND2-R_090227B			02/27/09 10:57	
pH	6.79	s.u.	0.010				0.4	1.25	
Sample ID: R09020293-014ADUP	Sample Duplicate				Run: PH_COND2-R_090227B			02/27/09 11:15	
pH	7.56	s.u.	0.010				0.1	1.25	
Method: A4500-NH3 G									Batch: A2009-02-27_2_NH3_01
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_090227A			02/27/09 10:50	
Nitrogen, Ammonia as N	0.02	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_090227A			02/27/09 10:52	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_090227A			02/27/09 11:04	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	88	90	110			S
Sample ID: R09020293-003BMS	Sample Matrix Spike				Run: TECHAA2-R_090227A			02/27/09 15:28	
Nitrogen, Ammonia as N	0.62	mg/L	0.10	87	80	120			
Sample ID: R09020293-003BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A			02/27/09 15:29	
Nitrogen, Ammonia as N	0.63	mg/L	0.10	92	80	120	2.1	10	
Sample ID: R09020293-011BMS	Sample Matrix Spike				Run: TECHAA2-R_090227A			02/27/09 15:42	
Nitrogen, Ammonia as N	0.31	mg/L	0.10	101	80	120			
Sample ID: R09020293-011BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A			02/27/09 15:43	
Nitrogen, Ammonia as N	0.33	mg/L	0.10	105	80	120	3.4	10	
Sample ID: R09020314-001CMS	Sample Matrix Spike				Run: TECHAA2-R_090227A			02/27/09 16:10	
Nitrogen, Ammonia as N	0.20	mg/L	0.10	80	80	120			
Sample ID: R09020314-001CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A			02/27/09 16:11	
Nitrogen, Ammonia as N	0.18	mg/L	0.10	72	80	120	11	10	SR

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92									Batch: C_R115409
Sample ID: R09020293-015G	Sample Duplicate				Run: SUB-C115409				02/28/09 09:50
Radon 222	234	pCi/L	100				0	30	
Radon 222 precision (±)	66.2	pCi/L							
Sample ID: MB-R115409	Method Blank				Run: SUB-C115409				02/28/09 09:50
Radon 222	10	pCi/L							U
Radon 222 precision (±)	30	pCi/L							
Sample ID: LCS-R115409	Laboratory Control Sample				Run: SUB-C115409				02/28/09 09:50
Radon 222	301	pCi/L	100	95	70	130			
Method: E200.7									Batch: C_21707
Sample ID: MB-21707	Method Blank				Run: SUB-C115709				03/10/09 16:32
Boron	ND	mg/L	0.04						
Manganese	ND	mg/L	0.02						
Sample ID: LCS3-21707	Laboratory Control Sample				Run: SUB-C115709				03/10/09 16:36
Boron	0.509	mg/L	0.10	102	85	115			
Manganese	2.56	mg/L	0.020	102	85	115			
Sample ID: C09030079-003CMS3	Sample Matrix Spike				Run: SUB-C115709				03/10/09 17:08
Boron	0.547	mg/L	0.10	109	70	130			
Manganese	3.00	mg/L	0.020	107	70	130			
Sample ID: C09030079-003CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C115709				03/10/09 17:12
Boron	0.557	mg/L	0.10	111	70	130	1.8	20	
Manganese	3.08	mg/L	0.020	110	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R115623	
Sample ID: C09020945-001BMS	Sample Matrix Spike				Run: SUB-C115623			03/06/09 21:01	
Barium	0.561	mg/L	0.10	97	70	130			
Boron	0.518	mg/L	0.10	96	70	130			
Iron	0.561	mg/L	0.030	93	70	130			
Silicon	3.97	mg/L	0.10		70	130			A
Strontium	0.711	mg/L	0.10	110	70	130			
Calcium	67.4	mg/L	1.2	95	70	130			
Magnesium	56.9	mg/L	1.0	102	70	130			
Potassium	56.8	mg/L	1.0	95	70	130			
Sodium	83.8	mg/L	1.0	96	70	130			
Silica	8.49	mg/L	0.21		70	130			A
Sample ID: C09020945-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C115623			03/06/09 21:05	
Barium	0.551	mg/L	0.10	95	70	130	1.7	20	
Boron	0.509	mg/L	0.10	94	70	130	1.7	20	
Iron	0.551	mg/L	0.030	91	70	130	1.7	20	
Silicon	3.94	mg/L	0.10		70	130	0.7	20	A
Strontium	0.690	mg/L	0.10	105	70	130	3	20	
Calcium	65.7	mg/L	1.2	92	70	130	2.5	20	
Magnesium	54.1	mg/L	1.0	97	70	130	5.1	20	
Potassium	53.7	mg/L	1.0	89	70	130	5.6	20	
Sodium	80.3	mg/L	1.0	89	70	130	4.3	20	
Silica	8.43	mg/L	0.21		70	130	0.7	20	A
Sample ID: C09020974-006CMS	Sample Matrix Spike				Run: SUB-C115623			03/06/09 22:08	
Barium	2.40	mg/L	0.10	94	70	130			
Boron	2.36	mg/L	0.10	91	70	130			
Iron	2.33	mg/L	0.030	90	70	130			
Silicon	5.18	mg/L	0.10	65	70	130			S
Strontium	3.66	mg/L	0.10	96	70	130			
Calcium	283	mg/L	6.2	91	70	130			
Magnesium	257	mg/L	1.0	92	70	130			
Potassium	238	mg/L	1.0	89	70	130			
Sodium	405	mg/L	1.0	88	70	130			
Silica	11.1	mg/L	0.21	65	70	130			S
Sample ID: C09020974-006CMSD	Sample Matrix Spike Duplicate				Run: SUB-C115623			03/06/09 22:12	
Barium	2.45	mg/L	0.10	96	70	130	2	20	
Boron	2.43	mg/L	0.10	93	70	130	2.7	20	
Iron	2.39	mg/L	0.030	93	70	130	2.8	20	
Silicon	5.30	mg/L	0.10	70	70	130	2.4	20	
Strontium	3.77	mg/L	0.10	100	70	130	2.9	20	
Calcium	288	mg/L	6.2	93	70	130	1.8	20	
Magnesium	258	mg/L	1.0	93	70	130	0.3	20	
Potassium	237	mg/L	1.0	88	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R115623	
Sample ID: C09020974-006CMSD	Sample Matrix Spike Duplicate				Run: SUB-C115623			03/06/09 22:12	
Sodium	406	mg/L	1.0	88	70	130	0.3	20	
Silica	11.4	mg/L	0.21	70	70	130	2.4	20	
Sample ID: R09020293-012D	Sample Matrix Spike				Run: SUB-C115623			03/06/09 23:33	
Barium	2.46	mg/L	0.10	97	70	130			
Boron	2.44	mg/L	0.18	96	70	130			
Iron	2.47	mg/L	0.11	97	70	130			
Silicon	5.52	mg/L	0.11	67	70	130			S
Strontium	3.52	mg/L	0.11	95	70	130			
Calcium	291	mg/L	1.1	93	70	130			
Magnesium	250	mg/L	1.2	92	70	130			
Potassium	233	mg/L	1.0	88	70	130			
Sodium	418	mg/L	1.1	86	70	130			
Silica	11.8	mg/L	0.23	144	70	130			S
Sample ID: R09020293-012D	Sample Matrix Spike Duplicate				Run: SUB-C115623			03/06/09 23:38	
Barium	2.20	mg/L	0.10	86	70	130	11	20	
Boron	2.19	mg/L	0.18	86	70	130	11	20	
Iron	2.18	mg/L	0.11	86	70	130	12	20	
Silicon	4.91	mg/L	0.11	43	70	130	12	20	S
Strontium	3.30	mg/L	0.11	86	70	130	6.5	20	
Calcium	265	mg/L	1.1	83	70	130	9.3	20	
Magnesium	237	mg/L	1.2	86	70	130	5.7	20	
Potassium	233	mg/L	1.0	88	70	130	0.1	20	
Sodium	416	mg/L	1.1	85	70	130	0.5	20	
Silica	10.5	mg/L	0.23	92	70	130	12	20	
Method: E200.7								Batch: C_R115709	
Sample ID: C09020884-001BMS	Sample Matrix Spike				Run: SUB-C115709			03/10/09 18:34	
Boron	3.15	mg/L	0.10	100	70	130			
Sample ID: C09020884-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C115709			03/10/09 18:39	
Boron	3.09	mg/L	0.10	97	70	130	2.1	20	
Sample ID: R09020293-012D	Sample Matrix Spike				Run: SUB-C115709			03/10/09 19:43	
Boron	2.49	mg/L	0.18	99	70	130			
Sample ID: R09020293-012D	Sample Matrix Spike Duplicate				Run: SUB-C115709			03/10/09 19:48	
Boron	2.47	mg/L	0.18	99	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8									Batch: C_21713
Sample ID: MB-21713	Method Blank				Run: SUB-C115669				03/10/09 00:42
Uranium	8E-05	mg/L	1E-05						
Sample ID: LCS2-21713	Laboratory Control Sample				Run: SUB-C115669				03/10/09 00:47
Uranium	0.0800	mg/L	0.00030	80	75	125			
Method: E200.7_8									Batch: C_R115623
Sample ID: LRB	Method Blank				Run: SUB-C115623				03/06/09 12:28
Barium	ND	mg/L	0.002						
Boron	0.02	mg/L	0.006						
Iron	0.06	mg/L	0.0004						
Silicon	0.004	mg/L	0.003						
Strontium	0.002	mg/L	0.002						
Calcium	0.4	mg/L	0.02						
Magnesium	0.5	mg/L	0.01						
Potassium	0.1	mg/L	0.005						
Sodium	0.01	mg/L	0.006						
Silica	0.009	mg/L	0.005						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115623				03/06/09 12:33
Barium	2.53	mg/L	0.10	101	80	120			
Boron	2.55	mg/L	0.10	101	80	120			
Iron	2.50	mg/L	0.030	97	80	120			
Silicon	2.57	mg/L	0.0025	103	80	120			
Strontium	2.47	mg/L	0.10	99	80	120			
Calcium	25.0	mg/L	0.50	98	80	120			
Magnesium	24.9	mg/L	0.50	98	80	120			
Potassium	24.4	mg/L	0.50	97	80	120			
Sodium	25.1	mg/L	0.50	100	80	120			
Silica	5.50	mg/L	0.0054	103	80	120			
Method: E200.7_8									Batch: C_R115709
Sample ID: LRB	Method Blank				Run: SUB-C115709				03/10/09 14:55
Boron	0.02	mg/L	0.006						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115709				03/10/09 14:59
Boron	2.55	mg/L	0.10	101	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_21707
Sample ID: MB-21707	Method Blank				Run: SUB-C115667				03/10/09 03:59
Antimony	0.0008	mg/L	0.0004						
Arsenic	0.002	mg/L	4E-05						
Barium	ND	mg/L	0.0007						
Beryllium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	5E-05						
Chromium	0.0005	mg/L	8E-05						
Copper	0.0002	mg/L	0.0001						
Iron	0.003	mg/L	0.002						
Lead	ND	mg/L	9E-05						
Manganese	0.00010	mg/L	4E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Selenium	0.0001	mg/L	7E-05						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	0.0002						
Thallium	ND	mg/L	0.0003						
Uranium	ND	mg/L	7E-05						
Zinc	0.002	mg/L	0.0009						
Sample ID: LCS3-21707	Laboratory Control Sample				Run: SUB-C115667				03/10/09 04:06
Antimony	0.575	mg/L	0.050	115	85	115			
Arsenic	0.495	mg/L	0.0010	99	85	115			
Barium	0.509	mg/L	0.10	102	85	115			
Beryllium	0.213	mg/L	0.010	85	85	115			
Cadmium	0.258	mg/L	0.010	103	85	115			
Chromium	0.507	mg/L	0.050	101	85	115			
Copper	0.524	mg/L	0.010	105	85	115			
Iron	2.45	mg/L	0.030	98	85	115			
Lead	0.537	mg/L	0.050	107	85	115			
Manganese	2.35	mg/L	0.010	94	85	115			
Molybdenum	0.466	mg/L	0.10	93	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Selenium	0.499	mg/L	0.0010	100	85	115			
Silver	0.0474	mg/L	0.010	95	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Thallium	0.530	mg/L	0.10	106	85	115			
Uranium	0.528	mg/L	0.00030	106	85	115			
Zinc	0.492	mg/L	0.010	98	85	115			
Sample ID: C09030079-003CMS3	Sample Matrix Spike				Run: SUB-C115667				03/10/09 05:30
Antimony	0.586	mg/L	0.050	117	70	130			
Arsenic	0.494	mg/L	0.0010	98	70	130			
Barium	0.712	mg/L	0.10	117	70	130			

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Client: RESPEC Inc
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Report Date: 04/14/09
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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_21707
Sample ID: C09030079-003CMS3	Sample Matrix Spike				Run: SUB-C115667				03/10/09 05:30
Beryllium	0.178	mg/L	0.010	71	70	130			
Cadmium	0.259	mg/L	0.010	103	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.521	mg/L	0.010	103	70	130			
Iron	6.01	mg/L	0.030	112	70	130			
Lead	0.545	mg/L	0.050	108	70	130			
Manganese	2.54	mg/L	0.010	90	70	130			
Molybdenum	0.453	mg/L	0.10	90	70	130			
Nickel	0.485	mg/L	0.050	96	70	130			
Selenium	0.479	mg/L	0.0010	95	70	130			
Silver	0.0471	mg/L	0.010	94	70	130			
Strontium	0.816	mg/L	0.10	101	70	130			
Thallium	0.533	mg/L	0.10	107	70	130			
Uranium	0.538	mg/L	0.00030	106	70	130			
Zinc	0.495	mg/L	0.010	96	70	130			
Sample ID: C09030079-003CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C115667				03/10/09 05:36
Antimony	0.586	mg/L	0.050	117	70	130	0	20	
Arsenic	0.494	mg/L	0.0010	98	70	130	0	20	
Barium	0.714	mg/L	0.10	117	70	130	0.2	20	
Beryllium	0.172	mg/L	0.010	69	70	130	3.7	20	S
Cadmium	0.260	mg/L	0.010	104	70	130	0.6	20	
Chromium	0.502	mg/L	0.050	99	70	130	2.1	20	
Copper	0.519	mg/L	0.010	103	70	130	0.4	20	
Iron	5.93	mg/L	0.030	109	70	130	1.4	20	
Lead	0.548	mg/L	0.050	109	70	130	0.6	20	
Manganese	2.52	mg/L	0.010	89	70	130	0.6	20	
Molybdenum	0.453	mg/L	0.10	90	70	130	0	20	
Nickel	0.484	mg/L	0.050	96	70	130	0.2	20	
Selenium	0.485	mg/L	0.0010	97	70	130	1.4	20	
Silver	0.0478	mg/L	0.010	96	70	130	1.3	20	
Strontium	0.818	mg/L	0.10	102	70	130	0.2	20	
Thallium	0.538	mg/L	0.10	108	70	130	0.9	20	
Uranium	0.547	mg/L	0.00030	108	70	130	1.7	20	
Zinc	0.493	mg/L	0.010	96	70	130	0.4	20	
Sample ID: MB-21707	Method Blank				Run: SUB-C115926				03/16/09 22:22
Beryllium	ND	mg/L	6E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	0.0001	mg/L	9E-05						
Sample ID: LCS3-21707	Laboratory Control Sample				Run: SUB-C115926				03/16/09 22:28
Beryllium	0.297	mg/L	0.010	119	85	115			S
Manganese	2.48	mg/L	0.010	99	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

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Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_21707
Sample ID: LCS3-21707	Laboratory Control Sample				Run: SUB-C115926				03/16/09 22:28
Molybdenum	0.529	mg/L	0.10	106	85	115			
- Response for Be is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder c the run QA is within acceptance range, this batch is approved.									
Sample ID: C09030079-003CMS3	Sample Matrix Spike				Run: SUB-C115926				03/16/09 23:42
Beryllium	0.281	mg/L	0.010	112	70	130			
Manganese	2.73	mg/L	0.010	97	70	130			
Molybdenum	0.531	mg/L	0.10	106	70	130			
Sample ID: C09030079-003CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C115926				03/16/09 23:49
Beryllium	0.276	mg/L	0.010	110	70	130	1.9	20	
Manganese	2.72	mg/L	0.010	97	70	130	0.6	20	
Molybdenum	0.531	mg/L	0.10	106	70	130	0.1	20	
Method: E200.8									Batch: C_21713
Sample ID: R09020293-015I	Post Digestion Spike				Run: SUB-C115669				03/10/09 04:30
Uranium	0.0118	mg/L	0.00030	94	70	130			
Sample ID: R09020293-015I	Post Digestion Spike Duplicate				Run: SUB-C115669				03/10/09 04:34
Uranium	0.0120	mg/L	0.00030	96	70	130	1.9	20	

Qualifiers:

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ND - Not detected at the reporting limit.

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Client: RESPEC Inc
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Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R115500
Sample ID: LRB	Method Blank				Run: SUB-C115500				03/04/09 13:17
Aluminum	ND	mg/L	0.002						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	ND	mg/L	2E-05						
Thorium 232	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115500				03/04/09 13:24
Aluminum	0.0504	mg/L	0.0022	101	85	115			
Arsenic	0.0522	mg/L	0.0010	104	85	115			
Barium	0.0516	mg/L	0.0010	103	85	115			
Cadmium	0.0514	mg/L	0.0010	103	85	115			
Chromium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0468	mg/L	0.0010	94	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00513	mg/L	0.0010	103	85	115			
Molybdenum	0.0508	mg/L	0.0010	102	85	115			
Nickel	0.0501	mg/L	0.0010	100	85	115			
Silver	0.0215	mg/L	0.0010	108	85	115			
Thorium 232	0.0493	mg/L	0.0010	99	85	115			
Uranium	0.0496	mg/L	0.00030	99	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0539	mg/L	0.0010	108	85	115			
Sample ID: C09020974-009CMS4	Post Digestion Spike				Run: SUB-C115500				03/04/09 21:06
Aluminum	0.0534	mg/L	0.10	107	70	130			
Arsenic	0.0666	mg/L	0.0010	110	70	130			
Barium	0.0688	mg/L	0.10	114	70	130			
Cadmium	0.0551	mg/L	0.010	110	70	130			
Chromium	0.0531	mg/L	0.050	106	70	130			
Copper	0.0477	mg/L	0.010	95	70	130			
Lead	0.0557	mg/L	0.050	111	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R115500
Sample ID: C09020974-009CMS4	Post Digestion Spike				Run: SUB-C115500				03/04/09 21:06
Manganese	0.120	mg/L	0.010	106	70	130			
Mercury	0.00538	mg/L	0.0010	108	70	130			
Molybdenum	0.0567	mg/L	0.10	111	70	130			
Nickel	0.0505	mg/L	0.050	101	70	130			
Silver	0.0118	mg/L	0.010	59	70	130			S
Thorium 232	0.0567	mg/L	0.0010	113	70	130			
Uranium	0.0587	mg/L	0.00030	112	70	130			
Vanadium	0.0551	mg/L	0.10	110	70	130			
Zinc	0.0556	mg/L	0.010	111	70	130			
Sample ID: C09020974-009CMSD4	Post Digestion Spike Duplicate				Run: SUB-C115500				03/04/09 21:13
Aluminum	0.0514	mg/L	0.10	103	70	130		20	
Arsenic	0.0666	mg/L	0.0010	110	70	130	0	20	
Barium	0.0686	mg/L	0.10	114	70	130		20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.9	20	
Chromium	0.0530	mg/L	0.050	106	70	130	0.1	20	
Copper	0.0474	mg/L	0.010	95	70	130	0.6	20	
Lead	0.0560	mg/L	0.050	112	70	130	0.7	20	
Manganese	0.121	mg/L	0.010	107	70	130	0.6	20	
Mercury	0.00547	mg/L	0.0010	109	70	130	1.7	20	
Molybdenum	0.0563	mg/L	0.10	110	70	130		20	
Nickel	0.0506	mg/L	0.050	101	70	130	0.2	20	
Silver	0.0153	mg/L	0.010	76	70	130	26	20	R
Thorium 232	0.0571	mg/L	0.0010	114	70	130	0.7	20	
Uranium	0.0590	mg/L	0.00030	113	70	130	0.6	20	
Vanadium	0.0550	mg/L	0.10	110	70	130		20	
Zinc	0.0553	mg/L	0.010	111	70	130	0.5	20	
Sample ID: C09020995-014DMS4	Post Digestion Spike				Run: SUB-C115500				03/04/09 23:01
Aluminum	0.119	mg/L	0.10	107	70	130			
Arsenic	0.0591	mg/L	0.0010	111	70	130			
Barium	0.103	mg/L	0.10	113	70	130			
Cadmium	0.0542	mg/L	0.010	108	70	130			
Chromium	0.0523	mg/L	0.050	104	70	130			
Copper	0.0484	mg/L	0.010	97	70	130			
Lead	0.0565	mg/L	0.050	111	70	130			
Manganese	0.0550	mg/L	0.010	104	70	130			
Mercury	0.00526	mg/L	0.0010	105	70	130			
Molybdenum	0.0605	mg/L	0.10	111	70	130			
Nickel	0.0586	mg/L	0.050	101	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thorium 232	0.0567	mg/L	0.0010	113	70	130			
Uranium	0.150	mg/L	0.00030	114	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R115500
Sample ID: C09020995-014DMS4	Post Digestion Spike				Run: SUB-C115500				03/04/09 23:01
Vanadium	0.0623	mg/L	0.10	107	70	130			
Zinc	0.0788	mg/L	0.010	113	70	130			
Sample ID: C09020995-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C115500				03/04/09 23:08
Aluminum	0.120	mg/L	0.10	108	70	130	0.7	20	
Arsenic	0.0582	mg/L	0.0010	110	70	130	1.5	20	
Barium	0.103	mg/L	0.10	113	70	130	0.3	20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.8	20	
Chromium	0.0522	mg/L	0.050	104	70	130	0.3	20	
Copper	0.0475	mg/L	0.010	95	70	130	1.7	20	
Lead	0.0564	mg/L	0.050	111	70	130	0.2	20	
Manganese	0.0545	mg/L	0.010	104	70	130	0.8	20	
Mercury	0.00532	mg/L	0.0010	106	70	130	1.1	20	
Molybdenum	0.0608	mg/L	0.10	111	70	130		20	
Nickel	0.0572	mg/L	0.050	98	70	130	2.4	20	
Silver	0.0153	mg/L	0.010	76	70	130	3.7	20	
Thorium 232	0.0569	mg/L	0.0010	114	70	130	0.4	20	
Uranium	0.150	mg/L	0.00030	115	70	130	0.3	20	
Vanadium	0.0621	mg/L	0.10	107	70	130		20	
Zinc	0.0767	mg/L	0.010	108	70	130	2.7	20	
Sample ID: C09030090-004AMS	Sample Matrix Spike				Run: SUB-C115500				03/04/09 16:22
Uranium	0.053	mg/L	0.0010	99	70	130			
Sample ID: C09030090-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C115500				03/04/09 16:29
Uranium	0.053	mg/L	0.0010	99	70	130	0.1	20	
Method: E200.8									Batch: C_R115550
Sample ID: LRB	Method Blank				Run: SUB-C115550				03/06/09 00:41
Manganese	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115550				03/06/09 00:47
Manganese	0.0479	mg/L	0.0010	96	85	115			
Sample ID: R09020293-015D	Post Digestion Spike				Run: SUB-C115550				03/06/09 04:52
Manganese	0.129	mg/L	0.010	123	70	130			
Silver	0.0175	mg/L	0.010	87	70	130			
Sample ID: R09020293-015D	Post Digestion Spike Duplicate				Run: SUB-C115550				03/06/09 04:59
Manganese	0.126	mg/L	0.010	117	70	130	2.3	20	
Silver	0.0174	mg/L	0.010	87	70	130	0.6	20	

Qualifiers:

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Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R115667
Sample ID: LRB	Method Blank				Run: SUB-C115667				03/09/09 12:22
Antimony	ND	mg/L	0.0006						
Arsenic	ND	mg/L	5E-05						
Beryllium	ND	mg/L	6E-05						
Boron	0.0005	mg/L	0.0004						
Cadmium	ND	mg/L	4E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Iron	ND	mg/L	0.0006						
Lead	ND	mg/L	2E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	3E-05						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	3E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115667				03/09/09 12:29
Antimony	0.0481	mg/L	0.0010	96	85	115			
Arsenic	0.0491	mg/L	0.0010	98	85	115			
Beryllium	0.0478	mg/L	0.0010	96	85	115			
Boron	0.0481	mg/L	0.0010	95	85	115			
Cadmium	0.0489	mg/L	0.0010	98	85	115			
Chromium	0.0490	mg/L	0.0010	98	85	115			
Copper	0.0495	mg/L	0.0010	99	85	115			
Iron	1.27	mg/L	0.0010	101	85	115			
Lead	0.0489	mg/L	0.0010	98	85	115			
Molybdenum	0.0485	mg/L	0.0010	97	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Selenium	0.0497	mg/L	0.0010	99	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Strontium	0.0462	mg/L	0.0010	92	85	115			
Thallium	0.0490	mg/L	0.0010	98	85	115			
Uranium	0.0461	mg/L	0.00030	92	85	115			
Zinc	0.0521	mg/L	0.0010	104	85	115			
Sample ID: R09020293-009D	Post Digestion Spike				Run: SUB-C115667				03/09/09 14:27
Antimony	0.0511	mg/L	0.050	102	70	130			
Arsenic	0.0728	mg/L	0.0010	101	70	130			
Beryllium	0.0454	mg/L	0.010	91	70	130			
Boron	0.110	mg/L	0.10	88	70	130			
Cadmium	0.0497	mg/L	0.010	99	70	130			

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R115667	
Sample ID: R09020293-009D	Post Digestion Spike				Run: SUB-C115667			03/09/09 14:27	
Chromium	0.0494	mg/L	0.050	99	70	130			
Copper	0.0488	mg/L	0.010	98	70	130			
Iron	2.59	mg/L	0.030	103	70	130			
Lead	0.0498	mg/L	0.050	100	70	130			
Molybdenum	0.0487	mg/L	0.10	95	70	130			
Nickel	0.0492	mg/L	0.050	98	70	130			
Selenium	0.0532	mg/L	0.0010	106	70	130			
Silver	0.00800	mg/L	0.010	40	70	130			S
Strontium	1.36	mg/L	0.10		70	130			A
Thallium	0.0498	mg/L	0.10	100	70	130			
Uranium	0.0506	mg/L	0.00030	96	70	130			
Zinc	0.0520	mg/L	0.010	101	70	130			
Sample ID: R09020293-009D	Post Digestion Spike Duplicate				Run: SUB-C115667			03/09/09 14:33	
Antimony	0.0519	mg/L	0.050	104	70	130	1.6	20	
Arsenic	0.0731	mg/L	0.0010	102	70	130	0.5	20	
Beryllium	0.0462	mg/L	0.010	92	70	130	1.9	20	
Boron	0.112	mg/L	0.10	91	70	130	1.5	20	
Cadmium	0.0500	mg/L	0.010	100	70	130	0.7	20	
Chromium	0.0494	mg/L	0.050	99	70	130		20	
Copper	0.0489	mg/L	0.010	98	70	130	0.2	20	
Iron	2.57	mg/L	0.030	102	70	130	0.8	20	
Lead	0.0506	mg/L	0.050	101	70	130		20	
Molybdenum	0.0491	mg/L	0.10	96	70	130		20	
Nickel	0.0492	mg/L	0.050	98	70	130		20	
Selenium	0.0535	mg/L	0.0010	107	70	130	0.6	20	
Silver	0.00768	mg/L	0.010	38	70	130		20	S
Strontium	1.36	mg/L	0.10		70	130	0.5	20	A
Thallium	0.0504	mg/L	0.10	101	70	130		20	
Uranium	0.0509	mg/L	0.00030	97	70	130	0.6	20	
Zinc	0.0519	mg/L	0.010	101	70	130	0.1	20	
Sample ID: C09030226-001CMS4	Post Digestion Spike				Run: SUB-C115667			03/10/09 07:08	
Antimony	0.0546	mg/L	0.050	109	70	130			
Arsenic	0.0529	mg/L	0.0010	100	70	130			
Beryllium	0.0341	mg/L	0.010	68	70	130			S
Boron	0.147	mg/L	0.10	57	70	130			S
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0481	mg/L	0.050	93	70	130			
Copper	0.0484	mg/L	0.010	97	70	130			
Iron	1.35	mg/L	0.030	102	70	130			
Lead	0.0507	mg/L	0.050	101	70	130			
Molybdenum	0.0506	mg/L	0.10	89	70	130			

Qualifiers:

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R115667	
Sample ID: C09030226-001CMS4	Post Digestion Spike				Run: SUB-C115667			03/10/09 07:08	
Nickel	0.0481	mg/L	0.050	95	70	130			
Selenium	0.0529	mg/L	0.0010	106	70	130			
Silver	0.0112	mg/L	0.010	56	70	130			S
Strontium	1.24	mg/L	0.10		70	130			A
Thallium	0.0504	mg/L	0.10	101	70	130			
Uranium	0.0500	mg/L	0.00030	97	70	130			
Zinc	0.0521	mg/L	0.010	102	70	130			
Sample ID: C09030226-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C115667			03/10/09 07:14	
Antimony	0.0543	mg/L	0.050	109	70	130	0.4	20	
Arsenic	0.0531	mg/L	0.0010	100	70	130	0.4	20	
Beryllium	0.0342	mg/L	0.010	68	70	130	0.2	20	S
Boron	0.147	mg/L	0.10	58	70	130	0.1	20	S
Cadmium	0.0492	mg/L	0.010	98	70	130	0.1	20	
Chromium	0.0482	mg/L	0.050	94	70	130		20	
Copper	0.0480	mg/L	0.010	96	70	130	0.7	20	
Iron	1.30	mg/L	0.030	98	70	130	3.5	20	
Lead	0.0506	mg/L	0.050	101	70	130	0.1	20	
Molybdenum	0.0497	mg/L	0.10	87	70	130		20	
Nickel	0.0477	mg/L	0.050	94	70	130		20	
Selenium	0.0507	mg/L	0.0010	101	70	130	4.2	20	
Silver	0.0118	mg/L	0.010	59	70	130	5.3	20	S
Strontium	1.25	mg/L	0.10		70	130	0.6	20	A
Thallium	0.0503	mg/L	0.10	101	70	130		20	
Uranium	0.0499	mg/L	0.00030	97	70	130	0.1	20	
Zinc	0.0520	mg/L	0.010	102	70	130	0.1	20	
Method: E200.8								Batch: C_R115711	
Sample ID: LRB	Method Blank				Run: SUB-C115711			03/10/09 12:30	
Beryllium	ND	mg/L	6E-05						
Molybdenum	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115711			03/10/09 12:37	
Beryllium	0.0517	mg/L	0.0010	103	85	115			
Molybdenum	0.0499	mg/L	0.0010	100	85	115			
Sample ID: C09030221-002BMS4	Post Digestion Spike				Run: SUB-C115711			03/11/09 04:41	
Beryllium	0.238	mg/L	0.010	95	70	130			
Molybdenum	0.264	mg/L	0.10	104	70	130			
Sample ID: C09030221-002BMSD4	Post Digestion Spike Duplicate				Run: SUB-C115711			03/11/09 04:48	
Beryllium	0.236	mg/L	0.010	95	70	130	0.7	20	
Molybdenum	0.263	mg/L	0.10	104	70	130	0.1	20	

Qualifiers:

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_37498
Sample ID: MB-37498	Method Blank				Run: SUB-B125567				03/02/09 10:54
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37498	Laboratory Fortified Blank				Run: SUB-B125567				03/02/09 10:56
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B09022083-001JMS	Sample Matrix Spike				Run: SUB-B125567				03/02/09 11:05
Mercury	0.0020	mg/L	0.0010	100	70	130			
Sample ID: B09022083-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-B125567				03/02/09 11:08
Mercury	0.0020	mg/L	0.0010	99	70	130	1	30	
Sample ID: B09022084-003EMS	Sample Matrix Spike				Run: SUB-B125567				03/02/09 11:34
Mercury	0.0019	mg/L	0.0010	95	70	130			
Sample ID: B09022084-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-B125567				03/02/09 11:36
Mercury	0.0020	mg/L	0.0010	95	70	130	0.5	30	
Method: E245.1									Batch: B_37499
Sample ID: MB-37499	Method Blank				Run: SUB-B125469				02/27/09 16:05
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37499	Laboratory Fortified Blank				Run: SUB-B125469				02/27/09 16:07
Mercury	0.0018	mg/L	0.0010	91	85	115			
Sample ID: R09020293-009J	Sample Matrix Spike				Run: SUB-B125469				02/27/09 16:12
Mercury	0.0019	mg/L	0.0010	88	70	130			
Sample ID: R09020293-009J	Sample Matrix Spike Duplicate				Run: SUB-B125469				02/27/09 16:14
Mercury	0.0018	mg/L	0.0010	83	70	130	5.5	30	
Method: E245.1									Analytical Run: SUB-B125469
Sample ID: QCS	Initial Calibration Verification Standard								02/27/09 09:13
Mercury	0.0019	mg/L	0.0010	96	90	110			
Method: E245.1									Analytical Run: SUB-B125567
Sample ID: QCS	Initial Calibration Verification Standard								03/02/09 10:47
Mercury	0.0018	mg/L	0.0010	90	90	110			

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R39724
Sample ID: LFB0902255159-3	Laboratory Fortified Blank				Run: DIONEX_090225A				02/25/09 21:06
Chloride	4.59	mg/L	0.50	92	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.21	mg/L	0.10	88	90	110			S
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0902255159-4	Laboratory Fortified Blank				Run: DIONEX_090225A				02/25/09 21:22
Chloride	4.56	mg/L	0.50	91	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.20	mg/L	0.10	88	90	110			S
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09020255-001BMS	Sample Matrix Spike				Run: DIONEX_090225A				02/25/09 21:55
Chloride	8.88	mg/L	0.50	95	80	120			
Fluoride	2.33	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	109	mg/L	1.0		80	120			A
Sample ID: R09020255-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A				02/25/09 22:11
Chloride	8.76	mg/L	0.50	92	80	120	1.4	10	
Fluoride	2.28	mg/L	0.10	91	80	120	2.2	10	
Nitrogen, Nitrate as N	2.43	mg/L	0.10	92	80	120	2.8	10	
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	80	120	2.9	10	
Sulfate	109	mg/L	1.0		80	120	0.1	10	A
Sample ID: R09020293-004AMS	Sample Matrix Spike				Run: DIONEX_090225A				02/26/09 01:28
Chloride	239	mg/L	5.4	85	80	120			
Fluoride	89.3	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120			
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120			
Sulfate	1940	mg/L	3.4	92	80	120			
Sample ID: R09020293-004AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A				02/26/09 01:45
Chloride	256	mg/L	5.4	91	80	120	6.5	10	
Fluoride	94.8	mg/L	0.56	91	80	120	5.9	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	5.4	10	
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120	5.4	10	
Sulfate	1980	mg/L	3.4	98	80	120	2.1	10	
Sample ID: R09020293-008AMS	Sample Matrix Spike				Run: DIONEX_090225A				02/26/09 04:45
Chloride	249	mg/L	5.4	85	80	120			
Fluoride	93.3	mg/L	0.56	90	80	120			

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MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R39724
Sample ID: R09020293-008AMS	Sample Matrix Spike				Run: DIONEX_090225A				02/26/09 04:45
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1120	mg/L	3.4	83	80	120			
Sample ID: R09020293-008AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A				02/26/09 05:02
Chloride	238	mg/L	5.4	81	80	120	4.3	10	
Fluoride	88.9	mg/L	0.56	86	80	120	4.8	10	
Nitrogen, Nitrate as N	109	mg/L	1.3	87	80	120	4.4	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	5	10	
Sulfate	1080	mg/L	3.4	78	80	120	3.1	10	S
Sample ID: R09020293-012AMS	Sample Matrix Spike				Run: DIONEX_090225A				02/26/09 08:02
Chloride	246	mg/L	5.4	90	80	120			
Fluoride	93.2	mg/L	0.56	90	80	120			
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1060	mg/L	3.4	83	80	120			
Sample ID: R09020293-012AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A				02/26/09 08:19
Chloride	236	mg/L	5.4	86	80	120	4.1	10	
Fluoride	88.4	mg/L	0.56	85	80	120	5.3	10	
Nitrogen, Nitrate as N	108	mg/L	1.3	87	80	120	5.3	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	94	80	120	5.2	10	
Sulfate	1040	mg/L	3.4	80	80	120	2	10	
Method: E300.0									Batch: R39736
Sample ID: LFB0902262544-3	Laboratory Fortified Blank				Run: DIONEX_090226A				02/26/09 19:28
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: LFB0902262544-4	Laboratory Fortified Blank				Run: DIONEX_090226A				02/26/09 19:44
Sulfate	13.3	mg/L	1.0	88	90	110			S

Qualifiers:

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S - Spike recovery outside of advisory limits.

Chain of Custody and Analytical Request Record

Page 1 of 2

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Env.	Dewey Burdock – Powertech	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	Email:	Sampler: (Please Print)
RESPEC	Allen Scott 605-673-4859		
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT(Electronic Data) Format:_____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

ANALYSIS REQUESTED

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

As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.8 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/ Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	DB Blank 01	2-24-09	18:00	water	B90202 93-001
2	Putnam GW704	2-24-09	9:40	"	002
3	GW 3026	2-24-09	11:35	"	003
4	GW698	2-24-09	12:10	"	004
5	GW698	2-24-09	12:15	"	005
6	GW688	2-24-09	13:23	"	006
7	GW680	2-24-09	13:35	"	007
8	GW622	2-24-09	15:31	"	008
9	GW615	2-24-09	15:45	"	009
10					010

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	2-25-09 1130				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Troiland	2-25-09 1100	

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, and links.

Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin / State:	EPA/State Compliance:
Scott Env.	Dewey Burdock - Powertech		Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
RESPEC	Allen Scott 605-673-4859		
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

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

ANALYSIS REQUESTED

as per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.8 °C

On Ice: Yes No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
1	GW 689	2-24-09	16:04	water	L090202 93-011
2	GW 681	2-24-09	16:18	"	012
3	GW 697	2-24-09	16:45	"	013
4	GW 695	2-24-09	16:56	"	014
5	GW 694	2-24-09	17:15	"	015
6	GW 696	2-24-09	17:31	"	016
7					
8					
9					
10					

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	2-25-09 11:00				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Fairland	2-25-09 1100	

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, and links.

** REPORT **

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

February 27, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No. R10010180

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 1/19/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10010180-001	DB-09-21-01	01/18/10 0:00	01/19/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10010180-002	DB-09-21-02	01/18/10 0:00	01/19/10	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of your sample analysis.

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

If you have any questions regarding the analyses performed or the results of these analyses, please feel free to call (888)672-1225, (605)342-1225 or llarson@energylab.com.

Sincerely,

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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ANALYTICAL SUMMARY REPORT

Linda Larson
Branch Manager
Energy Laboratories, Inc.
Rapid City, SD

Report Approved By: Linda K. Larson Branch Manager

Digitally signed by
Linda Larson
Date: 2010.03.09 13:22:54 -07:00

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10010180

Report Date: 02/27/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.
Comments imported for SUBBED Workorder: C10010713
PO210 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences. Please consult with your local regulatory agency prior to using these results for compliance purposes.

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10010713

Comments
The alkalinity on DB-09-21-01 seems to have some sort of buffering affect. A recheck on the alkalinity resulted in 104 mg/L

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-001
Client Sample ID: DB-09-21-01

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	40	mg/L		5		1	A2320 B	01/26/10 15:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/10 15:01/mb
Bicarbonate as HCO3	44	mg/L		5		1	A2320 B	01/26/10 15:01/mb
Calcium	61	mg/L	D	1		5	E200.7	02/02/10 16:53/eli-c
Chloride	7	mg/L		1		1	E300.0	01/20/10 17:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	01/20/10 17:23/jmh
Magnesium	21.7	mg/L		0.5		5	E200.7	02/02/10 16:53/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/19/10 12:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:23/jmh
Potassium	13.6	mg/L		0.5		5	E200.7	02/02/10 16:53/eli-c
Sodium	166	mg/L	D	1		5	E200.7	02/02/10 16:53/eli-c
Sulfate	513	mg/L		1		20	E300.0	01/20/10 16:33/jmh
Silica	7.1	mg/L		0.2		5	E200.7	02/02/10 16:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1150	umhos/cm		5.0		1	A2510 B	01/21/10 09:16/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	01/25/10 16:00/jmh
pH	9.03	s.u.		0.01		1	A4500-H B	01/22/10 12:07/tb
Sodium Adsorption Ratio (SAR)	4.6	unitless		0.10		1	Calculation	02/05/10 15:38/ADM
Solids, Total Dissolved TDS @ 180 C	770	mg/L		5		1	A2540 C	01/25/10 10:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/27/10 15:48/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/27/10 15:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/27/10 15:48/eli-c
Boron	ND	mg/L		0.1		5	E200.7	02/02/10 16:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/27/10 15:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/27/10 15:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/27/10 15:48/eli-c
Iron	ND	mg/L		0.03		5	E200.7	02/02/10 16:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/27/10 15:48/eli-c
Manganese	0.01	mg/L		0.01		1	E200.8	01/27/10 15:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/27/10 15:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/27/10 15:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/27/10 15:48/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/26/10 12:08/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	01/27/10 15:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/27/10 15:48/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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-001
Client Sample ID: DB-09-21-01

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	01/27/10 15:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/27/10 15:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/27/10 15:48/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/02/10 04:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/26/10 10:32/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/26/10 14:36/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.0	pCi/L	U			1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha MDC	4.6	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta	11.3	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta MDC	3.9	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Lead 210	0.3	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.050	pCi/L	U			1	E912.0	02/19/10 08:46/eli-c
Polonium 210 MDC	0.44	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Radium 226	0.6	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	01/26/10 09:42/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	01/23/10 20:28/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	01/23/10 20:28/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.9	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	4.3	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	7.1	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	-0.056	pCi/L	U			1	E912.0	02/17/10 08:48/eli-c

Report Definitions:
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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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-001
Client Sample ID: DB-09-21-01

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.44	pCi/L				1	E912.0	02/17/10 08:48/eli-c
Polonium 210 MDC	1.2	pCi/L				1	E912.0	02/17/10 08:48/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/04/10 08:48/eli-cat
Radium 226 precision (±)	0.03	pCi/L				1	E903.0	02/04/10 08:48/eli-cat
Radium 226 MDC	0.08	pCi/L				1	E903.0	02/04/10 08:48/eli-cat
Thorium 230	-0.1	pCi/L	U			1	E907.0	02/02/10 15:49/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/02/10 15:49/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	206	pCi/L		100		1	D5072-92	12/20/09 00:00/ADM
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/28/10 16:22/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/28/10 16:22/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/28/10 16:22/eli-c
[illegible]	ND	mg/L		0.001		1	E200.8	01/28/10 16:22/eli-c
Boron	ND	mg/L		0.1		1	E200.8	02/01/10 20:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/28/10 16:22/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/28/10 16:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/28/10 16:22/eli-c
Iron	0.10	mg/L		0.03		1	E200.8	02/01/10 20:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/28/10 16:22/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	01/28/10 16:22/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/21/10 14:54/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/28/10 16:22/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/28/10 16:22/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/01/10 20:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/01/10 20:32/eli-c
Strontium	2.6	mg/L		0.1		1	E200.8	02/01/10 20:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/01/10 20:32/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/01/10 20:32/eli-c
	ND	mg/L		0.01			E200.8	02/01/10 20:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.96	%				1	A1030 E	02/05/10 00:00/jmh
Anions	11.7	meq/L				1	A1030 E	02/05/10 00:00/jmh
Cations	12.4	meq/L				1	A1030 E	02/05/10 00:00/jmh
Solids, Total Dissolved Calculated	825	mg/L				1	A1030 E	02/05/10 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

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-001
Client Sample ID: DB-09-21-01

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	02/05/10 00:00/jmh

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-002
Client Sample ID: DB-09-21-02

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Calcium	172	mg/L	D	1		5	E200.7	02/02/10 16:57/eli-c
Chloride	10	mg/L		1		1	E300.0	01/20/10 17:55/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Magnesium	49.0	mg/L		0.5		5	E200.7	02/02/10 16:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/19/10 12:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Potassium	12.4	mg/L		0.5		5	E200.7	02/02/10 16:57/eli-c
Sodium	127	mg/L	D	1		5	E200.7	02/02/10 16:57/eli-c
Sulfate	714	mg/L		1		20	E300.0	01/20/10 17:39/jmh
Silica	9.1	mg/L		0.2		5	E200.7	02/02/10 16:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1620	umhos/cm		5.0		1	A2510 B	01/21/10 09:18/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	01/25/10 16:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	01/22/10 12:10/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	02/05/10 15:38/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	01/25/10 10:53/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Boron	ND	mg/L		0.1		5	E200.7	02/02/10 16:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/27/10 15:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/27/10 15:54/eli-c
Iron	ND	mg/L		0.03		5	E200.7	02/02/10 16:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Manganese	0.52	mg/L		0.01		1	E200.8	01/27/10 15:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/27/10 15:54/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/26/10 12:15/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/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

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-002
Client Sample ID: DB-09-21-02

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0089	mg/L		0.0003		1	E200.8	01/27/10 15:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/27/10 15:54/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/02/10 04:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/26/10 10:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/26/10 14:36/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	39.7	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha precision (±)	6.7	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta	18.3	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta MDC	6.2	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Lead 210	1 1	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.074	pCi/L	U			1	E912.0	02/19/10 08:46/eli-c
Polonium 210 MDC	1.4	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Radium 226	2.7	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Thorium 230	0.01	pCi/L	U			1	E907.0	01/26/10 09:42/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Gross Gamma	820	pCi/L				1	E901 1	01/23/10 20:28/eli-c
Gross Gamma precision (+)	130	pCi/L				1	E901.1	01/23/10 20:28/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.6	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	4.3	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	7.1	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.12	pCi/L	U			1	E912.0	02/17/10 08:48/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-002
Client Sample ID: DB-09-21-02

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.94	pCi/L				1	E912.0	02/17/10 08:48/eli-c
Polonium 210 MDC	2.1	pCi/L				1	E912.0	02/17/10 08:48/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/04/10 08:48/eli-ca
Radium 226 precision (±)	0.04	pCi/L				1	E903.0	02/04/10 08:48/eli-ca
Radium 226 MDC	0.08	pCi/L				1	E903.0	02/04/10 08:48/eli-ca
Thorium 230	0.06	pCi/L	U			1	E907.0	02/02/10 15:49/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/02/10 15:49/eli-c
- See Case Narrative regarding Pb210 analysis.								
- See Case Narrative regarding Po210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	270	pCi/L		100		1	D5072-92	12/20/09 00:00/ADM
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/28/10 16:28/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	01/28/10 16:28/eli-c
[illegible]	ND	mg/L		0.1		[illegible]	E200.8	01/28/10 16:28/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/28/10 16:28/eli-c
Boron	ND	mg/L		0.1		1	E200.8	02/01/10 20:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/28/10 16:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/28/10 16:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/28/10 16:28/eli-c
Iron	0.03	mg/L		0.03		1	E200.8	02/01/10 20:38/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/28/10 16:28/eli-c
Manganese	0.54	mg/L		0.01		1	E200.8	01/28/10 16:28/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/21/10 14:56/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/28/10 16:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/28/10 16:28/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	01/28/10 16:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/28/10 16:28/eli-c
Strontium	2.4	mg/L		0.1		1	E200.8	01/28/10 16:28/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/28/10 16:28/eli-c
	0.0087	mg/L		0.0003			E200.8	01/28/10 16:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/28/10 16:28/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.62	%				1	A1030 E	02/05/10 00:00/jmh
Anions	19.1	meq/L				1	A1030 E	02/05/10 00:00/jmh
Cations	18.5	meq/L				1	A1030 E	02/05/10 00:00/jmh

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ND Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-002
Client Sample ID: DB-09-21-02

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	1230	mg/L				1	A1030 E	02/05/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	02/05/10 00:00/jmh

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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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100126A-ALK-SEL-W	
Sample ID: LCS1_100126A	Laboratory Control Sample				Run: PH_COND1-R_100126A			01/26/10 14:03	
Alkalinity, Total as CaCO3	984	mg/L	5.0	98	90	110			
Sample ID: MBLK1_100126A	Method Blank				Run: PH_COND1-R_100126A			01/26/10 14:04	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R10010209-001AMS	Sample Matrix Spike				Run: PH_COND1-R_100126A			01/26/10 15:15	
Alkalinity, Total as CaCO3	238	mg/L	5.0	89	80	120			
Sample ID: R10010209-001AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_100126A			01/26/10 15:18	
Alkalinity, Total as CaCO3	238	mg/L	5.0	89	80	120	0	10	

Qualifiers:

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100121_1_COND-PROBE-W	
Sample ID: LCS_COND-1_100121	Laboratory Control Sample				Run: PH_COND2-R_100121A			01/21/10 08:59	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_100121	Laboratory Control Sample				Run: PH_COND2-R_100121A			01/21/10 09:01	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100121	Laboratory Control Sample				Run: PH_COND2-R_100121A			01/21/10 09:03	
Conductivity @ 25 C	5030	umhos/cm	5.0	101	90	110			
Sample ID: MBLK-1_100121	Method Blank				Run: PH_COND2-R_100121A			01/21/10 09:07	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R10010114-001ADUP	Sample Duplicate				Run: PH_COND2-R_100121A			01/21/10 09:11	
Conductivity @ 25 C	5670	umhos/cm	5.0				0	10	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100125A-SLDS-TDS-W	
Sample ID: LCS1_100125A	Laboratory Control Sample				Run: BAL-4-R_100125A			01/25/10 10:51	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	10	100	90	110			
Sample ID: MBLK1_100125A	Method Blank				Run: BAL-4-R_100125A			01/25/10 10:51	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R10010227-001AMS	Sample Matrix Spike				Run: BAL-4-R_100125A			01/25/10 10:59	
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	10	107	80	120			
Sample ID: R10010227-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_100125A			01/25/10 11:00	
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	10	106	80	120	0.1	10	

Qualifiers:

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100125-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_100125A			01/25/10 16:00	
Oxidation-Reduction Potential	460	mV		97	95	105			
Sample ID: R10010180-001F	Sample Duplicate				Run: PH_COND1-R_100125A			01/25/10 16:00	
Oxidation-Reduction Potential	220	mV					5.2	10	

Qualifiers:

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: C_SE3114-100126A
Sample ID: MBLK	Method Blank				Run: SUB-C128931				01/26/10 10:25
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 01051	Laboratory Control Sample				Run: SUB-C128931				01/26/10 10:28
Selenium-IV	0.048	mg/L	0.0010	96	90	110			
Sample ID: R10010180-001E	Sample Matrix Spike				Run: SUB-C128931				01/26/10 10:35
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R10010180-001E	Sample Matrix Spike Duplicate				Run: SUB-C128931				01/26/10 10:37
Selenium-IV	0.048	mg/L	0.0010	97	85	115	3	10	
Method: A3114 B									Batch: C_SE3114-100126B
Sample ID: MBLK	Method Blank				Run: SUB-C128938				01/26/10 12:01
Selenium	ND	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 01051	Laboratory Control Sample				Run: SUB-C128938				01/26/10 12:03
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: R10010180-001E	Sample Matrix Spike				Run: SUB-C128938				01/26/10 12:10
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R10010180-001E	Sample Matrix Spike Duplicate				Run: SUB-C128938				01/26/10 12:12
Selenium	0.051	mg/L	0.0010	103	85	115	0	15	

Qualifiers:
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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100122_1_PH-W
Sample ID: LCS_pH-1_100122	Laboratory Control Sample				Run: PH_COND2-R_100122A				01/22/10 11:58
pH	6.90	s.u.	0.010	101	98.55	101.45			
Sample ID: R10010179-002CDUP	Sample Duplicate				Run: PH_COND2-R_100122A				01/22/10 12:04
pH	8.07	s.u.	0.010				0	1.25	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-01-19_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_100119A			01/19/10 11:06	
Nitrogen, Ammonia as N	0.02	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_100119A			01/19/10 11:29	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	90	110			
Sample ID: R10010180-002BMS	Sample Matrix Spike				Run: TECHAA2-R_100119A			01/19/10 12:20	
Nitrogen, Ammonia as N	0.19	mg/L	0.10	74	80	120			S
Sample ID: R10010180-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_100119A			01/19/10 12:21	
Nitrogen, Ammonia as N	0.19	mg/L	0.10	75	80	120	1.1	10	S

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S Spike recovery outside of advisory limits.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R129210
Sample ID: MB-100202A	Method Blank				Run: SUB-C129210				02/02/10 14:52
Silicon	0.03	mg/L	0.007						
Boron	0.01	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100202A	Laboratory Fortified Blank				Run: SUB-C129210				02/02/10 14:56
Silicon	0.45	mg/L	0.0075	95	85	115			
Boron	1.0	mg/L	0.10	99	85	115			
Calcium	50	mg/L	0.50	99	85	115			
Iron	1.00	mg/L	0.030	100	85	115			
Magnesium	49	mg/L	0.50	99	85	115			
Potassium	44	mg/L	0.50	88	85	115			
Sodium	48	mg/L	0.50	97	85	115			
Silica	0.97	mg/L	0.016	97	85	125			
Sample ID: C10010571-001BMS2	Sample Matrix Spike				Run: SUB-C129210				02/02/10 17:09
Boron	2.03	mg/L	0.10	97	70	130			
Iron	1.99	mg/L	0.030	97	70	130			
Silicon	9.05	mg/L	0.10		70	130			A
Calcium	241	mg/L	1.0	99	70	130			
Magnesium	124	mg/L	1.0	97	70	130			
Potassium	101	mg/L	1.0	80	70	130			
Sodium	141	mg/L	1.0	99	70	130			
Sample ID: C10010571-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C129210				02/02/10 17:13
Boron	2.08	mg/L	0.10	99	70	130	2.5	20	
Iron	1.99	mg/L	0.030	97	70	130	0	20	
Silicon	9.23	mg/L	0.10		70	130	1.9	20	A
Calcium	241	mg/L	1.0	99	70	130	0	20	
Magnesium	123	mg/L	1.0	96	70	130	0.8	20	
Potassium	101	mg/L	1.0	80	70	130	0.1	20	
Sodium	144	mg/L	1.0	102	70	130	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.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R129009
Sample ID: LRB	Method Blank				Run: SUB-C129009				01/27/10 12:26
Aluminum	ND	mg/L	0.002						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	ND	mg/L	2E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	0.0002	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C129009				01/27/10 12:47
Aluminum	0.0541	mg/L	0.0022	108	85	115			
Arsenic	0.0541	mg/L	0.0010	108	85	115			
Barium	0.0560	mg/L	0.0010	112	85	115			
Cadmium	0.0543	mg/L	0.0010	109	85	115			
Chromium	0.0534	mg/L	0.0010	107	85	115			
Copper	0.0536	mg/L	0.0010	107	85	115			
Lead	0.0546	mg/L	0.0010	109	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00557	mg/L	0.0010	111	85	115			
Molybdenum	0.0546	mg/L	0.0010	109	85	115			
Nickel	0.0531	mg/L	0.0010	106	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Thorium 232	0.0510	mg/L	0.0010	102	85	115			
Uranium	0.0537	mg/L	0.00030	107	85	115			
Vanadium	0.0532	mg/L	0.0010	106	85	115			
Zinc	0.0540	mg/L	0.0010	107	85	115			
Sample ID: R10010180-002C	Post Digestion Spike				Run: SUB-C129009				01/27/10 16:01
Aluminum	0.0588	mg/L	0.0010	114	70	130			
Arsenic	0.0606	mg/L	0.0010	115	70	130			
Barium	0.0731	mg/L	0.0010	118	70	130			
Cadmium	0.0547	mg/L	0.010	109	70	130			
Chromium	0.0517	mg/L	0.050	102	70	130			
Copper	0.0524	mg/L	0.010	102	70	130			
Lead	0.0570	mg/L	0.050	114	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R129009
Sample ID: R10010180-002C	Post Digestion Spike				Run: SUB-C129009				01/27/10 16:01
Manganese	0.564	mg/L	0.010		70	130			A
Mercury	0.00581	mg/L	0.0010	116	70	130			
Molybdenum	0.0582	mg/L	0.0010	115	70	130			
Nickel	0.0539	mg/L	0.050	103	70	130			
Silver	0.0189	mg/L	0.010	94	70	130			
Thorium 232	0.0630	mg/L	0.0010	126	70	130			
Uranium	0.0724	mg/L	0.00030	127	70	130			
Vanadium	0.0552	mg/L	0.0010	108	70	130			
Zinc	0.0539	mg/L	0.010	101	70	130			
Sample ID: R10010180-002C	Post Digestion Spike Duplicate				Run: SUB-C129009				01/27/10 16:08
Aluminum	0.0579	mg/L	0.0010	112	70	130	1.5	20	
Arsenic	0.0605	mg/L	0.0010	115	70	130	0.2	20	
Barium	0.0735	mg/L	0.0010	119	70	130	0.6	20	
Cadmium	0.0549	mg/L	0.010	110	70	130	0.4	20	
Chromium	0.0520	mg/L	0.050	102	70	130	0.5	20	
Copper	0.0519	mg/L	0.010	101	70	130	0.9	20	
Lead	0.0571	mg/L	0.050	114	70	130	0.2	20	
Manganese	0.564	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00592	mg/L	0.0010	118	70	130	1.9	20	
Molybdenum	0.0587	mg/L	0.0010	116	70	130	0.9	20	
Nickel	0.0534	mg/L	0.050	102	70	130	1	20	
Silver	0.0188	mg/L	0.010	94	70	130	0.4	20	
Thorium 232	0.0629	mg/L	0.0010	126	70	130	0.1	20	
Uranium	0.0726	mg/L	0.00030	127	70	130	0.2	20	
Vanadium	0.0548	mg/L	0.0010	107	70	130	0.7	20	
Zinc	0.0529	mg/L	0.010	99	70	130	1.8	20	

Qualifiers:

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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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R129058
Sample ID: LRB	Method Blank				Run: SUB-C129058				01/28/10 14:40
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	5E-05	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Selenium	ND	mg/L	0.001						
Silver	4E-05	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	0.0008	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C129058				01/28/10 14:47
Antimony	0.0508	mg/L	0.0010	101	85	115			
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0509	mg/L	0.0010	102	85	115			
Beryllium	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0511	mg/L	0.0010	102	85	115			
Copper	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0506	mg/L	0.0010	101	85	115			
Molybdenum	0.0515	mg/L	0.0010	103	85	115			
Nickel	0.0510	mg/L	0.0010	102	85	115			
Selenium	0.0508	mg/L	0.0014	102	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Strontium	0.0501	mg/L	0.0010	100	85	115			
Thallium	0.0497	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Zinc	0.0521	mg/L	0.0010	103	85	115			
Sample ID: R10010180-002D	Post Digestion Spike				Run: SUB-C129058				01/28/10 16:35
Antimony	0.0564	mg/L	0.050	113	70	130			
Arsenic	0.0550	mg/L	0.0010	103	70	130			
Barium	0.0654	mg/L	0.0010	103	70	130			
Beryllium	0.0441	mg/L	0.010	88	70	130			
Cadmium	0.0489	mg/L	0.010	98	70	130			

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R129058
Sample ID: R10010180-002D	Post Digestion Spike				Run: SUB-C129058				01/28/10 16:35
Chromium	0.0491	mg/L	0.0010	98	70	130			
Copper	0.0458	mg/L	0.010	89	70	130			
Lead	0.0514	mg/L	0.050	103	70	130			
Manganese	0.582	mg/L	0.010		70	130			A
Molybdenum	0.0515	mg/L	0.0010	101	70	130			
Nickel	0.0458	mg/L	0.0010	87	70	130			
Selenium	0.0517	mg/L	0.0010	103	70	130			
Silver	0.00941	mg/L	0.0010	47	70	130			S
Strontium	2.42	mg/L	0.10		70	130			A
Thallium	0.0491	mg/L	0.0010	98	70	130			
Uranium	0.0621	mg/L	0.00030	107	70	130			
Zinc	0.0483	mg/L	0.010	93	70	130			
Sample ID: R10010180-002D	Post Digestion Spike Duplicate				Run: SUB-C129058				01/28/10 16:42
Antimony	0.0565	mg/L	0.050	113	70	130	0.2	20	
Arsenic	0.0556	mg/L	0.0010	105	70	130	1.1	20	
Barium	0.0655	mg/L	0.0010	104	70	130	0.3	20	
Beryllium	0.0448	mg/L	0.010	90	70	130	1.7	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	1.5	20	
Chromium	0.0491	mg/L	0.0010	98	70	130	0	20	
Copper	0.0466	mg/L	0.010	91	70	130	1.8	20	
Lead	0.0514	mg/L	0.050	103	70	130	0.1	20	
Manganese	0.578	mg/L	0.010		70	130	0.7	20	A
Molybdenum	0.0524	mg/L	0.0010	103	70	130	1.8	20	
Nickel	0.0473	mg/L	0.0010	90	70	130	3.2	20	
Selenium	0.0513	mg/L	0.0010	103	70	130	0.7	20	
Silver	0.00920	mg/L	0.0010	46	70	130	2.3	20	S
Strontium	2.43	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0495	mg/L	0.0010	99	70	130	0.9	20	
Uranium	0.0625	mg/L	0.00030	108	70	130	0.6	20	
Zinc	0.0489	mg/L	0.010	94	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C129168	
Sample ID: ICV	Initial Calibration Verification Standard							02/01/10 13:08	
Uranium	0.0495	mg/L	0.00030	99	90	110			
Method: E200.8								Batch: C_25076	
Sample ID: MB-25076	Method Blank				Run: SUB-C129168			02/02/10 00:36	
Uranium	0.01	mg/L	6E-05						
Sample ID: LCS2-25076	Laboratory Control Sample				Run: SUB-C129168			02/02/10 00:40	
Uranium	0.109	mg/L	0.00030	109	85	115			
Sample ID: R10010180-002I	Post Digestion Spike				Run: SUB-C129168			02/02/10 04:44	
Uranium	0.0520	mg/L	0.00030	104	70	130			
Sample ID: R10010180-002I	Post Digestion Spike Duplicate				Run: SUB-C129168			02/02/10 05:05	
Uranium	0.0519	mg/L	0.00030	104	70	130	0.1	20	
Method: E200.8								Batch: C_R129172	
Sample ID: LRB	Method Blank				Run: SUB-C129172			02/01/10 13:36	
Boron	0.0008	mg/L	0.0004						
Iron	ND	mg/L	0.0006						
Selenium	ND	mg/L	3E-05						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	3E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0009	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C129172			02/01/10 13:42	
Boron	0.0524	mg/L	0.0010	98	85	115			
Iron	1.28	mg/L	0.0010	102	85	115			
Selenium	0.0508	mg/L	0.0010	102	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Strontium	0.0493	mg/L	0.0010	98	85	115			
Thallium	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0487	mg/L	0.00030	97	85	115			
Zinc	0.0539	mg/L	0.0010	105	85	115			

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_44007
Sample ID: MB-44007	Method Blank				Run: SUB-B142124				01/21/10 14:42
Mercury	ND	mg/L	5E-05						
Sample ID: LCS-44007	Laboratory Control Sample				Run: SUB-B142124				01/21/10 14:44
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B10011137-001CMS	Sample Matrix Spike				Run: SUB-B142124				01/21/10 14:48
Mercury	0.0019	mg/L	0.0010	96	70	130			
Sample ID: B10011137-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-B142124				01/21/10 14:50
Mercury	0.0019	mg/L	0.0010	97	70	130	0.5	30	

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QA/QC Summary Report

Client: Powertech USA Inc
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Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R44459
Sample ID: LFB011910-10	Laboratory Fortified Blank				Run: DIONEX_100120A				01/20/10 16:17
Chloride	4.92	mg/L	0.50	98	90	110			
Fluoride	2.05	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.60	mg/L	0.10	104	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R10010180-001AMS	Sample Matrix Spike				Run: DIONEX_100120A				01/20/10 16:50
Chloride	107	mg/L	2.2	95	80	120			
Fluoride	41.9	mg/L	0.22	98	80	120			
Nitrogen, Nitrate as N	48.0	mg/L	0.50	96	80	120			
Nitrogen, Nitrite as N	53.3	mg/L	1.2	107	80	120			
Sulfate	754	mg/L	1.3	81	80	120			
Sample ID: R10010180-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_100120A				01/20/10 17:06
Chloride	108	mg/L	2.2	96	80	120	1	10	
Fluoride	42.3	mg/L	0.22	99	80	120	1.1	10	
Nitrogen, Nitrate as N	48.2	mg/L	0.50	96	80	120	0.5	10	
Nitrogen, Nitrite as N	53.5	mg/L	1.2	107	80	120	0.3	10	
Sulfate	757	mg/L	1.3	82	80	120	0.4	10	

Qualifiers:

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0827
Sample ID: MB-GrAB-0827	Method Blank				Run: SUB-C129405				02/05/10 11:47
Gross Alpha	-0.7	pCi/L							U
Gross Alpha precision (±)	0.8	pCi/L							
Gross Alpha MDC	0.9	pCi/L							
Gross Beta	-5	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0827	Laboratory Control Sample				Run: SUB-C129405				02/05/10 11:47
Gross Alpha	100	pCi/L		99	70	130			
Sample ID: Cs137-GrAB-0827	Laboratory Control Sample				Run: SUB-C129405				02/05/10 11:47
Gross Beta	74	pCi/L		87	70	130			
Sample ID: C10010313-009AMS	Sample Matrix Spike				Run: SUB-C129405				02/05/10 11:48
Gross Alpha	100	pCi/L		101	70	130			
Sample ID: C10010313-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129405				02/05/10 11:48
Gross Alpha	100	pCi/L		104	70	130	2.6	17	
Sample ID: C10010313-009AMS	Sample Matrix Spike				Run: SUB-C129405				02/05/10 11:48
Gross Beta	96	pCi/L		111	70	130			
Sample ID: C10010313-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129405				02/06/10 01:58
Gross Beta	88	pCi/L		102	70	130	8.7	16.4	

Qualifiers:

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Client: Powertech USA Inc
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Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R128951
Sample ID: LCS-R128951	Laboratory Control Sample				Run: SUB-C128951				01/23/10 20:28
Americium 241	730	pCi/L	20	83	70	130			
Barium 133	550	pCi/L	20	98	70	130			
Cesium 137	890	pCi/L	20	97	70	130			
Potassium 40	2700	pCi/L	20	82	70	130			
Sample ID: MB-R128951	Method Blank				Run: SUB-C128951				01/23/10 20:28
Gross Gamma	ND	pCi/L							U
Sample ID: R10010180-002H	Sample Duplicate				Run: SUB-C128951				01/23/10 20:28
Gross Gamma	830	pCi/L					1.3	30	
Gross Gamma precision (±)	130	pCi/L							

Qualifiers:

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QA/QC Summary Report

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Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-4321
Sample ID: C10010728-001DMS	Sample Matrix Spike				Run: SUB-C129197				02/02/10 12:51
Radium 226	18.2	pCi/L		91	70	130			
Sample ID: C10010728-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C129197				02/02/10 12:51
Radium 226	17.1	pCi/L		83	70	130	6.6	23.7	
Sample ID: MB-RA226-4321	Method Blank				Run: SUB-C129197				02/02/10 14:22
Radium 226	-0.07	pCi/L							U
Radium 226 precision (±)	0.09	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4321	Laboratory Control Sample				Run: SUB-C129197				02/02/10 14:22
Radium 226	9.1	pCi/L		117	70	130			
Method: E903.0									Batch: C_R129243
Sample ID: C10010546-012AMS	Sample Matrix Spike				Run: SUB-C129243				02/03/10 13:28
Radium 226	8.6	pCi/g-dry		113	70	130			
Sample ID: C10010546-012AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129243				02/03/10 13:28
Radium 226	8.0	pCi/g-dry		102	70	130	7.5	24.2	
Sample ID: LCS-25024	Laboratory Control Sample				Run: SUB-C129243				02/03/10 13:28
Radium 226	1.7	pCi/g-dry		112	70	130			
Sample ID: MB-25024	Method Blank				Run: SUB-C129243				02/03/10 13:28
Radium 226	-0.0003	pCi/g-dry							U
Radium 226 precision (±)	0.0002	pCi/g-dry							
Radium 226 MDC	0.0004	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-1079
Sample ID: LCS-RA-TH-ISO-1079	Laboratory Control Sample				Run: SUB-C129046				01/26/10 09:42
Thorium 230	5.2	pCi/L		94	70	130			
Sample ID: C10010532-002AMS	Sample Matrix Spike				Run: SUB-C129046				01/26/10 09:42
Thorium 230	11	pCi/L		87	70	130			
Sample ID: C10010532-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129046				01/26/10 09:42
Thorium 230	14	pCi/L		108	70	130	22	44.5	
Sample ID: MB-RA-TH-ISO-1079	Method Blank				Run: SUB-C129046				01/26/10 09:42
Thorium 230	0.02	pCi/L							U
Thorium 230 MDC	0.1	pCi/L							
Thorium 230 precision (±)	0.07	pCi/L							
Method: E907.0									Batch: C_R129307
Sample ID: LCS-25076	Laboratory Control Sample				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.8	pCi/L		120	70	130			
Sample ID: MB-25076	Method Blank				Run: SUB-C129307				02/02/10 15:49
Thorium 230	-0.1	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.10	pCi/L							
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.2	pCi/L		101	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.9	pCi/L		114	70	130	14	35.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_PB-210-0652
Sample ID: C09071013-004DMS	Sample Matrix Spike				Run: SUB-C129676				02/09/10 11:19
Lead 210	220	pCi/L		95	70	130			
Sample ID: C09071013-004DMSD	Sample Matrix Spike Duplicate				Run: SUB-C129676				02/09/10 11:19
Lead 210	260	pCi/L		118	70	130	21	17.3	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-PB-210-0652	Method Blank				Run: SUB-C129676				02/09/10 11:19
Lead 210	0.4	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	6	pCi/L							
Sample ID: LCS-PB-210-0652	Laboratory Control Sample				Run: SUB-C129676				02/09/10 11:19
Lead 210	120	pCi/L		103	70	130			
Method: E909.0M									Batch: C_25076
Sample ID: C10010532-003DMS	Sample Matrix Spike				Run: SUB-C129677				02/09/10 11:19
Lead 210	93	pCi/L		98	70	130			
Sample ID: C10010532-003DMSD	Sample Matrix Spike Duplicate				Run: SUB-C129677				02/09/10 11:19
Lead 210	98	pCi/L		104	70	130	5.8	16.6	
Sample ID: MB-25076	Method Blank				Run: SUB-C129677				02/09/10 11:19
Lead 210	5	pCi/L							U
Lead 210 precision (±)	10	pCi/L							
Lead 210 MDC	20	pCi/L							
Sample ID: LCS-25076	Laboratory Control Sample				Run: SUB-C129677				02/09/10 11:19
Lead 210	490	pCi/L		86	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0									Batch: C_PO210-0281
Sample ID: C10020209-003DMS	Sample Matrix Spike				Run: SUB-C129833				02/17/10 15:45
Polonium 210	33	pCi/L		100	70	130			
Sample ID: C10020209-003DMSD	Sample Matrix Spike Duplicate				Run: SUB-C129833				02/17/10 15:45
Polonium 210	34	pCi/L		104	70	130	4.2	55.8	
Sample ID: LCS-PO210-0281	Method Blank				Run: SUB-C129833				02/19/10 08:46
Polonium 210	0.10	pCi/L							U
Polonium 210 MDC	0.8	pCi/L							
Polonium 210 precision (±)	0.4	pCi/L							
Sample ID: MB-PO210-0281	Laboratory Control Sample				Run: SUB-C129833				02/19/10 08:46
Polonium 210	13	pCi/L		78	70	130			
Method: E912.0									Batch: C_R129834
Sample ID: LCS-25076	Laboratory Control Sample				Run: SUB-C129834				02/17/10 08:48
Polonium 210	95	pCi/L		120	70	130			
Sample ID: MB-25076	Method Blank				Run: SUB-C129834				02/17/10 08:48
Polonium 210	0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							
Sample ID: C10020209-003EMS	Sample Matrix Spike				Run: SUB-C129834				02/17/10 11:59
Polonium 210	25	pCi/L		120	70	130			
Sample ID: C10020209-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-C129834				02/17/10 11:59
Polonium 210	19	pCi/L		91	70	130	27	61.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A								Analytical Run: SUB-B142124	
Sample ID: QCS	Initial Calibration Verification Standard							01/21/10 14:35	
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

ENERGY

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Environmental	Project Name, PWS, Permit, Etc.: PowerTech, Inc.	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print) Allen Scott
Invoice Address: Powertech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI 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

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Solid/Solids Vegetation Bioassay Other)	As Per Quote	SEE ATTACHED	Normal Turnaround (TAT)
1	DD-09-21-01	1-18-10		water			
2	DD-09-21-02	1-18-10		water			
3							
4							
5							
6							
7							
8							
9							
10							

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 6.6 °C

On Ice: Yes No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

LABORATORY USE ONLY R1001080-001 002

Custody Record MUST be Signed							
	Relinquished by (print): Allen Scott	Date/Time: 1-19-10 10:24	Signature:	Received by (print):	Date/Time:	Signature:	
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:	
	Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Fronland	Date/Time: 1-19-10 10:24	Signature: Steve Fronland	

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 10, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10020266

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 2/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10020266-001	DB-09-21-01	02/22/10 0:00	02/23/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10020266-002	DB-09-21-02	02/22/10 0:00	02/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by Linda Larson
Date: 2010.09.10 10:34:07 -06:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10020266

Revised Date: 09/10/10
Report Date: 03/29/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.
Comments imported for SUBBED Workorder: C10020811
PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10020811

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.

This report is being re-issued due to a change in the report that was made following the original issuance of the report. The reason for this re-issuance is due to the following.
- The Gross Gamma was re-reported

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.

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

Revised Date: 09/10/10
Client: Powertech USA Inc
Report Date: 03/29/10
Project: Dewey Groundwater Sampling
Collection Date: 02/22/10
Lab ID: R10020266-001
Date Received: 02/23/10
Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	36	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Bicarbonate as HCO3	39	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Calcium	54	mg/L	D	1		5	E200.7	03/04/10 18:59/eli-c
Chloride	7.2	mg/L		0.5		1	E300.0	02/23/10 20:06/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Magnesium	22.5	mg/L		0.5		5	E200.7	03/04/10 18:59/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/26/10 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Potassium	12.9	mg/L		0.5		5	E200.7	03/04/10 18:59/eli-c
Sodium	162	mg/L	D	1		5	E200.7	03/04/10 18:59/eli-c
Sulfate	495	mg/L		1		20	E300.0	02/23/10 19:50/jmh
Silica	7.8	mg/L		0.2		5	E200.7	03/04/10 18:59/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	03/02/10 15:46/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	03/01/10 15:00/jmh
pH	9.34	s.u.		0.01		1	A4500-H B	02/25/10 10:14/tb
Sodium Adsorption Ratio (SAR)	4.7	unitless		0.10		1	Calculation	03/19/10 08:36/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5		1	A2540 C	02/25/10 15:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/04/10 18:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 21:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 21:33/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/04/10 18:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/26/10 21:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 21:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/10 15:28/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c

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

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Client: Powertech USA Inc
Report Date: 03/29/10
Project: Dewey Groundwater Sampling
Collection Date: 02/22/10
Lab ID: R10020266-001
Date Received: 02/23/10
Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/26/10 21:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 21:33/eli-c
METALS - SUSPENDED								
Uranium	0.0015	mg/L	B	0.0003		1	E200.8	03/06/10 00:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/10 13:50/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/10 15:50/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1.1	pCi/L	U			1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha precision (±)	2.3	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha MDC	3.8	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta	6.7	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta MDC	3.6	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Lead 210	-0.1	pCi/L	U			1	E909.0M	03/12/10 08:14/eli-c
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	03/12/10 08:14/eli-c
Lead 210 MDC	1.3	pCi/L				1	E909.0M	03/12/10 08:14/eli-c
Polonium 210	0.050	pCi/L	U			1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 MDC	0.38	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 precision (±)	0.19	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Radium 226	0.8	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Thorium 230	0.01	pCi/L	U			1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Gross Gamma	ND	pCi/L		20		1	E901.1	02/26/10 17:33/eli-ca
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/26/10 17:33/eli-ca
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	03/23/10 07:42/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Polonium 210	0.069	pCi/L	U			1	E912.0	03/15/10 12:17/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	03/15/10 12:17/eli-ca

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.
B - The analyte was detected in the method blank.

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-001
Client Sample ID: DB-09-21-01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.53	pCi/L				1	E912.0	03/15/10 12:17/eli-ca
Radium 226	0.03	pCi/L	U			1	E903.0	03/09/10 17:27/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Thorium 230	-0.07	pCi/L	U			1	E907.0	03/09/10 13:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/09/10 13:24/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	ND	pCi/L		100		1	D5072-92	02/24/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/26/10 22:21/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/26/10 22:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 22:21/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/26/10 22:21/eli-c
Boron	ND	mg/L		0.1		5	E200.8	03/02/10 22:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 22:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 22:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 22:21/eli-c
Iron	ND	mg/L		0.03		5	E200.8	03/02/10 22:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 22:21/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/26/10 22:21/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/25/10 15:01/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 22:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 22:21/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/26/10 22:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 22:21/eli-c
Strontium	2.2	mg/L		0.1		1	E200.8	02/26/10 22:21/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/26/10 22:21/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/26/10 22:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 22:21/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.90	%				1	A1030 E	03/22/10 00:00/jmh
Anions	11.2	meq/L				1	A1030 E	03/22/10 00:00/jmh
Cations	11.9	meq/L				1	A1030 E	03/22/10 00:00/jmh
Solids, Total Dissolved Calculated	1130	mg/L				1	A1030 E	03/22/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	03/22/10 00:00/jmh

Report Definitions:
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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

Revised Date: 09/10/10
Client: Powertech USA Inc
Report Date: 03/29/10
Project: Dewey Groundwater Sampling
Collection Date: 02/22/10
Lab ID: R10020266-002
Date Received: 02/23/10
Client Sample ID: DB-09-21-02
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	190	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Bicarbonate as HCO3	232	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Calcium	166	mg/L	D	1		5	E200.7	03/04/10 19:23/eli-c
Chloride	9.9	mg/L		0.5		1	E300.0	02/23/10 20:39/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Magnesium	48.0	mg/L		0.5		5	E200.7	03/04/10 19:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/26/10 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Potassium	12.3	mg/L		0.5		5	E200.7	03/04/10 19:23/eli-c
Sodium	126	mg/L	D	1		5	E200.7	03/04/10 19:23/eli-c
Sulfate	677	mg/L		1		20	E300.0	02/23/10 20:23/jmh
Silica	8.8	mg/L		0.2		5	E200.7	03/04/10 19:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1160	umhos/cm		5.0		1	A2510 B	03/02/10 15:50/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	03/01/10 15:00/jmh
pH	7.57	s.u.		0.01		1	A4500-H B	02/25/10 10:17/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	03/19/10 08:36/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	02/25/10 15:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/04/10 19:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 22:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/04/10 19:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Manganese	0.48	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 22:48/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/10 15:31/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c

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

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0079	mg/L		0.0003		1	E200.8	02/26/10 22:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
METALS - SUSPENDED								
Uranium	0.0011	mg/L	B	0.0003		1	E200.8	03/06/10 00:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/10 13:53/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/10 15:50/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	37.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha MDC	6.1	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta	27.5	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta MDC	5.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Lead 210	-0.1	pCi/L	U			1	E909.0M	03/12/10 10:16/eli-c
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	03/12/10 10:16/eli-c
Lead 210 MDC	1.3	pCi/L				1	E909.0M	03/12/10 10:16/eli-c
Polonium 210	0.23	pCi/L	U			1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 MDC	0.64	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 precision (±)	0.39	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Radium 226	2.3	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Thorium 230	-0.01	pCi/L	U			1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Gross Gamma	ND	pCi/L		20		1	E901.1	02/26/10 17:33/eli-ca
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/26/10 17:33/eli-ca
RADIONUCLIDES - SUSPENDED								
Lead 210	0.3	pCi/L	U			1	E909.0M	03/23/10 07:42/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Polonium 210	-0.096	pCi/L	U			1	E912.0	03/15/10 12:17/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	03/15/10 12:17/eli-ca

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.
B - The analyte was detected in the method blank.

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.73	pCi/L				1	E912.0	03/15/10 12:17/eli-ca
Radium 226	0.07	pCi/L	U			1	E903.0	03/09/10 17:27/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Thorium 230	-0.07	pCi/L	U			1	E907.0	03/09/10 13:24/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	03/09/10 13:24/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	313	pCi/L		100		1	D5072-92	02/24/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/26/10 22:55/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Boron	ND	mg/L		0.1		5	E200.8	03/02/10 22:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 22:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 22:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
Iron	0.07	mg/L		0.03		5	E200.8	03/02/10 22:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Manganese	0.50	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/25/10 15:03/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 22:55/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 22:55/eli-c
Strontium	2.5	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Uranium	0.0080	mg/L		0.0003		1	E200.8	02/26/10 22:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.440	%				1	A1030 E	03/22/10 00:00/jmh
Anions	18.2	meq/L				1	A1030 E	03/22/10 00:00/jmh
Cations	18.0	meq/L				1	A1030 E	03/22/10 00:00/jmh
Solids, Total Dissolved Calculated	1540	mg/L				1	A1030 E	03/22/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	03/22/10 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

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100301A-ALK-SEL-W	
Sample ID: LCS1_100301A	Laboratory Control Sample				Run: PH_COND1-R_100301A			03/01/10 11:16	
Alkalinity, Total as CaCO3	956	mg/L	5.0	96	90	110			
Sample ID: MBLK1_100301A	Method Blank				Run: PH_COND1-R_100301A			03/01/10 11:18	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R10020303-004BMS	Sample Matrix Spike				Run: PH_COND1-R_100301A			03/01/10 14:40	
Alkalinity, Total as CaCO3	1330	mg/L	6.1	96	80	120			
Sample ID: R10020303-004BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_100301A			03/01/10 14:55	
Alkalinity, Total as CaCO3	1340	mg/L	6.1	100	80	120	0.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100302_1_COND-PROBE-W	
Sample ID: LCS1-1_100302	Laboratory Control Sample				Run: PH_COND2-R_100302B			03/02/10 15:36	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100302	Laboratory Control Sample				Run: PH_COND2-R_100302B			03/02/10 15:38	
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100302	Method Blank				Run: PH_COND2-R_100302B			03/02/10 15:42	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: LCS_COND-1_100302	Laboratory Control Sample				Run: PH_COND2-R_100302B			03/02/10 15:44	
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: R10020266-001ADUP	Sample Duplicate				Run: PH_COND2-R_100302B			03/02/10 15:48	
Conductivity @ 25 C	1570	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100225A-SLDS-TDS-W	
Sample ID: LCS1_100225A	Laboratory Control Sample				Run: BAL-4-R_100225A			02/25/10 15:58	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	10	106	90	110			
Sample ID: MBLK1_100225A	Method Blank				Run: BAL-4-R_100225A			02/25/10 15:58	
Solids, Total Dissolved TDS @ 180 C	6	mg/L	5						
Sample ID: R10020306-002DMS	Sample Matrix Spike				Run: BAL-4-R_100225A			02/25/10 16:05	
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	10	100	80	120			
Sample ID: R10020306-002DMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_100225A			02/25/10 16:05	
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	10	99	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100301-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND2-R_100301A			03/01/10 15:00	
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R10020266-001F	Sample Duplicate				Run: PH_COND2-R_100301A			03/01/10 15:00	
Oxidation-Reduction Potential	220	mV					2.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Analytical Run: SUB-C130009	
Sample ID: As/Se 1.0ppm-Q 02231	Initial Calibration Verification Standard							02/25/10 13:36	
Selenium-IV	0.051	mg/L	0.0010	103	90	110			
Method: A3114 B								Batch: C_SE3114-100225A	
Sample ID: MBLK	Method Blank				Run: SUB-C130009			02/25/10 13:42	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02231	Laboratory Control Sample				Run: SUB-C130009			02/25/10 13:45	
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: R10020266-002E	Sample Matrix Spike				Run: SUB-C130009			02/25/10 13:57	
Selenium-IV	0.048	mg/L	0.0010	97	85	115			
Sample ID: R10020266-002E	Sample Matrix Spike Duplicate				Run: SUB-C130009			02/25/10 14:00	
Selenium-IV	0.050	mg/L	0.0010	99	85	115	2.4	10	
Method: A3114 B								Analytical Run: SUB-C130017	
Sample ID: As/Se 1.0ppm-Q 02231	Initial Calibration Verification Standard							02/25/10 15:14	
Selenium	0.053	mg/L	0.0010	106	90	110			
Method: A3114 B								Batch: C_SE3114-100225B	
Sample ID: MBLK	Method Blank				Run: SUB-C130017			02/25/10 15:21	
Selenium	0.0005	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 02231	Laboratory Control Sample				Run: SUB-C130017			02/25/10 15:24	
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R10020266-002E	Sample Matrix Spike				Run: SUB-C130017			02/25/10 15:33	
Selenium	0.049	mg/L	0.0010	96	85	115			
Sample ID: R10020266-002E	Sample Matrix Spike Duplicate				Run: SUB-C130017			02/25/10 15:35	
Selenium	0.049	mg/L	0.0010	97	85	115	0.6	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Client: Powertech USA Inc **Report Date:** 03/29/10
Project: Dewey Groundwater Sampling **Work Order:** R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100225_1_PH-W
Sample ID: LCS_pH-1_100225	Laboratory Control Sample				Run: PH_COND2-R_100225A				02/25/10 10:02
pH	7.23	s.u.	0.010	98	98.55	101.45			
Sample ID: R10020245-001ADUP	Sample Duplicate				Run: PH_COND2-R_100225A				02/25/10 10:10
pH	6.49	s.u.	0.010				0.2	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-02-26_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_100226A			02/26/10 11:00	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_100226A			02/26/10 11:01	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	90	110			
Sample ID: R10020231-002CMS	Sample Matrix Spike				Run: TECHAA2-R_100226A			02/26/10 13:56	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	90	80	120			
Sample ID: R10020231-002CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_100226A			02/26/10 13:58	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	93	80	120	3.1	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C130316
Sample ID: ICV	Initial Calibration Verification Standard								03/04/10 10:01
Silicon	5.1	mg/L	0.0073	102	95	105			
Boron	2.5	mg/L	0.10	101	95	105			
Calcium	25	mg/L	0.50	100	95	105			
Iron	2.5	mg/L	0.030	99	95	105			
Magnesium	25	mg/L	0.50	98	95	105			
Potassium	25	mg/L	0.50	99	95	105			
Sodium	25	mg/L	0.50	99	95	105			
Sample ID: ICSA	Interference Check Sample A								03/04/10 10:17
Silicon	0.0039	mg/L	0.0073		0	0			
Boron	0.45	mg/L	0.10		0	0			
Calcium	490	mg/L	0.50	97	90	110			
Iron	180	mg/L	0.030	91	90	110			
Magnesium	510	mg/L	0.50	102	90	110			
Potassium	-0.0012	mg/L	0.50		0	0			
Sodium	0.13	mg/L	0.50		0	0			
Sample ID: ICSAB	Interference Check Sample AB								03/04/10 10:21
Silicon	0.0025	mg/L	0.0073		0	0			
Boron	0.034	mg/L	0.10		0	0			
Calcium	490	mg/L	0.50	98	90	110			
Iron	200	mg/L	0.11	99	90	110			
Magnesium	510	mg/L	0.50	102	90	110			
Potassium	0.00040	mg/L	0.50		0	0			
Sodium	0.025	mg/L	0.50		0	0			
Method: E200.7									Batch: C_R130316
Sample ID: MB-100304A	Method Blank				Run: SUB-C130316				03/04/10 10:45
Silicon	ND	mg/L	0.007						
Boron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100304A	Laboratory Fortified Blank				Run: SUB-C130316				03/04/10 10:49
Silicon	0.45	mg/L	0.0075	95	85	115			
Boron	0.98	mg/L	0.10	98	85	115			
Calcium	49	mg/L	0.50	98	85	115			
Iron	0.96	mg/L	0.030	96	85	115			
Magnesium	48	mg/L	0.50	97	85	115			
Potassium	45	mg/L	0.50	90	85	115			
Sodium	49	mg/L	0.50	98	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R130316
Sample ID: LFB-100304A	Laboratory Fortified Blank				Run: SUB-C130316				03/04/10 10:49
Sample ID: R10020266-001C	Sample Matrix Spike				Run: SUB-C130316				03/04/10 19:03
Boron	5.24	mg/L	0.10	103	70	130			
Iron	5.09	mg/L	0.030	100	70	130			
Silicon	6.00	mg/L	0.10	117	70	130			
Calcium	306	mg/L	1.1	99	70	130			
Magnesium	268	mg/L	1.0	96	70	130			
Potassium	254	mg/L	1.0	95	70	130			
Sodium	414	mg/L	1.4	99	70	130			
Sample ID: R10020266-001C	Sample Matrix Spike Duplicate				Run: SUB-C130316				03/04/10 19:07
Boron	5.24	mg/L	0.10	103	70	130	0	20	
Iron	4.90	mg/L	0.030	96	70	130	4	20	
Silicon	5.74	mg/L	0.10	104	70	130	4.5	20	
Calcium	299	mg/L	1.1	96	70	130	2.2	20	
Magnesium	262	mg/L	1.0	94	70	130	2.3	20	
Potassium	251	mg/L	1.0	93	70	130	1.2	20	
Sodium	416	mg/L	1.4	100	70	130	0.5	20	

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C130108	
Sample ID: ICV	Initial Calibration Verification Standard							02/26/10 13:18	
Aluminum	0.0499	mg/L	0.0022	100	90	110			
Antimony	0.0507	mg/L	0.0010	101	90	110			
Arsenic	0.0501	mg/L	0.0010	100	90	110			
Barium	0.0511	mg/L	0.0010	102	90	110			
Beryllium	0.0506	mg/L	0.0010	101	90	110			
Cadmium	0.0510	mg/L	0.0010	102	90	110			
Chromium	0.0505	mg/L	0.0010	101	90	110			
Copper	0.0508	mg/L	0.0010	102	90	110			
Lead	0.0499	mg/L	0.0010	100	90	110			
Manganese	0.0502	mg/L	0.0010	100	90	110			
Mercury	0.00531	mg/L	0.0010	106	90	110			
Molybdenum	0.0520	mg/L	0.0010	104	90	110			
Nickel	0.0501	mg/L	0.0010	100	90	110			
Selenium	0.248	mg/L	0.0014	99	90	110			
Silver	0.0531	mg/L	0.0010	106	90	110			
Strontium	0.0499	mg/L	0.0010	100	90	110			
Thallium	0.0497	mg/L	0.0010	99	90	110			
Thorium 232	0.0460	mg/L	0.0010	92	90	110			
Uranium	0.0516	mg/L	0.00030	103	90	110			
Vanadium	0.0495	mg/L	0.0010	99	90	110			
Zinc	0.0509	mg/L	0.0010	102	90	110			
Sample ID: ICSA	Interference Check Sample A							02/26/10 13:25	
Aluminum	0.984	mg/L	0.0022	98	80	120			
Antimony	0.000493	mg/L	0.0010		0	0			
Arsenic	2.49E-05	mg/L	0.0010		0	0			
Barium	3.10E-05	mg/L	0.0010		0	0			
Beryllium	3.80E-06	mg/L	0.0010		0	0			
Cadmium	1.67E-05	mg/L	0.0010		0	0			
Chromium	2.08E-05	mg/L	0.0010		0	0			
Copper	-0.000225	mg/L	0.0010		0	0			
Lead	7.90E-06	mg/L	0.0010		0	0			
Manganese	3.49E-05	mg/L	0.0010		0	0			
Mercury	6.41E-05	mg/L	0.0010		0	0			
Molybdenum	0.0202	mg/L	0.0010	101	80	120			
Nickel	4.50E-06	mg/L	0.0010		0	0			
Selenium	0.000143	mg/L	0.0014		0	0			
Silver	0.000386	mg/L	0.0010		0	0			
Strontium	2.80E-05	mg/L	0.0010		0	0			
Thallium	1.74E-05	mg/L	0.0010		0	0			
Thorium 232	0.000874	mg/L	0.0010		0	0			
Uranium	7.10E-06	mg/L	0.00030		0	0			
Vanadium	1.01E-05	mg/L	0.0010		0	0			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C130108	
Sample ID: ICSA	Interference Check Sample A							02/26/10 13:25	
Zinc	0.000202	mg/L	0.0010		0	0			
Sample ID: ICSAB	Interference Check Sample AB							02/26/10 13:31	
Aluminum	0.984	mg/L	0.0022	98	70	130			
Antimony	0.000126	mg/L	0.0010		0	0			
Arsenic	0.0104	mg/L	0.0010	104	70	130			
Barium	5.51E-05	mg/L	0.0010		0	0			
Beryllium	1.30E-05	mg/L	0.0010		0	0			
Cadmium	0.0103	mg/L	0.0010	103	70	130			
Chromium	0.0103	mg/L	0.0010	103	70	130			
Copper	0.0101	mg/L	0.0010	101	70	130			
Lead	1.36E-05	mg/L	0.0010		0	0			
Manganese	0.0101	mg/L	0.0010	101	70	130			
Mercury	2.40E-05	mg/L	0.0010		0	0			
Molybdenum	0.0206	mg/L	0.0010	103	70	130			
Nickel	0.0101	mg/L	0.0010	101	70	130			
Selenium	0.000145	mg/L	0.0014		0	0			
Silver	0.00991	mg/L	0.0010	99	70	130			
Strontium	3.83E-05	mg/L	0.0010		0	0			
Thallium	6.00E-06	mg/L	0.0010		0	0			
Thorium 232	0.000331	mg/L	0.0010		0	0			
Uranium	1.00E-07	mg/L	0.00030		0	0			
Vanadium	-0.000193	mg/L	0.0010		0	0			
Zinc	0.0104	mg/L	0.0010	104	70	130			
Method: E200.8								Batch: C_R130108	
Sample ID: LRB	Method Blank				Run: SUB-C130108			02/26/10 14:05	
Aluminum	ND	mg/L	0.002						
Antimony	ND	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Selenium	ND	mg/L	0.001						
Silver	0.0002	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130108
Sample ID: LRB	Method Blank				Run: SUB-C130108				02/26/10 14:05
Thallium	ND	mg/L	3E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	0.0009	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130108				02/26/10 14:12
Aluminum	0.0519	mg/L	0.0022	104	85	115			
Antimony	0.0546	mg/L	0.0010	109	85	115			
Arsenic	0.0540	mg/L	0.0010	108	85	115			
Barium	0.0550	mg/L	0.0010	110	85	115			
Beryllium	0.0524	mg/L	0.0010	105	85	115			
Cadmium	0.0537	mg/L	0.0010	107	85	115			
Chromium	0.0526	mg/L	0.0010	105	85	115			
Copper	0.0511	mg/L	0.0010	102	85	115			
Lead	0.0534	mg/L	0.0010	107	85	115			
Manganese	0.0522	mg/L	0.0010	104	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Molybdenum	0.0553	mg/L	0.0010	111	85	115			
Nickel	0.0522	mg/L	0.0010	104	85	115			
Selenium	0.0529	mg/L	0.0014	106	85	115			
Silver	0.0203	mg/L	0.0010	100	85	115			
Strontium	0.0530	mg/L	0.0010	106	85	115			
Thallium	0.0532	mg/L	0.0010	106	85	115			
Thorium 232	0.0565	mg/L	0.0010	113	85	115			
Uranium	0.0547	mg/L	0.00030	109	85	115			
Vanadium	0.0526	mg/L	0.0010	105	85	115			
Zinc	0.0543	mg/L	0.0010	107	85	115			
Sample ID: R10020266-001C	Post Digestion Spike				Run: SUB-C130108				02/26/10 21:40
Aluminum	0.0532	mg/L	0.10	102	70	130			
Arsenic	0.0518	mg/L	0.0010	102	70	130			
Barium	0.0808	mg/L	0.10	107	70	130			
Cadmium	0.0514	mg/L	0.010	103	70	130			
Chromium	0.0509	mg/L	0.050	102	70	130			
Copper	0.0484	mg/L	0.010	94	70	130			
Lead	0.0524	mg/L	0.050	105	70	130			
Manganese	0.0575	mg/L	0.010	100	70	130			
Mercury	0.00536	mg/L	0.0010	107	70	130			
Molybdenum	0.0568	mg/L	0.10	109	70	130			
Nickel	0.0478	mg/L	0.050	96	70	130			
Silver	0.0186	mg/L	0.010	93	70	130			
Thorium 232	0.0569	mg/L	0.0010	114	70	130			
Uranium	0.0551	mg/L	0.00030	110	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R130108	
Sample ID: R10020266-001C	Post Digestion Spike				Run: SUB-C130108			02/26/10 21:40	
Vanadium	0.0518	mg/L	0.10	103	70	130			
Zinc	0.0511	mg/L	0.010	96	70	130			
Sample ID: R10020266-001C	Post Digestion Spike Duplicate				Run: SUB-C130108			02/26/10 21:47	
Aluminum	0.0530	mg/L	0.0010	101	70	130	0.5	20	
Arsenic	0.0519	mg/L	0.0010	103	70	130	0.3	20	
Barium	0.0802	mg/L	0.0010	105	70	130	0.7	20	
Cadmium	0.0514	mg/L	0.010	103	70	130	0	20	
Chromium	0.0508	mg/L	0.050	101	70	130	0.2	20	
Copper	0.0489	mg/L	0.010	95	70	130	1	20	
Lead	0.0524	mg/L	0.050	105	70	130	0	20	
Manganese	0.0574	mg/L	0.010	100	70	130	0.1	20	
Mercury	0.00538	mg/L	0.0010	107	70	130	0.3	20	
Molybdenum	0.0570	mg/L	0.0010	109	70	130	0.4	20	
Nickel	0.0476	mg/L	0.0010	95	70	130	0.4	20	
Silver	0.0189	mg/L	0.010	95	70	130	1.6	20	
Thorium 232	0.0574	mg/L	0.0010	115	70	130	0.8	20	
Uranium	0.0558	mg/L	0.00030	112	70	130	1.3	20	
Vanadium	0.0519	mg/L	0.0010	104	70	130	0.2	20	
Zinc	0.0511	mg/L	0.010	96	70	130	0	20	
Sample ID: R10020266-001D	Post Digestion Spike				Run: SUB-C130108			02/26/10 22:28	
Antimony	0.0571	mg/L	0.050	114	70	130			
Arsenic	0.0518	mg/L	0.0010	104	70	130			
Barium	0.0810	mg/L	0.0010	106	70	130			
Beryllium	0.0494	mg/L	0.010	99	70	130			
Cadmium	0.0513	mg/L	0.010	103	70	130			
Chromium	0.0505	mg/L	0.050	101	70	130			
Copper	0.0478	mg/L	0.010	94	70	130			
Lead	0.0524	mg/L	0.050	104	70	130			
Manganese	0.0550	mg/L	0.010	99	70	130			
Molybdenum	0.0548	mg/L	0.0010	105	70	130			
Nickel	0.0470	mg/L	0.0010	93	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Silver	0.0189	mg/L	0.010	95	70	130			
Strontium	2.28	mg/L	0.10		70	130			A
Thallium	0.0515	mg/L	0.0010	103	70	130			
Uranium	0.0551	mg/L	0.00030	110	70	130			
Zinc	0.0498	mg/L	0.010	95	70	130			
Sample ID: R10020266-001D	Post Digestion Spike Duplicate				Run: SUB-C130108			02/26/10 22:34	
Antimony	0.0572	mg/L	0.050	114	70	130	0.2	20	
Arsenic	0.0525	mg/L	0.0010	105	70	130	1.3	20	
Barium	0.0808	mg/L	0.0010	106	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R130108	
Sample ID: R10020266-001D	Post Digestion Spike Duplicate				Run: SUB-C130108			02/26/10 22:34	
Beryllium	0.0490	mg/L	0.010	98	70	130	0.9	20	
Cadmium	0.0509	mg/L	0.010	102	70	130	0.8	20	
Chromium	0.0504	mg/L	0.050	101	70	130	0	20	
Copper	0.0482	mg/L	0.010	95	70	130	0.9	20	
Lead	0.0518	mg/L	0.050	103	70	130	1.1	20	
Manganese	0.0548	mg/L	0.010	99	70	130	0.3	20	
Molybdenum	0.0546	mg/L	0.0010	105	70	130	0.3	20	
Nickel	0.0472	mg/L	0.0010	93	70	130	0.2	20	
Selenium	0.0512	mg/L	0.0010	102	70	130	0.5	20	
Silver	0.0187	mg/L	0.010	94	70	130	0.9	20	
Strontium	2.28	mg/L	0.10		70	130	0.1	20	A
Thallium	0.0512	mg/L	0.0010	102	70	130	0.7	20	
Uranium	0.0548	mg/L	0.00030	110	70	130	0.6	20	
Zinc	0.0505	mg/L	0.010	97	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C130212	
Sample ID: ICV	Initial Calibration Verification Standard							03/02/10 14:47	
Boron	0.0542	mg/L	0.0010	108	90	110			
Iron	1.04	mg/L	0.0010	104	90	110			
Sample ID: ICSA	Interference Check Sample A							03/02/10 14:54	
Boron	0.000960	mg/L	0.0010		0	0			
Iron	1.01	mg/L	0.0010	101	80	120			
Sample ID: ICSAB	Interference Check Sample AB							03/02/10 15:00	
Boron	0.000509	mg/L	0.0010		0	0			
Iron	1.01	mg/L	0.0010	101	70	130			
Method: E200.8								Batch: C_R130212	
Sample ID: LRB	Method Blank				Run: SUB-C130212			03/02/10 15:35	
Boron	ND	mg/L	0.0004						
Iron	ND	mg/L	0.0006						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130212			03/02/10 15:48	
Boron	0.0519	mg/L	0.0010	104	85	115			
Iron	1.30	mg/L	0.0010	104	85	115			
Sample ID: C10020843-003CMS4	Post Digestion Spike				Run: SUB-C130212			03/03/10 10:45	
Boron	0.113	mg/L	0.10	100	70	130			
Iron	1.27	mg/L	0.030	99	70	130			
Sample ID: C10020843-003CMSD4	Post Digestion Spike Duplicate				Run: SUB-C130212			03/03/10 10:52	
Boron	0.112	mg/L	0.10	97	70	130	1.5	20	
Iron	1.27	mg/L	0.030	99	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C130368	
Sample ID: ICV	Initial Calibration Verification Standard							03/05/10 12:06	
Uranium	0.0508	mg/L	0.00030	102	90	110			
Method: E200.8								Batch: C_25430	
Sample ID: MB-25430	Method Blank				Run: SUB-C130368			03/06/10 00:19	
Uranium	0.001	mg/L	6E-05						
Sample ID: LCS2-25430	Laboratory Control Sample				Run: SUB-C130368			03/06/10 00:24	
Uranium	0.123	mg/L	0.00030	121	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since this there is no remaining filter to re-process, and the remainder of the run QA is within acceptance range, this batch is approved.									
Sample ID: R10020266-002I	Post Digestion Spike				Run: SUB-C130368			03/06/10 00:40	
Uranium	0.0540	mg/L	0.00030	106	70	130			
Sample ID: R10020266-002I	Post Digestion Spike Duplicate				Run: SUB-C130368			03/06/10 00:45	
Uranium	0.0531	mg/L	0.00030	104	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B143772	
Sample ID: QCS	Initial Calibration Verification Standard							02/25/10 14:37	
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E245.1								Batch: B_44724	
Sample ID: MB-44724	Method Blank				Run: SUB-B143772			02/25/10 14:47	
Mercury	ND	mg/L	5E-05						
Sample ID: LCS-44724	Laboratory Control Sample				Run: SUB-B143772			02/25/10 14:50	
Mercury	0.0018	mg/L	0.0010	91	85	115			
Sample ID: R10020236-005A	Sample Matrix Spike				Run: SUB-B143772			02/25/10 14:54	
Mercury	0.0016	mg/L	0.0010	80	70	130			
Sample ID: R10020236-005A	Sample Matrix Spike Duplicate				Run: SUB-B143772			02/25/10 14:57	
Mercury	0.0017	mg/L	0.0010	82	70	130	2.4	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R44872
Sample ID: LFB022310-10	Laboratory Fortified Blank				Run: DIONEX_100224A				02/23/10 18:28
Chloride	4.68	mg/L	0.50	94	90	110			
Fluoride	1.98	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R10020252-001AMS	Sample Matrix Spike				Run: DIONEX_100224A				02/23/10 19:17
Chloride	24.0	mg/L	0.50		80	120			A
Fluoride	2.10	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	90	80	120			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	29.7	mg/L	1.0	81	80	120			
Sample ID: R10020252-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_100224A				02/23/10 19:33
Chloride	24.1	mg/L	0.50		80	120	0.5	10	A
Fluoride	2.11	mg/L	0.10	94	80	120	0.4	10	
Nitrogen, Nitrate as N	2.52	mg/L	0.10	90	80	120	0.1	10	
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	80	120	0.5	10	
Sulfate	29.8	mg/L	1.0	81	80	120	0.3	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0854
Sample ID: MB-GrAB-0854	Method Blank				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	-0.6	pCi/L							U
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.7	pCi/L							
Gross Beta	0.2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0854	Laboratory Control Sample				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	100	pCi/L		99	70	130			
Sample ID: Cs137-GrAB-0854	Laboratory Control Sample				Run: SUB-C130382				03/04/10 03:14
Gross Beta	85	pCi/L		94	70	130			
Sample ID: C10020552-001DMS	Sample Matrix Spike				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	210	pCi/L		101	70	130			
Sample ID: C10020552-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	170	pCi/L		67	70	130	18	20	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: C10020552-001DMS	Sample Matrix Spike				Run: SUB-C130382				03/04/10 03:14
Gross Beta	130	pCi/L		104	70	130			
Sample ID: C10020552-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C130382				03/04/10 03:14
Gross Beta	120	pCi/L		101	70	130	2	15	
Sample ID: C10020817-001ADUP	Sample Duplicate				Run: SUB-C130382				03/05/10 00:36
Gross Alpha	-0.266	pCi/L					98	521.1	U
Gross Alpha precision (±)	1.50	pCi/L							
Gross Alpha MDC	2.58	pCi/L							
Gross Beta	16.2	pCi/L					28	40.7	
Gross Beta precision (±)	2.23	pCi/L							
Gross Beta MDC	3.28	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R130184
Sample ID: LCS-R130184	Laboratory Control Sample				Run: SUB-C130184				02/26/10 17:33
Americium 241	660	pCi/L	20	82	70	130			
Cesium 137	990	pCi/L	20	97	70	130			
Potassium 40	6700	pCi/L	20	101	70	130			
Sample ID: MB-R130184	Method Blank				Run: SUB-C130184				02/26/10 17:33
Actinium 228	ND	pCi/L							
Actinium 228 precision (±)	ND	pCi/L							
Americium 241	ND	pCi/L							
Americium 241 precision (±)	ND	pCi/L							
Barium 133	ND	pCi/L							
Barium 133 precision (±)	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 212 precision (±)	ND	pCi/L							
Bismuth 214	ND	pCi/L							U
Cesium 134	ND	pCi/L							
Cesium 134 precision (±)	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cesium 137 precision (±)	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Cobalt 60 precision (±)	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 125 precision (±)	ND	pCi/L							
Iodine 131	ND	pCi/L							U
Lead 212	ND	pCi/L							
Lead 212 precision (±)	ND	pCi/L							
Lead 214	ND	pCi/L							
Lead 214 precision (±)	ND	pCi/L							
Manganese 54	ND	pCi/L							
Manganese 54 precision (±)	ND	pCi/L							
Potassium 40	ND	pCi/L							U
Radium 223	ND	pCi/L							
Radium 223 precision (±)	ND	pCi/L							
Radium 224	ND	pCi/L							
Radium 224 precision (±)	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thallium 208 precision (±)	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 228 precision (±)	ND	pCi/L							
Thorium 234	ND	pCi/L							
Thorium 234 precision (±)	ND	pCi/L							
Zinc 65	ND	pCi/L							
Zinc 65 precision (±)	ND	pCi/L							
Radium 228	ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R130184
Sample ID: MB-R130184	Method Blank				Run: SUB-C130184				02/26/10 17:33
Radium 228 precision (±)	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Sample ID: C10020817-004ADUP	Sample Duplicate				Run: SUB-C130184				02/26/10 17:33
Bismuth 212	ND	pCi/L	20					30	
Bismuth 212 precision (±)	ND	pCi/L							
Bismuth 214	ND	pCi/L	20					30	
Cesium 134	ND	pCi/L	20					30	
Cesium 134 precision (±)	ND	pCi/L							
Cesium 137	ND	pCi/L	20					30	
Cesium 137 precision (±)	ND	pCi/L							
Cobalt 60	ND	pCi/L	20					30	
Cobalt 60 precision (±)	ND	pCi/L							
Iodine 125	ND	pCi/L	20					30	
Iodine 125 precision (±)	ND	pCi/L							
Iodine 131	ND	pCi/L	20					30	U
Lead 212	ND	pCi/L	20					30	
Lead 212 precision (±)	ND	pCi/L							
Lead 214	ND	pCi/L	20					30	
Lead 214 precision (±)	ND	pCi/L							
Manganese 54	ND	pCi/L	20					30	
Manganese 54 precision (±)	ND	pCi/L							
Potassium 40	ND	pCi/L	20					30	U
Radium 223	ND	pCi/L	20					30	
Radium 223 precision (±)	ND	pCi/L							
Radium 224	ND	pCi/L	20					30	
Radium 224 precision (±)	ND	pCi/L							
Thallium 208	ND	pCi/L	20					30	
Thallium 208 precision (±)	ND	pCi/L							
Thorium 228	ND	pCi/L	20					30	
Thorium 228 precision (±)	ND	pCi/L							
Thorium 234	ND	pCi/L	20					30	
Thorium 234 precision (±)	ND	pCi/L							
Zinc 65	ND	pCi/L	20					30	
Zinc 65 precision (±)	ND	pCi/L							
Radium 228	ND	pCi/L	20					30	
Radium 228 precision (±)	ND	pCi/L							
Gross Gamma	ND	pCi/L	20					30	U
Gross Gamma precision (±)	ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_R130472
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130472				03/09/10 17:27
Radium 226	15	pCi/L		98	70	130			
Sample ID: MB-25430	Method Blank				Run: SUB-C130472				03/09/10 17:27
Radium 226	0.2	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: C10020854-001AMS	Sample Matrix Spike				Run: SUB-C130472				03/10/10 09:16
Radium 226	310	pCi/g		-257	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. Both of the LSCs analyzed with the batch meet acceptance criteria; this batch is approved.									
Sample ID: C10020854-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C130472				03/10/10 09:16
Radium 226	400	pCi/g		443	70	130	26	12.4	SR
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. Both of the LSCs analyzed with the batch meet acceptance criteria; this batch is approved.									
Method: E903.0									Batch: C_RA226-4389
Sample ID: C10030004-002CMS	Sample Matrix Spike				Run: SUB-C130649				03/09/10 16:32
Radium 226	17	pCi/L		105	70	130			
Sample ID: C10030004-002CMSD	Sample Matrix Spike Duplicate				Run: SUB-C130649				03/09/10 16:32
Radium 226	15	pCi/L		94	70	130	11	24	
Sample ID: MB-RA226-4389	Method Blank				Run: SUB-C130649				03/09/10 18:03
Radium 226	-0.2	pCi/L							U
Radium 226 precision (±)	0.08	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4389	Laboratory Control Sample				Run: SUB-C130649				03/09/10 18:03
Radium 226	8.6	pCi/L		111	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-1109
Sample ID: LCS-RA-TH-ISO-1109	Laboratory Control Sample				Run: SUB-C130435				03/08/10 11:54
Thorium 230	5.9	pCi/L		114	70	130			
Sample ID: R10020266-001H	Sample Matrix Spike				Run: SUB-C130435				03/08/10 16:08
Thorium 230	11	pCi/L		89	70	130			
Sample ID: R10020266-001H	Sample Matrix Spike Duplicate				Run: SUB-C130435				03/08/10 16:08
Thorium 230	13	pCi/L		105	70	130	16	37.5	
Sample ID: MB-RA-TH-ISO-1109	Method Blank				Run: SUB-C130435				03/08/10 16:08
Thorium 230	0.07	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.1	pCi/L							
Method: E907.0									Batch: C_25430
Sample ID: C10020823-007FMS	Sample Matrix Spike				Run: SUB-C130526				03/09/10 13:24
Thorium 230	6.7	pCi/L		107	70	130			
Sample ID: C10020823-007FMSD	Sample Matrix Spike Duplicate				Run: SUB-C130526				03/09/10 13:24
Thorium 230	6.2	pCi/L		95	70	130	7.7	35.2	
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130526				03/09/10 13:24
Thorium 230	5.4	pCi/L		113	70	130			
Sample ID: MB-25430	Method Blank				Run: SUB-C130526				03/09/10 13:24
Thorium 230	0.006	pCi/L							U
Thorium 230 MDC	0.08	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_PB-210-0669
Sample ID: C09081027-005CMS	Sample Matrix Spike				Run: SUB-C130620				03/12/10 22:26
Lead 210	210	pCi/L		96	70	130			
Sample ID: C09081027-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C130620				03/13/10 00:28
Lead 210	180	pCi/L		81	70	130	17	18.4	
Sample ID: MB-PB-210-0669	Method Blank				Run: SUB-C130620				03/13/10 02:29
Lead 210	1	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	5	pCi/L							
Sample ID: LCS-PB-210-0669	Laboratory Control Sample				Run: SUB-C130620				03/13/10 06:33
Lead 210	120	pCi/L		105	70	130			
- One of the two LCSs run with the batch was substituted for the Standard due to poor recovery. This resulted in the STD, LCS, MS, and MSD all being from the same stock solution. The efficiency is acceptable therefore the batch is approved.									
Method: E909.0M									Batch: C_R130998
Sample ID: C09090819-001FMS	Sample Matrix Spike				Run: SUB-C130998				03/23/10 07:42
Lead 210	150	pCi/Filter		103	70	130			
Sample ID: C09090819-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C130998				03/23/10 07:42
Lead 210	164	pCi/Filter		113	70	130	8.5	17.8	
Sample ID: MB-25430	Method Blank				Run: SUB-C130998				03/23/10 07:42
Lead 210	ND	pCi/L							U
Lead 210 precision (±)	20	pCi/L							
Lead 210 MDC	30	pCi/L							
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130998				03/23/10 07:42
Lead 210	550	pCi/L		105	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0									Batch: C_PO210-0283
Sample ID: LCS-25262	Laboratory Control Sample				Run: SUB-C130624				03/08/10 09:25
Polonium 210	66	pCi/L		85	70	130			
Sample ID: MB-25262	Method Blank				Run: SUB-C130624				03/08/10 09:25
Polonium 210	0.4	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	2	pCi/L							
Sample ID: C10020823-007EMS	Sample Matrix Spike				Run: SUB-C130624				03/15/10 08:47
Polonium 210	30	pCi/L		92	70	130			
Sample ID: C10020823-007EMSD	Sample Matrix Spike Duplicate				Run: SUB-C130624				03/15/10 08:47
Polonium 210	25	pCi/L		75	70	130	20	59.3	
Method: E912.0									Batch: C_25430
Sample ID: C10020823-004FMS	Sample Matrix Spike				Run: SUB-C130723				03/15/10 12:17
Polonium 210	24	pCi/L		113	70	130			
Sample ID: C10020823-004FMSD	Sample Matrix Spike Duplicate				Run: SUB-C130723				03/15/10 12:17
Polonium 210	17	pCi/L		79	70	130	35	54.1	
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130723				03/15/10 12:17
Polonium 210	82	pCi/L		104	70	130			
Sample ID: MB-25430	Method Blank				Run: SUB-C130723				03/15/10 12:17
Polonium 210	0.1	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Environmental	Powertech - Dewey	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	Email:	Sampler: (Please Print)
Powertech	Allen Scott 673-4859		
Invoice Address:	**Invoice Contact & Phone:**	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI 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

Gross Alpha

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.8 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	OB-09-21-01	2-22-10		water
2	OB-09-21-02	2-22-10		water
3				
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY

R10020266-001
002

Custody Record MUST be Signed

	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Allen Scott	2-23-10 9:53 AM				
	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
				Received by Laboratory: Steve Froiland	2-23-10 9:58	

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, and links.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

May 03, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10030205

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 3 samples for Powertech USA Inc on 3/17/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10030205-001	DB-09-21-01	03/15/10 0:00	03/17/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10030205-002	DB-09-21-01 Dup	03/15/10 0:00	03/17/10	Aqueous	Same As Above
R10030205-003	DB-09-21-02	03/15/10 0:00	03/17/10	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of your sample analysis.

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

If you have any questions regarding the analyses performed or the results of these analyses, please feel free to call (888)672-1225, (605)342-1225 or llarson@energylab.com.

Sincerely,

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

Linda Larson
Branch Manager
Energy Laboratories, Inc.
Rapid City, SD

Report Approved By: Linda K. Larson Digitally signed by Linda Larson Date: 2010.05.04 08:45:38 -06:00
Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10030205

Report Date: 05/03/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.
Comments imported for SUBBED Workorder: C10030626
PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10030626

Radon analysis was subbed to the South Dakota State Health Lab.

The samples were received two days after samples collected. Analyst missed alkalinity hold time by one day to error in reading sample date in laboratory information system.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Carbonate as CO3	ND	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Bicarbonate as HCO3	195	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Calcium	88	mg/L	D	1		5	E200.7	03/19/10 13:23/eli-c
Chloride	8	mg/L		1		1	E300.0	03/18/10 18:50/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Magnesium	31.8	mg/L		0.5		5	E200.7	03/19/10 13:23/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	03/23/10 11:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Potassium	11.5	mg/L		0.5		5	E200.7	03/19/10 13:23/eli-c
Sodium	154	mg/L	D	1		5	E200.7	03/19/10 13:23/eli-c
Sulfate	509	mg/L		1		20	E300.0	03/18/10 18:01/jmh
Silica	8.3	mg/L		0.2		5	E200.7	03/19/10 13:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1360	umhos/cm		5.0		1	A2510 B	03/19/10 10:58/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	03/19/10 10:03/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	03/19/10 13:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	03/19/10 13:23/eli-c
Copper	ND	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/19/10 13:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Manganese	0.04	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	03/19/10 13:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/22/10 14:34/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/20/10 01:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	03/20/10 01:47/eli-c
Zinc	ND	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/23/10 23:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/22/10 12:59/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/22/10 14:55/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.6	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha MDC	5.4	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta	13.7	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta MDC	6.2	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Lead 210	2.0	pCi/L	U			1	E909.0M	04/03/10 04:17/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/03/10 04:17/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	04/03/10 04:17/eli-c
Polonium 210	-0.020	pCi/L	U			1	E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.56	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Radium 226	2.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Thorium 230	0.002	pCi/L	U			1	E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Gross Gamma	810	pCi/L		20		1	E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.06	pCi/L	U			1	E909.0M	04/02/10 03:57/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/02/10 03:57/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	04/02/10 03:57/eli-c
Polonium 210	-0.013	pCi/L	U			1	E912.0	04/06/10 08:44/eli-c

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.099	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.26	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L				1	E903.0	03/29/10 23:54/eli-ca
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	03/29/10 23:54/eli-ca
Radium 226 MDC	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-ca
Thorium 230	-0.08	pCi/L	U			1	E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	260	pCi/L		100		1	D5072-92	03/18/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/22/10 12:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/22/10 12:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/22/10 12:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/22/10 12:35/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	03/23/10 14:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/22/10 12:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/22/10 12:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/22/10 12:35/eli-c
Iron	0.34	mg/L	D	0.04		5	E200.7	03/23/10 14:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/22/10 12:35/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/22/10 12:35/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/22/10 12:09/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/22/10 12:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/22/10 12:35/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/22/10 12:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/22/10 12:35/eli-c
Strontium	2.8	mg/L		0.1		1	E200.8	03/22/10 12:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/22/10 12:35/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/22/10 12:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/22/10 12:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.0300	%				1	A1030 E	04/08/10 00:00/jmh
Anions	14.0	meq/L				1	A1030 E	04/08/10 00:00/jmh
Cations	14.0	meq/L				1	A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	922	mg/L				1	A1030 E	04/08/10 00:00/jmh

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ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	04/08/10 00:00/jmh

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Carbonate as CO3	ND	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Bicarbonate as HCO3	193	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Calcium	87	mg/L	D	1		5	E200.7	03/19/10 13:27/eli-c
Chloride	8	mg/L		1		1	E300.0	03/18/10 19:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Magnesium	31.1	mg/L		0.5		5	E200.7	03/19/10 13:27/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	03/23/10 11:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Potassium	11.2	mg/L		0.5		5	E200.7	03/19/10 13:27/eli-c
Sodium	156	mg/L	D	1		5	E200.7	03/19/10 13:27/eli-c
Sulfate	531	mg/L		1		20	E300.0	03/18/10 19:06/jmh
Silica	8.1	mg/L		0.2		5	E200.7	03/19/10 13:27/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1360	umhos/cm		5.0		1	A2510 B	03/19/10 11:00/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.94	s.u.		0.01		1	A4500-H B	03/19/10 10:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	03/19/10 13:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	03/19/10 13:27/eli-c
Copper	ND	mg/L		0.01		5	E200.7	03/19/10 13:27/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/19/10 13:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Manganese	0.04	mg/L		0.01		5	E200.7	03/19/10 13:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	03/19/10 13:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/22/10 14:36/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/20/10 01:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	03/20/10 01:54/eli-c
Zinc	ND	mg/L		0.01		5	E200.7	03/19/10 13:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/23/10 23:39/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/22/10 13:01/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/22/10 14:55/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.0	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha precision (±)	5.2	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha MDC	7.6	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta	17.3	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta precision (±)	4.1	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta MDC	6.4	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Lead 210	1.1	pCi/L	U			1	E909.0M	04/03/10 06:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/03/10 06:19/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	04/03/10 06:19/eli-c
Polonium 210	0.066	pCi/L	U			1	E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.59	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Radium 226	1.9	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Thorium 230	-0.007	pCi/L	U			1	E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Gross Gamma	930	pCi/L		20		1	E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	04/02/10 10:02/eli-c
Lead 210 precision (±)	1.8	pCi/L				1	E909.0M	04/02/10 10:02/eli-c
Lead 210 MDC	3.0	pCi/L				1	E909.0M	04/02/10 10:02/eli-c
Polonium 210	0.013	pCi/L	U			1	E912.0	04/06/10 08:44/eli-c

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QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.15	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.33	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 MDC	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Thorium 230	0.03	pCi/L	U			1	E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	232	pCi/L		100		1	D5072-92	03/18/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/22/10 12:42/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/23/10 14:18/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/22/10 12:42/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/22/10 12:42/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
Iron	0.34	mg/L	D	0.04		5	E200.7	03/23/10 14:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/22/10 12:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/22/10 12:42/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/22/10 12:42/eli-c
Strontium	2.8	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/22/10 12:42/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.77	%				1	A1030 E	04/08/10 00:00/jmh
Anions	14.4	meq/L				1	A1030 E	04/08/10 00:00/jmh
Cations	14.0	meq/L				1	A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	940	mg/L				1	A1030 E	04/08/10 00:00/jmh

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.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	04/08/10 00:00/jmh

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Carbonate as CO3	ND	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Bicarbonate as HCO3	244	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Calcium	166	mg/L	D	1		5	E200.7	03/19/10 13:31/eli-c
Chloride	10	mg/L		1		1	E300.0	03/18/10 19:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	03/18/10 19:56/jmh
Magnesium	46.6	mg/L		0.5		5	E200.7	03/19/10 13:31/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/23/10 11:29/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:56/jmh
Potassium	11.3	mg/L		0.5		5	E200.7	03/19/10 13:31/eli-c
Sodium	124	mg/L	D	1		5	E200.7	03/19/10 13:31/eli-c
Sulfate	666	mg/L		1		20	E300.0	03/18/10 19:39/jmh
Silica	8.3	mg/L		0.2		5	E200.7	03/19/10 13:31/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	03/19/10 11:03/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.48	s.u.		0.01		1	A4500-H B	03/19/10 10:11/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	03/19/10 13:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	03/19/10 13:31/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/20/10 02:28/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/19/10 13:31/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/19/10 13:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/20/10 02:28/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	03/19/10 13:31/eli-c
Copper	ND	mg/L		0.01		5	E200.7	03/19/10 13:31/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/19/10 13:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/20/10 02:28/eli-c
Manganese	0.53	mg/L		0.01		5	E200.7	03/19/10 13:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/20/10 02:28/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	03/19/10 13:31/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	03/19/10 13:31/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/22/10 14:38/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/23/10 16:29/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/23/10 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.
H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0078	mg/L		0.0003		1	E200.8	03/20/10 02:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	03/20/10 02:28/eli-c
Zinc	ND	mg/L		0.01		5	E200.7	03/19/10 13:31/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/23/10 23:43/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/22/10 13:03/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/22/10 14:55/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	11.2	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Gross Alpha MDC	5.1	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Gross Beta	19.7	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Gross Beta MDC	4.3	pCi/L				1	E900.0	04/17/10 10:27/eli-ca
Lead 210	0.7	pCi/L	U			1	E909.0M	04/03/10 08:20/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/03/10 08:20/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	04/03/10 08:20/eli-c
Polonium 210	0.0	pCi/L	U			1	E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.42	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Radium 226	2.9	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Thorium 230	-0.01	pCi/L	U			1	E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Gross Gamma	990	pCi/L		20		1	E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	04/02/10 12:04/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/02/10 12:04/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	04/02/10 12:04/eli-c
Polonium 210	0.061	pCi/L	U			1	E912.0	04/06/10 08:44/eli-c

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U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.18	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.34	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 MDC	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Thorium 230	-0.001	pCi/L	U			1	E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	319	pCi/L		100		1	D5072-92	03/18/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/22/10 12:55/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/22/10 12:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/22/10 12:55/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/22/10 12:55/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	03/23/10 14:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/22/10 12:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/22/10 12:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/22/10 12:55/eli-c
Iron	0.15	mg/L	D	0.04		5	E200.7	03/23/10 14:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/22/10 12:55/eli-c
Manganese	0.56	mg/L		0.01		1	E200.8	03/22/10 12:55/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/22/10 12:14/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/22/10 12:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/22/10 12:55/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	03/22/10 12:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/22/10 12:55/eli-c
Strontium	2.4	mg/L		0.1		1	E200.8	03/22/10 12:55/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/22/10 12:55/eli-c
Uranium	0.0088	mg/L		0.0003		1	E200.8	03/22/10 12:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/22/10 12:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.990	%				1	A1030 E	04/08/10 00:00/jmh
Anions	18.2	meq/L				1	A1030 E	04/08/10 00:00/jmh
Cations	17.8	meq/L				1	A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	1170	mg/L				1	A1030 E	04/08/10 00:00/jmh

Report Definitions:
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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.

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	04/08/10 00:00/jmh

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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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100330A-ALK-SEL-W	
Sample ID: LCS1_100330A	Laboratory Control Sample				Run: PH_COND1-R_100330A			03/30/10 09:31	
Alkalinity, Total as CaCO3	980	mg/L	5.0	98	90	110			
Sample ID: MBLK1_100330A	Method Blank				Run: PH_COND1-R_100330A			03/30/10 09:36	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R10030220-005AMS	Sample Matrix Spike				Run: PH_COND1-R_100330A			03/30/10 10:26	
Alkalinity, Total as CaCO3	210	mg/L	5.0	91	80	120			
Sample ID: R10030220-005AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_100330A			03/30/10 10:27	
Alkalinity, Total as CaCO3	212	mg/L	5.0	92	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.
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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100319_1_COND-PROBE-W	
Sample ID: LCS1-1_100319	Laboratory Control Sample				Run: PH_COND2-R_100319B			03/19/10 10:39	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100319	Laboratory Control Sample				Run: PH_COND2-R_100319B			03/19/10 10:43	
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100319	Laboratory Control Sample				Run: PH_COND2-R_100319B			03/19/10 10:48	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100319	Method Blank				Run: PH_COND2-R_100319B			03/19/10 10:50	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R10030165-001ADUP	Sample Duplicate				Run: PH_COND2-R_100319B			03/19/10 10:55	
Conductivity @ 25 C	3430	umhos/cm	5.0				2.1	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100319A-SLDS-TDS-W	
Sample ID: LCS1_100319A	Laboratory Control Sample				Run: BAL-4-R_100322A			03/19/10 11:50	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	10	105	90	110			
Sample ID: MBLK1_100319A	Method Blank				Run: BAL-4-R_100322A			03/19/10 11:52	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R10030220-003AMS	Sample Matrix Spike				Run: BAL-4-R_100322A			03/19/10 14:07	
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	10	107	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100322-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_100322A			03/22/10 15:30	
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R10030205-001FDUP	Sample Duplicate				Run: PH_COND1-R_100322A			03/22/10 15:30	
Oxidation-Reduction Potential	200	mV					0.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-100322A	
Sample ID: MBLK	Method Blank				Run: SUB-C130847			03/22/10 12:52	
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 03121	Laboratory Control Sample				Run: SUB-C130847			03/22/10 12:54	
Selenium-IV	0.050	mg/L	0.0010	101	90	110			
Sample ID: R10030205-003E	Sample Matrix Spike				Run: SUB-C130847			03/22/10 13:06	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R10030205-003E	Sample Matrix Spike Duplicate				Run: SUB-C130847			03/22/10 13:08	
Selenium-IV	0.049	mg/L	0.0010	98	85	115	1.5	10	
Method: A3114 B								Batch: C_SE3114-100322B	
Sample ID: MBLK	Method Blank				Run: SUB-C130854			03/22/10 14:27	
Selenium	0.0007	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 03121	Laboratory Control Sample				Run: SUB-C130854			03/22/10 14:29	
Selenium	0.049	mg/L	0.0010	98	90	110			
Sample ID: R10030205-003E	Sample Matrix Spike				Run: SUB-C130854			03/22/10 14:41	
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: R10030205-003E	Sample Matrix Spike Duplicate				Run: SUB-C130854			03/22/10 14:43	
Selenium	0.050	mg/L	0.0010	99	85	115	4.2	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100319_1_PH-W
Sample ID: LCS_pH-1_100319	Laboratory Control Sample				Run: PH_COND2-R_100319A				03/19/10 09:57
pH	7.44	s.u.	0.010	100	98.55	101.45			
Sample ID: R10030205-001ADUP	Sample Duplicate				Run: PH_COND2-R_100319A				03/19/10 10:06
pH	7.93	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-03-23_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_100323A			03/23/10 09:52	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_100323A			03/23/10 09:54	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	97	90	110			
Sample ID: R10030217-001AMS	Sample Matrix Spike				Run: TECHAA2-R_100323A			03/23/10 11:34	
Nitrogen, Ammonia as N	0.28	mg/L	0.10	93	80	120			
Sample ID: R10030217-001AMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_100323A			03/23/10 11:35	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	88	80	120	4.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R130823
Sample ID: MB-100319A	Method Blank				Run: SUB-C130823				03/19/10 10:46
Silicon	ND	mg/L	0.007						
Aluminum	ND	mg/L	0.01						
Barium	ND	mg/L	0.0005						
Boron	0.01	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.001						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.005						
Nickel	ND	mg/L	0.003						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Zinc	ND	mg/L	0.001						
Sample ID: LFB-100319A	Laboratory Fortified Blank				Run: SUB-C130823				03/19/10 10:50
Silicon	0.47	mg/L	0.0075	100	85	115			
Aluminum	0.92	mg/L	0.10	92	85	115			
Barium	0.94	mg/L	0.10	94	85	115			
Boron	0.96	mg/L	0.10	95	85	115			
Calcium	48	mg/L	0.50	95	85	115			
Chromium	0.93	mg/L	0.050	93	85	115			
Copper	0.95	mg/L	0.010	95	85	115			
Iron	0.95	mg/L	0.030	95	85	115			
Magnesium	47	mg/L	0.50	95	85	115			
Manganese	0.92	mg/L	0.010	92	85	115			
Molybdenum	0.96	mg/L	0.10	96	85	115			
Nickel	0.92	mg/L	0.050	92	85	115			
Potassium	44	mg/L	0.50	89	85	115			
Sodium	47	mg/L	0.50	93	85	115			
Zinc	0.94	mg/L	0.010	94	85	115			
Sample ID: C10030544-001BMS2	Sample Matrix Spike				Run: SUB-C130823				03/19/10 12:50
Aluminum	1.98	mg/L	0.10	97	70	130			
Barium	1.96	mg/L	0.10	93	70	130			
Boron	2.00	mg/L	0.10	96	70	130			
Chromium	1.92	mg/L	0.050	94	70	130			
Copper	1.95	mg/L	0.010	96	70	130			
Iron	1.97	mg/L	0.030	95	70	130			
Manganese	1.91	mg/L	0.010	92	70	130			
Molybdenum	1.91	mg/L	0.10	94	70	130			
Nickel	1.89	mg/L	0.050	93	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R130823	
Sample ID: C10030544-001BMS2	Sample Matrix Spike				Run: SUB-C130823			03/19/10 12:50	
Silicon	7.39	mg/L	0.10		70	130			A
Zinc	2.00	mg/L	0.010	97	70	130			
Calcium	157	mg/L	1.0	96	70	130			
Magnesium	105	mg/L	1.0	93	70	130			
Potassium	102	mg/L	1.0	91	70	130			
Sodium	127	mg/L	1.0	94	70	130			
Sample ID: C10030544-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C130823			03/19/10 12:54	
Aluminum	1.99	mg/L	0.10	98	70	130	0.8	20	
Barium	1.99	mg/L	0.10	94	70	130	1.3	20	
Boron	2.01	mg/L	0.10	96	70	130	0.5	20	
Chromium	1.91	mg/L	0.050	93	70	130	1	20	
Copper	1.94	mg/L	0.010	95	70	130	0.9	20	
Iron	1.92	mg/L	0.030	93	70	130	2.5	20	
Manganese	1.90	mg/L	0.010	92	70	130	0.1	20	
Molybdenum	1.93	mg/L	0.10	94	70	130	0.7	20	
Nickel	1.88	mg/L	0.050	92	70	130	0.6	20	
Silicon	7.28	mg/L	0.10		70	130	1.5	20	A
Zinc	1.97	mg/L	0.010	96	70	130	1.3	20	
Calcium	155	mg/L	1.0	94	70	130	1.3	20	
Magnesium	105	mg/L	1.0	93	70	130	0.2	20	
Potassium	103	mg/L	1.0	92	70	130	0.6	20	
Sodium	125	mg/L	1.0	93	70	130	1.1	20	
Method: E200.7								Batch: C_R130908	
Sample ID: MB-100323A	Method Blank				Run: SUB-C130908			03/23/10 10:49	
Boron	ND	mg/L	0.009						
Iron	ND	mg/L	0.002						
Sample ID: LFB-100323A	Laboratory Fortified Blank				Run: SUB-C130908			03/23/10 10:53	
Boron	0.98	mg/L	0.10	98	85	115			
Iron	0.96	mg/L	0.030	96	85	115			
Sample ID: R10030205-002D	Sample Matrix Spike				Run: SUB-C130908			03/23/10 14:22	
Boron	5.17	mg/L	0.10	100	70	130			
Iron	5.35	mg/L	0.042	98	70	130			
Sample ID: R10030205-002D	Sample Matrix Spike Duplicate				Run: SUB-C130908			03/23/10 14:26	
Boron	5.14	mg/L	0.10	99	70	130	0.7	20	
Iron	5.33	mg/L	0.042	98	70	130	0.3	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.

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8									Batch: C_R130917
Sample ID: LRB	Method Blank				Run: SUB-C130917				03/23/10 13:18
Silver	ND	mg/L	8E-05						
Thorium 232	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130917				03/23/10 13:25
Silver	0.0215	mg/L	0.0010	108	85	115			
Thorium 232	0.0531	mg/L	0.0010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130826
Sample ID: LRB	Method Blank				Run: SUB-C130826				03/19/10 12:49
Arsenic	ND	mg/L	0.0003						
Cadmium	ND	mg/L	6E-05						
Lead	ND	mg/L	2E-05						
Mercury	ND	mg/L	4E-05						
Silver	0.0003	mg/L	2E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130826				03/19/10 12:56
Arsenic	0.0499	mg/L	0.0010	100	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0497	mg/L	0.0010	99	85	115			
Mercury	0.00501	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	97	85	115			
Thorium 232	0.0426	mg/L	0.0010	85	85	115			
Uranium	0.0478	mg/L	0.00030	96	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Sample ID: C10030605-002BMS4	Post Digestion Spike				Run: SUB-C130826				03/20/10 01:27
Arsenic	0.0512	mg/L	0.0010	98	70	130			
Cadmium	0.0469	mg/L	0.010	94	70	130			
Lead	0.0481	mg/L	0.050	96	70	130			
Mercury	0.00474	mg/L	0.0010	95	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thorium 232	0.0371	mg/L	0.0010	74	70	130			
Uranium	0.0685	mg/L	0.00030	101	70	130			
Vanadium	0.0533	mg/L	0.10	96	70	130			
Sample ID: C10030605-002BMSD4	Post Digestion Spike Duplicate				Run: SUB-C130826				03/20/10 01:33
Arsenic	0.0513	mg/L	0.0010	98	70	130	0.2	20	
Cadmium	0.0471	mg/L	0.010	94	70	130	0.6	20	
Lead	0.0482	mg/L	0.0010	96	70	130	0.1	20	
Mercury	0.00486	mg/L	0.0010	98	70	130	2.4	20	
Silver	0.0158	mg/L	0.010	79	70	130	7.2	20	
Thorium 232	0.0431	mg/L	0.0010	86	70	130	15	20	
Uranium	0.0687	mg/L	0.00030	101	70	130	0.3	20	
Vanadium	0.0538	mg/L	0.0010	97	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130867
Sample ID: LRB	Method Blank				Run: SUB-C130867				03/22/10 12:15
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	9E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Selenium	ND	mg/L	0.001						
Silver	0.0002	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	0.001	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130867				03/22/10 12:21
Antimony	0.0514	mg/L	0.0010	102	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0519	mg/L	0.0010	104	85	115			
Beryllium	0.0535	mg/L	0.0010	107	85	115			
Cadmium	0.0516	mg/L	0.0010	103	85	115			
Chromium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0523	mg/L	0.0010	105	85	115			
Manganese	0.0519	mg/L	0.0010	104	85	115			
Molybdenum	0.0524	mg/L	0.0010	105	85	115			
Nickel	0.0518	mg/L	0.0010	104	85	115			
Selenium	0.0528	mg/L	0.0014	106	85	115			
Silver	0.0198	mg/L	0.0010	98	85	115			
Strontium	0.0517	mg/L	0.0010	103	85	115			
Thallium	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0515	mg/L	0.00030	103	85	115			
Zinc	0.0544	mg/L	0.0010	107	85	115			
Sample ID: C10030680-001BMS4	Post Digestion Spike				Run: SUB-C130867				03/22/10 13:09
Antimony	0.284	mg/L	0.050	113	70	130			
Arsenic	0.266	mg/L	0.0010	104	70	130			
Barium	0.583	mg/L	0.10	98	70	130			
Beryllium	0.244	mg/L	0.010	98	70	130			
Cadmium	0.241	mg/L	0.010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130867
Sample ID: C10030680-001BMS4	Post Digestion Spike				Run: SUB-C130867				03/22/10 13:09
Chromium	0.256	mg/L	0.050	97	70	130			
Copper	0.244	mg/L	0.010	95	70	130			
Lead	0.265	mg/L	0.050	106	70	130			
Manganese	0.869	mg/L	0.010	47	70	130			S
Molybdenum	0.300	mg/L	0.10	109	70	130			
Nickel	0.258	mg/L	0.050	94	70	130			
Selenium	0.274	mg/L	0.0012	94	70	130			
Silver	0.0765	mg/L	0.010	73	70	130			
Strontium	2.35	mg/L	0.10		70	130			A
Thallium	0.259	mg/L	0.10	104	70	130			
Uranium	4.33	mg/L	0.00030		70	130			A
Zinc	0.236	mg/L	0.010	63	70	130			S
Sample ID: C10030680-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C130867				03/22/10 13:43
Antimony	0.303	mg/L	0.050	121	70	130	6.5	20	
Arsenic	0.278	mg/L	0.0010	109	70	130	4.3	20	
Barium	0.621	mg/L	0.10	113	70	130	6.4	20	
Beryllium	0.249	mg/L	0.010	100	70	130	1.8	20	
Cadmium	0.256	mg/L	0.010	102	70	130	5.8	20	
Chromium	0.266	mg/L	0.050	101	70	130	3.9	20	
Copper	0.251	mg/L	0.010	98	70	130	2.8	20	
Lead	0.278	mg/L	0.050	111	70	130	5	20	
Manganese	0.923	mg/L	0.010	68	70	130	6	20	S
Molybdenum	0.314	mg/L	0.10	115	70	130	4.5	20	
Nickel	0.268	mg/L	0.050	98	70	130	3.9	20	
Selenium	0.289	mg/L	0.0012	100	70	130	5.5	20	
Silver	0.0815	mg/L	0.010	78	70	130	6.3	20	
Strontium	2.48	mg/L	0.10		70	130	5.4	20	A
Thallium	0.273	mg/L	0.10	109	70	130	5.3	20	
Uranium	4.55	mg/L	0.00030		70	130	5.1	20	A
Zinc	0.245	mg/L	0.010	67	70	130	3.4	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_25594
Sample ID: MB-25594	Method Blank				Run: SUB-C130913				03/23/10 23:26
Uranium	0.0001	mg/L	6E-05						
Sample ID: LCS2-25594	Laboratory Control Sample				Run: SUB-C130913				03/23/10 23:31
Uranium	0.105	mg/L	0.00030	105	85	115			
Sample ID: R10030205-003I	Post Digestion Spike				Run: SUB-C130913				03/23/10 23:47
Uranium	0.00656	mg/L	0.00030	104	70	130			
Sample ID: R10030205-003I	Post Digestion Spike Duplicate				Run: SUB-C130913				03/23/10 23:51
Uranium	0.00656	mg/L	0.00030	104	70	130	0.1	20	
Method: E200.8									Batch: C_R130917
Sample ID: C10030663-005BMS4	Post Digestion Spike				Run: SUB-C130917				03/23/10 15:41
Silver	0.0161	mg/L	0.010	80	70	130			
Thorium 232	0.0547	mg/L	0.0010	109	70	130			
Sample ID: C10030663-005BMSD4	Post Digestion Spike Duplicate				Run: SUB-C130917				03/23/10 16:15
Silver	0.0169	mg/L	0.010	84	70	130	5	20	
Thorium 232	0.0560	mg/L	0.0010	112	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B144938	
Sample ID: QCS	Initial Calibration Verification Standard							03/22/10 11:10	
Mercury	0.0020	mg/L	0.0010	100	90	110			
Method: E245.1								Batch: B_45135	
Sample ID: MB-45135	Method Blank				Run: SUB-B144938			03/22/10 11:16	
Mercury	ND	mg/L	5E-05						
Sample ID: LCS-45135	Laboratory Control Sample				Run: SUB-B144938			03/22/10 11:18	
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B10031588-004EMS	Sample Matrix Spike				Run: SUB-B144938			03/22/10 11:52	
Mercury	0.0020	mg/L	0.0010	101	70	130			
Sample ID: B10031588-004EMSD	Sample Matrix Spike Duplicate				Run: SUB-B144938			03/22/10 11:54	
Mercury	0.0020	mg/L	0.0010	101	70	130	0.5	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R45163
Sample ID: LFB031810-10	Laboratory Fortified Blank				Run: DIONEX_100318A				03/18/10 17:28
Chloride	9.90	mg/L	1.0	99	90	110			
Fluoride	3.96	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	4.85	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	5.29	mg/L	0.10	106	90	110			
Sulfate	28.2	mg/L	1.0	94	90	110			
Sample ID: R10030205-001AMS	Sample Matrix Spike				Run: DIONEX_100318A				03/18/10 18:17
Chloride	204	mg/L	2.2	76	90	110			S
Fluoride	80.6	mg/L	0.22	101	90	110			
Nitrogen, Nitrate as N	97.2	mg/L	0.50	97	90	110			
Nitrogen, Nitrite as N	106	mg/L	1.2	106	90	110			
Sulfate	1000	mg/L	1.3	83	90	110			S
Sample ID: R10030205-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_100318A				03/18/10 18:34
Chloride	202	mg/L	2.2	74	90	110	1.2	10	S
Fluoride	79.8	mg/L	0.22	100	90	110	1.1	10	
Nitrogen, Nitrate as N	96.1	mg/L	0.50	96	90	110	1.1	10	
Nitrogen, Nitrite as N	105	mg/L	1.2	105	90	110	1.4	10	
Sulfate	996	mg/L	1.3	81	90	110	0.8	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0873
Sample ID: MB-GrAB-0873	Method Blank				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	0.2	pCi/L							U
Gross Alpha precision (±)	0.7	pCi/L							
Gross Alpha MDC	0.8	pCi/L							
Gross Beta	-0.8	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0873	Laboratory Control Sample				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	110	pCi/L		107	70	130			
Sample ID: Cs137-GrAB-0873	Laboratory Control Sample				Run: SUB-C131111				03/29/10 23:12
Gross Beta	94	pCi/L		105	70	130			
Sample ID: C10030544-001DDUP	Sample Duplicate				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	4.9	pCi/L					28	72.3	
Gross Alpha precision (±)	1.7	pCi/L							
Gross Alpha MDC	2.4	pCi/L							
Gross Beta	12	pCi/L					11	41.9	
Gross Beta precision (±)	2.0	pCi/L							
Gross Beta MDC	3.1	pCi/L							
Sample ID: C10030685-003AMS	Sample Matrix Spike				Run: SUB-C131111				03/30/10 11:56
Gross Alpha	107	pCi/L		105	70	130			
Sample ID: C10030685-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131111				03/30/10 11:56
Gross Alpha	95.4	pCi/L		94	70	130	11	18.2	
Sample ID: C10030685-003AMS	Sample Matrix Spike				Run: SUB-C131111				03/30/10 11:56
Gross Beta	99.3	pCi/L		113	70	130			
Sample ID: C10030685-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131111				03/30/10 11:56
Gross Beta	107	pCi/L		122	70	130	7.9	16.1	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0885
Sample ID: MB-GrAB-0885	Method Blank				Run: SUB-C131733				04/16/10 22:20
Gross Alpha	-0.1	pCi/L							U
Gross Alpha precision (±)	0.7	pCi/L							
Gross Alpha MDC	0.7	pCi/L							
Gross Beta	1	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0885	Laboratory Control Sample				Run: SUB-C131733				04/16/10 22:20
Gross Alpha	97	pCi/L		95	70	130			
Sample ID: Cs137-GrAB-0885	Laboratory Control Sample				Run: SUB-C131733				04/16/10 22:20
Gross Beta	91	pCi/L		100	70	130			
Sample ID: C10040184-005AMS	Sample Matrix Spike				Run: SUB-C131733				04/16/10 22:20
Gross Alpha	92.2	pCi/L		90	70	130			
Sample ID: C10040184-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131733				04/16/10 22:20
Gross Alpha	107	pCi/L		105	70	130	15	16.7	
Sample ID: C10040184-005AMS	Sample Matrix Spike				Run: SUB-C131733				04/16/10 22:20
Gross Beta	96.0	pCi/L		106	70	130			
Sample ID: C10040184-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131733				04/16/10 22:20
Gross Beta	95.8	pCi/L		105	70	130	0.2	15.9	
Sample ID: C10040305-001ADUP	Sample Duplicate				Run: SUB-C131733				04/17/10 10:27
Gross Alpha	18.7	pCi/L					23	46.5	
Gross Alpha precision (±)	3.21	pCi/L							
Gross Alpha MDC	3.48	pCi/L							
Gross Beta	9.59	pCi/L					53	63.1	
Gross Beta precision (±)	2.12	pCi/L							
Gross Beta MDC	3.26	pCi/L							

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R130928
Sample ID: LCS-R130928	Laboratory Control Sample				Run: SUB-C130928				03/22/10 09:00
Americium 241	710	pCi/L	20	80	70	130			
Barium 133	540	pCi/L	20	98	70	130			
Cesium 137	900	pCi/L	20	98	70	130			
Potassium 40	2500	pCi/L	20	76	70	130			
Sample ID: MB-R130928	Method Blank				Run: SUB-C130928				03/22/10 09:00
Gross Gamma	ND	pCi/L							U
Sample ID: R10030205-003H	Sample Duplicate				Run: SUB-C130928				03/22/10 09:00
Gross Gamma	780	pCi/L	20				25	30	
Gross Gamma precision (±)	130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-4424
Sample ID: R10030205-001H	Sample Matrix Spike				Run: SUB-C131089				03/29/10 17:02
Radium 226	20	pCi/L		114	70	130			
Sample ID: R10030205-001H	Sample Matrix Spike Duplicate				Run: SUB-C131089				03/29/10 17:02
Radium 226	19	pCi/L		109	70	130	5.2	21.9	
Sample ID: MB-RA226-4424	Method Blank				Run: SUB-C131089				03/29/10 22:05
Radium 226	0.03	pCi/L							U
Radium 226 precision (±)	0.09	pCi/L							
Radium 226 MDC	0.1	pCi/L							
Sample ID: LCS-RA226-4424	Laboratory Control Sample				Run: SUB-C131089				03/29/10 22:05
Radium 226	8.2	pCi/L		103	70	130			
Method: E903.0									Batch: C_R131112
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131112				03/29/10 23:54
Radium 226	15	pCi/L		97	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C131112				03/29/10 23:54
Radium 226	0.4	pCi/L							
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: C10030615-001AMS	Sample Matrix Spike				Run: SUB-C131112				03/29/10 23:54
Radium 226	1400	pCi/g-dry		4340	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The two LCSs and the MB meet acceptance criteria; this batch is approved.									
Sample ID: C10030615-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131112				03/29/10 23:54
Radium 226	2700	pCi/g-dry		22100	70	130	65	10.6	SR

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-1125
Sample ID: LCS-RA-TH-ISO-1125	Laboratory Control Sample				Run: SUB-C130898				03/23/10 08:45
Thorium 230	5.3	pCi/L		101	70	130			
Sample ID: R10030205-003H	Sample Matrix Spike				Run: SUB-C130898				03/23/10 08:45
Thorium 230	15	pCi/L		113	70	130			
Sample ID: R10030205-003H	Sample Matrix Spike Duplicate				Run: SUB-C130898				03/23/10 08:45
Thorium 230	13	pCi/L		97	70	130	17	39.7	
Sample ID: MB-RA-TH-ISO-1125	Method Blank				Run: SUB-C130898				03/23/10 08:45
Thorium 230	0.01	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							
Method: E907.0									Batch: C_25594
Sample ID: R10030205-003I	Sample Matrix Spike				Run: SUB-C130981				03/23/10 17:02
Thorium 230	5.9	pCi/L		116	70	130			
Sample ID: R10030205-003I	Sample Matrix Spike Duplicate				Run: SUB-C130981				03/23/10 17:02
Thorium 230	5.1	pCi/L		106	70	130	15	35.1	
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C130981				03/23/10 17:02
Thorium 230	4.9	pCi/L		102	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C130981				03/23/10 17:02
Thorium 230	-0.07	pCi/L							U
Thorium 230 MDC	0.1	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							

Qualifiers:

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_PB-210-0677
Sample ID: C09100378-001BMS	Sample Matrix Spike				Run: SUB-C131275				04/04/10 04:36
Lead 210	240	pCi/L		109	70	130			
Sample ID: C09100378-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C131275				04/04/10 06:38
Lead 210	240	pCi/L		109	70	130	0	17.4	
Sample ID: MB-PB-210-0677	Method Blank				Run: SUB-C131275				04/04/10 08:39
Lead 210	-0.2	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	6	pCi/L							
Sample ID: LCS-PB-210-0677	Laboratory Control Sample				Run: SUB-C131275				04/04/10 10:41
Lead 210	92	pCi/L		83	70	130			
Sample ID: LCS-PB-210-0677	Laboratory Control Sample				Run: SUB-C131275				04/04/10 12:42
Lead 210	130	pCi/L		115	70	130			
Method: E909.0M									Batch: C_PB-210-0679
Sample ID: R10030205-001I	Sample Matrix Spike				Run: SUB-C131286				04/02/10 05:59
Lead 210	110	pCi/L		86	70	130			
Sample ID: R10030205-001I	Sample Matrix Spike Duplicate				Run: SUB-C131286				04/02/10 08:00
Lead 210	120	pCi/L		90	70	130	5.1	17.8	
Sample ID: MB-25594	Method Blank				Run: SUB-C131286				04/02/10 14:05
Lead 210	3	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	5	pCi/L							
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131286				04/02/10 16:07
Lead 210	500	pCi/L		95	70	130			
Sample ID: LCS-PB-210-0679	Laboratory Control Sample				Run: SUB-C131286				04/02/10 18:09
Lead 210	450	pCi/L		81	70	130			

Qualifiers:

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ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0									Batch: C_PO210-0289
Sample ID: C10030544-003EMS	Sample Matrix Spike				Run: SUB-C131016				03/26/10 08:55
Polonium 210	34	pCi/L		104	70	130			
Sample ID: C10030544-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-C131016				03/26/10 08:55
Polonium 210	32	pCi/L		98	70	130	7.1	56.9	
Sample ID: LCS-PO210-0289	Laboratory Control Sample				Run: SUB-C131016				03/26/10 11:35
Polonium 210	19	pCi/L		113	70	130			
Sample ID: MB-PO210-0289	Method Blank				Run: SUB-C131016				03/26/10 11:35
Polonium 210	-0.04	pCi/L							U
Polonium 210 MDC	0.5	pCi/L							
Polonium 210 precision (±)	0.2	pCi/L							
Method: E912.0									Batch: C_R131341
Sample ID: R10030205-002I	Sample Matrix Spike				Run: SUB-C131341				04/06/10 08:44
Polonium 210	15	pCi/L		78	70	130			
Sample ID: R10030205-002I	Sample Matrix Spike Duplicate				Run: SUB-C131341				04/06/10 08:44
Polonium 210	20	pCi/L		103	70	130	28	52.1	
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131341				04/06/10 11:37
Polonium 210	74	pCi/L		95	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C131341				04/06/10 11:37
Polonium 210	-0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env.	Project Name, PWS, Permit, Etc. Powertech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Powertech	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address: Same	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ GSA ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____
☐ A2LA ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ 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)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 2.9 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	DB-09-21-01	3-15-10		Water
2	DB-09-21-01 Dup.	3-15-10		"
3	DB-09-21-02	3-15-10		"
4				
5				
6				
7				
8				
9				
10				

R2 per Quote

LABORATORY USE ONLY R100302O5-001 002 003

Custody Record MUST be Signed						
Relinquished by (print): Allen Scott	Date/Time: 3-17-10 8:45	Signature:	Received by (print):	Date/Time:	Signature:	
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:	
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Froiland	Date/Time: 3-17-10 8:45	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.

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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

ANALYTICAL SUMMARY REPORT

June 15, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10040303

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 4/22/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10040303-001	DB-09-21-01	04/21/10 0:00	04/22/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10040303-002	DB-09-21-02	04/21/10 0:00	04/22/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson
Digitally signed by Linda Larson
Date: 2010.06.15 16:13:03 -06:00
Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10040303

Report Date: 06/15/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Radon analysis was subbed to the South Dakota State Health Lab.
Comments imported for SUBBED Workorder: C10040835
PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10040835

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	104	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Bicarbonate as HCO3	127	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Calcium	76	mg/L	D	1		5	E200.7	04/26/10 19:11/eli-c
Chloride	7	mg/L		1		1	E300.0	04/22/10 22:16/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Magnesium	28.0	mg/L		0.5		5	E200.7	04/26/10 19:11/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	05/04/10 16:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Potassium	12.7	mg/L		0.5		5	E200.7	04/26/10 19:11/eli-c
Sodium	168	mg/L	D	1		5	E200.7	04/26/10 19:11/eli-c
Sulfate	521	mg/L		1		20	E300.0	05/07/10 03:03/jmh
Silica	10.3	mg/L		0.2		5	E200.7	04/26/10 19:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	04/27/10 10:44/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	04/28/10 16:00/jmh
pH	8.04	s.u.		0.01		1	A4500-H B	04/23/10 10:54/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10		1	Calculation	05/03/10 10:11/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	04/26/10 15:16/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 17:24/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 19:11/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 19:11/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/26/10 19:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Manganese	0.02	mg/L		0.01		5	E200.7	04/26/10 19:11/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 19:11/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/26/10 14:23/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 17:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/27/10 22:51/eli-c

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

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/26/10 17:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/10 17:24/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 22:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/28/10 22:31/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/26/10 10:27/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/26/10 15:45/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.5	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha MDC	4.6	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta	12.8	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta MDC	3.7	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	05/07/10 12:59/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	05/07/10 12:59/eli-c
Lead 210 MDC	2.6	pCi/L				1	E909.0M	05/07/10 12:59/eli-c
Polonium 210	-0.039	pCi/L	U			1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 MDC	0.56	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Thorium 230	0.1	pCi/L	U			1	E907.0	04/27/10 16:58/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	04/27/10 09:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	04/27/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.1	pCi/L	U			1	E909.0M	05/08/10 23:12/eli-c
Lead 210 precision (±)	3.1	pCi/L				1	E909.0M	05/08/10 23:12/eli-c
Lead 210 MDC	5.2	pCi/L				1	E909.0M	05/08/10 23:12/eli-c
Polonium 210	0.18	pCi/L	U			1	E912.0	05/04/10 13:24/eli-ca
Polonium 210 precision (±)	0.60	pCi/L				1	E912.0	05/04/10 13:24/eli-ca

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	1.2	pCi/L				1	E912.0	05/04/10 13:24/eli-ca
Radium 226	-0.01	pCi/L	U			1	E903.0	05/05/10 17:03/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Thorium 230	-0.1	pCi/L	U			1	E907.0	04/30/10 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/30/10 08:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	ND	pCi/L		100		1	D5072-92	04/23/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/26/10 18:12/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Beryllium	ND	mg/L		0.001		5	E200.7	04/26/10 22:44/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 18:12/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 22:44/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 22:44/eli-c
Iron	0.11	mg/L	D	0.04		5	E200.7	04/26/10 22:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Manganese	0.02	mg/L		0.01		5	E200.7	04/26/10 22:44/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/26/10 12:06/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 22:44/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 18:12/eli-c
Strontium	2.6	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/26/10 18:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 22:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.20	%				1	A1030 E	06/15/10 00:00/lkl
Anions	13.2	meq/L				1	A1030 E	06/15/10 00:00/lkl
Cations	13.7	meq/L				1	A1030 E	06/15/10 00:00/lkl
Solids, Total Dissolved Calculated	903	mg/L				1	A1030 E	06/15/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	06/15/10 00:00/lkl

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.

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Bicarbonate as HCO3	241	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Calcium	173	mg/L	D	1		5	E200.7	04/26/10 19:23/eli-c
Chloride	9	mg/L		1		1	E300.0	04/22/10 23:54/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Magnesium	48.6	mg/L		0.5		5	E200.7	04/26/10 19:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/04/10 16:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Potassium	11.9	mg/L		0.5		5	E200.7	04/26/10 19:23/eli-c
Sodium	134	mg/L	D	1		5	E200.7	04/26/10 19:23/eli-c
Sulfate	659	mg/L		1		20	E300.0	05/07/10 03:19/jmh
Silica	9.0	mg/L		0.2		5	E200.7	04/26/10 19:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1600	umhos/cm		5.0		1	A2510 B	04/27/10 10:48/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	04/28/10 16:00/jmh
pH	7.50	s.u.		0.01		1	A4500-H B	04/23/10 10:58/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	05/03/10 10:11/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	04/26/10 15:18/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 18:18/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 19:23/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 19:23/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/26/10 19:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Manganese	0.56	mg/L		0.01		5	E200.7	04/26/10 19:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 19:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/26/10 14:30/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 18:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/27/10 23:32/eli-c

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

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0084	mg/L		0.0003		1	E200.8	04/26/10 18:18/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/10 18:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 23:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/28/10 22:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/26/10 10:34/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/26/10 15:45/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	56.3	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha precision (±)	7.1	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha MDC	6.2	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta	32.7	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta MDC	5.1	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	05/07/10 15:03/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	05/07/10 15:03/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	05/07/10 15:03/eli-c
Polonium 210	-0.0025	pCi/L	U			1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Radium 226	4.3	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Thorium 230	0.004	pCi/L	U			1	E907.0	04/27/10 16:58/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Gross Gamma	960	pCi/L				1	E901.1	04/27/10 09:00/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	04/27/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	05/09/10 05:17/eli-c
Lead 210 precision (±)	3.1	pCi/L				1	E909.0M	05/09/10 05:17/eli-c
Lead 210 MDC	5.2	pCi/L				1	E909.0M	05/09/10 05:17/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	05/04/10 13:24/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	05/04/10 13:24/eli-ca

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.48	pCi/L				1	E912.0	05/04/10 13:24/eli-ca
Radium 226	0.03	pCi/L	U			1	E903.0	05/05/10 17:03/eli-ca
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Thorium 230	0.1	pCi/L	U			1	E907.0	04/30/10 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/30/10 08:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	303	pCi/L		100		1	D5072-92	04/23/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/26/10 18:25/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/10 18:25/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 22:48/eli-c
Beryllium	ND	mg/L		0.001		5	E200.7	04/26/10 22:48/eli-c
Boron	ND	mg/L		0.1		5	E200.7	04/26/10 22:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 18:25/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 22:48/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 22:48/eli-c
Iron	ND	mg/L	D	0.04		5	E200.7	04/26/10 22:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 18:25/eli-c
Manganese	0.57	mg/L		0.01		5	E200.7	04/26/10 22:48/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/26/10 12:08/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 22:48/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 22:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/26/10 18:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 18:25/eli-c
Strontium	2.4	mg/L		0.1		5	E200.7	04/26/10 22:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/26/10 18:25/eli-c
Uranium	0.0083	mg/L		0.0003		1	E200.8	04/26/10 18:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 23:39/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.25	%				1	A1030 E	06/15/10 00:00/lkl
Anions	18.0	meq/L				1	A1030 E	06/15/10 00:00/lkl
Cations	18.8	meq/L				1	A1030 E	06/15/10 00:00/lkl
Solids, Total Dissolved Calculated	1180	mg/L				1	A1030 E	06/15/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	06/15/10 00:00/lkl

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.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 100429A-ALK-SEL-W	
Sample ID: LCS1_100429A	Laboratory Control Sample					Run: PH_COND1-R_100429A			04/29/10 15:07	
Alkalinity, Total as CaCO3		976	mg/L	5.0	98	90	110			
Sample ID: MBLK1_100429A	Method Blank					Run: PH_COND1-R_100429A			04/29/10 15:29	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10040273-001AMS	Sample Matrix Spike					Run: PH_COND1-R_100429A			04/29/10 15:56	
Alkalinity, Total as CaCO3		326	mg/L	5.0	106	80	120			
Sample ID: R10040273-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100429A			04/29/10 16:01	
Alkalinity, Total as CaCO3		326	mg/L	5.0	106	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100427_1_COND-PROBE-W	
Sample ID: LCS1-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:29	
Conductivity @ 25 C		150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:37	
Conductivity @ 25 C		5230	umhos/cm	5.0	105	90	110			
Sample ID: LCS_COND-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:40	
Conductivity @ 25 C		1420	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100427		Method Blank				Run: PH_COND2-R_100427B			04/27/10 10:42	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10040303-001ADUP		Sample Duplicate				Run: PH_COND2-R_100427B			04/27/10 10:46	
Conductivity @ 25 C		1300	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100426A-SLDS-TDS-W	
Sample ID: LCS1_100426A		Laboratory Control Sample				Run: BAL-4-R_100426A			04/26/10 15:11	
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	101	90	110			
Sample ID: MBLK1_100426A		Method Blank				Run: BAL-4-R_100426A			04/26/10 15:12	
Solids, Total Dissolved TDS @ 180 C		10	mg/L	5						
Sample ID: R10040305-002AMS		Sample Matrix Spike				Run: BAL-4-R_100426A			04/26/10 15:20	
Solids, Total Dissolved TDS @ 180 C		16000	mg/L	10	77	90	110			S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 100428-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND2-R_100428A			04/28/10 16:00	
Oxidation-Reduction Potential		470	mV		99	95	105			
Sample ID: R10040303-001FDUP	Sample Duplicate					Run: PH_COND2-R_100428A			04/28/10 16:00	
Oxidation-Reduction Potential		230	mV					0.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Analytical Run: SUB-C131969	
Sample ID: As/Se 1.0mg/L-Q 0415		Initial Calibration Verification Standard							04/26/10 10:13	
Selenium-IV		0.053	mg/L	0.0010	107	90	110			
Method: A3114 B									Batch: C_SE3114-100426A	
Sample ID: MBLK		Method Blank				Run: SUB-C131969			04/26/10 10:20	
Selenium-IV		0.0005	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 04151		Laboratory Control Sample				Run: SUB-C131969			04/26/10 10:23	
Selenium-IV		0.053	mg/L	0.0010	104	90	110			
Sample ID: R10040303-001E		Sample Matrix Spike				Run: SUB-C131969			04/26/10 10:29	
Selenium-IV		0.038	mg/L	0.0010	75	85	115			S
Sample ID: R10040303-001E		Sample Matrix Spike Duplicate				Run: SUB-C131969			04/26/10 10:32	
Selenium-IV		0.038	mg/L	0.0010	76	85	115	1.5	10	S
Method: A3114 B									Analytical Run: SUB-C131994	
Sample ID: As/Se 1.0mg/L-Q 0415		Initial Calibration Verification Standard							04/26/10 14:02	
Selenium		0.052	mg/L	0.0010	104	90	110			
Method: A3114 B									Batch: C_SE3114-100426B	
Sample ID: As/Se 1.0ppm-Q 04151		Laboratory Control Sample				Run: SUB-C131994			04/26/10 14:11	
Selenium		0.050	mg/L	0.0010	99	90	110			
Sample ID: MBLK		Method Blank				Run: SUB-C131994			04/26/10 14:16	
Selenium		0.0009	mg/L	0.0002						
Sample ID: R10040303-001E		Sample Matrix Spike				Run: SUB-C131994			04/26/10 14:25	
Selenium		0.044	mg/L	0.0010	87	85	115			
Sample ID: R10040303-001E		Sample Matrix Spike Duplicate				Run: SUB-C131994			04/26/10 14:28	
Selenium		0.046	mg/L	0.0010	91	85	115	5	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100423_1_PH-W	
Sample ID: LCS_pH-1_100423	Laboratory Control Sample				Run: PH_COND2-R_100423A				04/23/10 10:31	
pH		7.43	s.u.	0.010	100	98.55	101.45			

Qualifiers:
RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-05-04_2_NH3_01	
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_100504A			05/04/10 14:11	
Nitrogen, Ammonia as N		0.03	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_100504A			05/04/10 14:12	
Nitrogen, Ammonia as N		0.24	mg/L	0.10	94	90	110			
Sample ID: R10040323-002BMS	Sample Matrix Spike					Run: TECHAA2-R_100504A			05/04/10 16:57	
Nitrogen, Ammonia as N		0.22	mg/L	0.10	88	80	120			
Sample ID: R10040323-002BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_100504A			05/04/10 16:58	
Nitrogen, Ammonia as N		0.22	mg/L	0.10	90	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C132003	
Sample ID: ICV	17	Initial Calibration Verification Standard							04/26/10 11:32	
Silicon		5.1	mg/L	0.0073	103	95	105			
Aluminum		2.4	mg/L	0.10	96	95	105			
Barium		2.5	mg/L	0.10	99	95	105			
Beryllium		1.2	mg/L	0.010	96	95	105			
Boron		2.5	mg/L	0.10	100	95	105			
Calcium		26	mg/L	0.50	104	95	105			
Chromium		2.5	mg/L	0.050	99	95	105			
Copper		2.5	mg/L	0.010	99	95	105			
Iron		2.6	mg/L	0.030	104	95	105			
Magnesium		25	mg/L	0.50	101	95	105			
Manganese		2.5	mg/L	0.010	98	95	105			
Molybdenum		2.5	mg/L	0.10	100	95	105			
Nickel		2.5	mg/L	0.050	102	95	105			
Potassium		24	mg/L	0.50	97	95	105			
Sodium		25	mg/L	0.50	101	95	105			
Strontium		2.5	mg/L	0.10	98	95	105			
Silica		11	mg/L	0.016	103	95	105			
Sample ID: ICSA	17	Interference Check Sample A							04/26/10 11:48	
Silicon		0.0068	mg/L	0.0073		0	0			
Aluminum		520	mg/L	0.10	103	90	110			
Barium		0.00020	mg/L	0.10		0	0			
Beryllium		0.00010	mg/L	0.010		0	0			
Boron		0.0048	mg/L	0.61		0	0			
Calcium		500	mg/L	0.50	100	90	110			
Chromium		0.00070	mg/L	0.050		0	0			
Copper		0.0081	mg/L	0.010		0	0			
Iron		190	mg/L	0.030	94	90	110			
Magnesium		520	mg/L	0.50	105	90	110			
Manganese		-0.0038	mg/L	0.010		0	0			
Molybdenum		-0.0056	mg/L	0.10		0	0			
Nickel		-0.00070	mg/L	0.050		0	0			
Potassium		0.0023	mg/L	0.50		0	0			
Sodium		0.17	mg/L	0.50		0	0			
Strontium		-0.00050	mg/L	0.10		0	0			
Silica		0.015	mg/L	0.016		0	0			
Sample ID: ICSAB	17	Interference Check Sample AB							04/26/10 11:52	
Silicon		0.010	mg/L	0.0073		0	0			
Aluminum		510	mg/L	0.10	103	90	120			
Barium		0.51	mg/L	0.10	103	90	110			
Beryllium		0.48	mg/L	0.010	97	90	110			
Boron		0.0053	mg/L	0.61		0	0			
Calcium		490	mg/L	0.50	99	90	110			
Chromium		0.49	mg/L	0.050	98	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C132003	
Sample ID: ICSAB	17	Interference Check Sample AB							04/26/10 11:52	
Copper		0.53	mg/L	0.010	105	90	110			
Iron		180	mg/L	0.030	92	90	110			
Magnesium		520	mg/L	0.50	103	90	110			
Manganese		0.48	mg/L	0.010	95	90	110			
Molybdenum		-0.0043	mg/L	0.10		0	0			
Nickel		0.96	mg/L	0.050	96	90	110			
Potassium		0.0032	mg/L	0.50		0	0			
Sodium		0.028	mg/L	0.50		0	0			
Strontium		-0.00050	mg/L	0.10		0	0			
Silica		0.022	mg/L	0.016		0	0			
Method: E200.7									Batch: C_R132003	
Sample ID: MB-100426A	16	Method Blank				Run: SUB-C132003			04/26/10 12:18	
Silicon		ND	mg/L	0.06						
Aluminum		ND	mg/L	0.01						
Barium		ND	mg/L	0.0005						
Beryllium		ND	mg/L	0.0002						
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Strontium		ND	mg/L	0.0002						
Sample ID: LFB-100426A	17	Laboratory Fortified Blank				Run: SUB-C132003			04/26/10 12:22	
Silicon		0.45	mg/L	0.0075	95	85	115			
Aluminum		0.90	mg/L	0.10	90	85	115			
Barium		0.92	mg/L	0.10	92	85	115			
Beryllium		0.90	mg/L	0.010	90	85	115			
Boron		0.93	mg/L	0.10	93	85	115			
Calcium		49	mg/L	0.50	97	85	115			
Chromium		0.92	mg/L	0.050	92	85	115			
Copper		0.91	mg/L	0.010	91	85	115			
Iron		0.94	mg/L	0.030	94	85	115			
Magnesium		49	mg/L	0.50	98	85	115			
Manganese		0.89	mg/L	0.010	89	85	115			
Molybdenum		0.93	mg/L	0.10	93	85	115			
Nickel		0.93	mg/L	0.050	93	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R132003
Sample ID: LFB-100426A	17	Laboratory Fortified Blank				Run: SUB-C132003				04/26/10 12:22
Potassium		46	mg/L	0.50	92	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Strontium		0.91	mg/L	0.10	91	85	115			
Silica		0.96	mg/L	0.016	96	85	125			
Sample ID: C10040844-006BMS2	16	Sample Matrix Spike				Run: SUB-C132003				04/26/10 20:20
Aluminum		2.03	mg/L	0.10	99	70	130			
Barium		2.00	mg/L	0.10	96	70	130			
Beryllium		1.91	mg/L	0.010	94	70	130			
Boron		2.03	mg/L	0.10	97	70	130			
Chromium		1.92	mg/L	0.050	94	70	130			
Copper		1.95	mg/L	0.010	96	70	130			
Iron		4.43	mg/L	0.030	93	70	130			
Manganese		2.28	mg/L	0.010	92	70	130			
Molybdenum		1.91	mg/L	0.10	94	70	130			
Nickel		1.88	mg/L	0.050	92	70	130			
Silicon		9.58	mg/L	0.10		70	130			A
Strontium		3.27	mg/L	0.10	94	70	130			
Calcium		205	mg/L	1.0	93	70	130			
Magnesium		114	mg/L	1.0	91	70	130			
Potassium		102	mg/L	1.0	91	70	130			
Sodium		123	mg/L	1.0	95	70	130			
Sample ID: C10040844-006BMSD2	16	Sample Matrix Spike Duplicate				Run: SUB-C132003				04/26/10 20:24
Aluminum		2.05	mg/L	0.10	100	70	130	1.1	20	
Barium		1.99	mg/L	0.10	95	70	130	0.8	20	
Beryllium		1.92	mg/L	0.010	94	70	130	0.9	20	
Boron		2.05	mg/L	0.10	98	70	130	0.8	20	
Chromium		1.93	mg/L	0.050	95	70	130	0.4	20	
Copper		1.95	mg/L	0.010	96	70	130	0.1	20	
Iron		4.48	mg/L	0.030	95	70	130	1.1	20	
Manganese		2.28	mg/L	0.010	92	70	130	0.1	20	
Molybdenum		1.94	mg/L	0.10	95	70	130	1.4	20	
Nickel		1.90	mg/L	0.050	93	70	130	1.1	20	
Silicon		9.63	mg/L	0.10		70	130	0.5	20	A
Strontium		3.32	mg/L	0.10	96	70	130	1.3	20	
Calcium		208	mg/L	1.0	95	70	130	1.2	20	
Magnesium		117	mg/L	1.0	94	70	130	2.5	20	
Potassium		103	mg/L	1.0	92	70	130	1.3	20	
Sodium		125	mg/L	1.0	97	70	130	1.6	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: SUB-C132016	
Sample ID: ICV	10	Initial Calibration Verification Standard							04/26/10 14:21	
Antimony		0.0488	mg/L	0.0010	98	90	110			
Arsenic		0.0480	mg/L	0.0010	96	90	110			
Cadmium		0.0497	mg/L	0.0010	99	90	110			
Lead		0.0493	mg/L	0.0010	99	90	110			
Mercury		0.00516	mg/L	0.0010	103	90	110			
Selenium		0.247	mg/L	0.0014	99	90	110			
Silver		0.0518	mg/L	0.0010	104	90	110			
Thallium		0.0480	mg/L	0.0010	96	90	110			
Uranium		0.0481	mg/L	0.00030	96	90	110			
Vanadium		0.0497	mg/L	0.0010	99	90	110			
Sample ID: ICSA	10	Interference Check Sample A							04/26/10 14:28	
Antimony		0.000619	mg/L	0.0010		0	0			
Arsenic		0.000117	mg/L	0.0010		0	0			
Cadmium		2.80E-06	mg/L	0.0010		0	0			
Lead		5.01E-05	mg/L	0.0010		0	0			
Mercury		6.10E-05	mg/L	0.0010		0	0			
Selenium		0.000209	mg/L	0.0014		0	0			
Silver		0.000180	mg/L	0.0010		0	0			
Thallium		2.81E-05	mg/L	0.0010		0	0			
Uranium		2.84E-05	mg/L	0.00030		0	0			
Vanadium		2.45E-05	mg/L	0.0010		0	0			
Sample ID: ICSAB	10	Interference Check Sample AB							04/26/10 14:35	
Antimony		0.000157	mg/L	0.0010		0	0			
Arsenic		0.0111	mg/L	0.0010	111	70	130			
Cadmium		0.0109	mg/L	0.0010	109	70	130			
Lead		2.62E-05	mg/L	0.0010		0	0			
Mercury		4.01E-05	mg/L	0.0010		0	0			
Selenium		3.50E-06	mg/L	0.0014		0	0			
Silver		0.0106	mg/L	0.0010	106	70	130			
Thallium		1.78E-05	mg/L	0.0010		0	0			
Uranium		1.05E-05	mg/L	0.00030		0	0			
Vanadium		-0.000133	mg/L	0.0010		0	0			
Method: E200.8									Batch: C_R132016	
Sample ID: LRB	10	Method Blank				Run: SUB-C132016			04/26/10 15:09	
Antimony		0.0001	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Cadmium		ND	mg/L	6E-05						
Lead		ND	mg/L	2E-05						
Mercury		ND	mg/L	4E-05						
Selenium		ND	mg/L	0.001						
Silver		0.0001	mg/L	2E-05						
Thallium		ND	mg/L	3E-05						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env.	Project Name, PWS, Permit, Etc. Powertech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Powertech	Contact Name: Allen Scott Phone/Fax: 673-9079	Email:	Sampler: (Please Print)
Invoice Address: Powertech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI 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

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	SEE ATTACHED	Normal Turnaround (TAT)
1 DP-09-21-1	4-21-10		Water	As per Quote	
2 DP-09-21-2	4-21-10		Water		
3					
4					
5					
6					
7					
8					
9					
10					

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.6 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

LABORATORY USE ONLY: R1004033-001 002

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	4-22-10 7:40				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory: Steve Froiland	Date/Time: 4-22-10 8:00	Signature:

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, and links.

ANALYTICAL SUMMARY REPORT

September 10, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10050253

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 5/18/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10050253-001	DB-09-21-01	05/17/10 0:00	05/18/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10050253-002	DB-09-21-02	05/17/10 0:00	05/18/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by Linda Larson
Date: 2010.09.10 10:33:22 -06:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10050253

Revised Date: 09/10/10
Report Date: 06/29/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.
Comments imported for SUBBED Workorder: C10050710
RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10050710
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.

This report is being re-issued due to a change in the report that was made following the original issuance of the report. The reason for this re-issuance is due to the following.
- The Gross Gamma was re-reported

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.

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

Revised Date: 09/10/10
Client: Powertech USA Inc
Report Date: 06/29/10
Project: Dewey Groundwater Sampling
Collection Date: 05/17/10
Lab ID: R10050253-001
Date Received: 05/18/10
Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	130	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Bicarbonate as HCO3	158	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Calcium	81	mg/L	D	1		5	E200.7	05/25/10 14:33/eli-c
Chloride	8	mg/L		5		1	E300.0	05/22/10 12:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Magnesium	29.4	mg/L		0.5		5	E200.7	05/25/10 14:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/02/10 13:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	05/25/10 14:33/eli-c
Sodium	166	mg/L	D	1		5	E200.7	05/25/10 14:33/eli-c
Sulfate	542	mg/L		1		20	E300.0	05/19/10 01:18/jmh
Silica	7.5	mg/L		0.2		1	E200.8	05/24/10 23:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm	B	5.0		1	A2510 B	05/20/10 17:14/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/24/10 17:30/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	05/20/10 16:29/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	06/28/10 17:08/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5		1	A2540 C	05/24/10 16:41/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/24/10 23:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/24/10 23:15/eli-c
Iron	ND	mg/L		0.03		1	E200.8	05/24/10 23:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	05/24/10 23:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/24/10 23:15/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/26/10 18:13/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/24/10 23:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/24/10 23:15/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/02/10 08:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/26/10 16:34/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/26/10 18:41/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.9	pCi/L	U			1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha MDC	5.2	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta	8.4	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta MDC	3.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Lead 210	0.02	pCi/L	U			1	E909.0M	06/11/10 15:59/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	06/11/10 15:59/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	06/11/10 15:59/eli-c
Polonium 210	-0.060	pCi/L	U			1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 MDC	1.1	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 precision (±)	0.40	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Radium 226	1.6	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Thorium 230	0.03	pCi/L	U			1	E907.0	05/27/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Gross Gamma	420	pCi/L				1	E901.1	05/27/10 06:15/eli-c
Gross Gamma precision (±)	110	pCi/L				1	E901.1	05/27/10 06:15/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.3	pCi/L	U			1	E909.0M	06/13/10 16:36/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	06/13/10 16:36/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	06/13/10 16:36/eli-c
Polonium 210	0.077	pCi/L	U			1	E912.0	06/07/10 08:49/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	06/07/10 08:49/eli-ca

Report Definitions:
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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

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.62	pCi/L				1	E912.0	06/07/10 08:49/eli-ca
Radium 226	0.3	pCi/L	U			1	E903.0	06/18/10 08:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/18/10 08:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/18/10 08:33/eli-c
Thorium 230	-0.4	pCi/L	U			1	E907.0	06/04/10 10:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	06/04/10 10:06/eli-c
- See Case Narrative regarding Pb210 analysis.								
- See Case Narrative regarding Ra226 analysis.								
- See Case Narrative regarding Th230 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	157	pCi/L		100		1	D5072-92	05/19/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/14/10 18:45/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/24/10 16:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/24/10 16:30/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/24/10 16:30/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/24/10 16:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/24/10 16:30/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/24/10 16:30/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/24/10 16:30/eli-c
Iron	0.22	mg/L		0.03		1	E200.8	05/24/10 16:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/24/10 16:30/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	05/24/10 16:30/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/26/10 13:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	05/24/10 16:30/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/24/10 16:30/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	05/24/10 16:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/24/10 16:30/eli-c
Strontium	2.4	mg/L		0.1		1	E200.8	05/24/10 16:30/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/24/10 16:30/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/24/10 16:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/24/10 16:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.470	%				1	A1030 E	06/29/10 00:00/lkl
Anions	14.1	meq/L				1	A1030 E	06/29/10 00:00/lkl
Cations	14.0	meq/L				1	A1030 E	06/29/10 00:00/lkl
Solids, Total Dissolved Calculated	937	mg/L				1	A1030 E	06/29/10 00:00/lkl

Report Definitions:
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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

Revised Date: 09/10/10
Client: Powertech USA Inc
Report Date: 06/29/10
Project: Dewey Groundwater Sampling
Collection Date: 05/17/10
Lab ID: R10050253-001
Date Received: 05/18/10
Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.900					1	A1030 E	06/29/10 00:00/lkl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Calcium	168	mg/L	D	1		5	E200.7	05/25/10 14:37/eli-c
Chloride	10	mg/L		5		1	E300.0	05/22/10 12:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Magnesium	47.2	mg/L		0.5		5	E200.7	05/25/10 14:37/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/02/10 13:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	05/25/10 14:37/eli-c
Sodium	130	mg/L	D	1		5	E200.7	05/25/10 14:37/eli-c
Sulfate	694	mg/L		1		20	E300.0	05/19/10 01:51/jmh
Silica	6.7	mg/L		0.2		1	E200.8	05/24/10 23:21/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm	B	5.0		1	A2510 B	05/20/10 17:15/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/24/10 17:30/jmh
pH	7.47	s.u.		0.01		1	A4500-H B	05/20/10 16:32/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	06/28/10 17:08/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	05/24/10 16:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/24/10 23:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
Iron	ND	mg/L		0.03		1	E200.8	05/24/10 23:21/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Manganese	0.54	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/24/10 23:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/26/10 18:20/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Revised Date: 09/10/10
Client: Powertech USA Inc — **Report Date:** 06/29/10
Project: Dewey Groundwater Sampling — **Collection Date:** 05/17/10
Lab ID: R10050253-002 — **Date Received:** 05/18/10
Client Sample ID: DB-09-21-02 — **Matrix:** AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0086	mg/L		0.0003		1	E200.8	05/24/10 23:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/02/10 08:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/26/10 16:41/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/27/10 10:48/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	40.1	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha MDC	6.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta	25.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta MDC	4.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Lead 210	2.2	pCi/L	U			1	E909.0M	06/11/10 18:01/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	06/11/10 18:01/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	06/11/10 18:01/eli-c
Polonium 210	-0.060	pCi/L	U			1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 MDC	1.1	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 precision (±)	0.39	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Radium 226	1.9	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Thorium 230	0.006	pCi/L	U			1	E907.0	05/27/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	05/27/10 06:15/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	05/27/10 06:15/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	06/13/10 18:37/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	06/13/10 18:37/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	06/13/10 18:37/eli-c
Polonium 210	0.061	pCi/L	U			1	E912.0	06/07/10 08:49/eli-ca
Polonium 210 precision (±)	0.37	pCi/L				1	E912.0	06/07/10 08:49/eli-ca

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

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.80	pCi/L				1	E912.0	06/07/10 08:49/eli-ca
Radium 226	0.6	pCi/L				1	E903.0	06/18/10 08:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/18/10 08:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/18/10 08:33/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	06/04/10 10:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	06/04/10 10:06/eli-c
- See Case Narrative regarding Pb210 analysis.								
- See Case Narrative regarding Th230 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	303	pCi/L		100		1	D5072-92	05/19/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/03/10 13:29/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/25/10 09:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/25/10 09:15/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/25/10 09:15/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/25/10 09:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/25/10 09:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/25/10 09:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/25/10 09:15/eli-c
Iron	ND	mg/L		0.03		1	E200.8	05/25/10 09:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/25/10 09:15/eli-c
Manganese	0.55	mg/L		0.01		1	E200.8	05/25/10 09:15/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/26/10 13:26/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	05/25/10 09:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/25/10 09:15/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	05/25/10 09:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/03/10 01:15/eli-c
Strontium	2.3	mg/L		0.1		1	E200.8	05/25/10 09:15/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/25/10 09:15/eli-c
Uranium	0.0088	mg/L		0.0003		1	E200.8	05/25/10 09:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/25/10 09:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.36	%				1	A1030 E	06/29/10 00:00/lkl
Anions	18.8	meq/L				1	A1030 E	06/29/10 00:00/lkl
Cations	18.3	meq/L				1	A1030 E	06/29/10 00:00/lkl
Solids, Total Dissolved Calculated	1200	mg/L				1	A1030 E	06/29/10 00:00/lkl
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	06/29/10 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

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 100527A-ALK-SEL-W	
Sample ID: LCS1_100527A	Laboratory Control Sample					Run: PH_COND1-R_100527A			05/27/10 10:12	
Alkalinity, Total as CaCO3		960	mg/L	5.0	96	90	110			
Sample ID: MBLK1_100527A	Method Blank					Run: PH_COND1-R_100527A			05/27/10 10:17	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10050253-001AMS	Sample Matrix Spike					Run: PH_COND1-R_100527A			05/27/10 11:03	
Alkalinity, Total as CaCO3		230	mg/L	5.0	94	80	120			
Sample ID: R10050253-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100527A			05/27/10 11:06	
Alkalinity, Total as CaCO3		232	mg/L	5.0	96	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100520_1_COND-PROBE-W	
Sample ID: LCS1-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 16:50	
Conductivity @ 25 C		148	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 16:52	
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100520		Method Blank				Run: PH_COND2-R_100520B			05/20/10 16:56	
Conductivity @ 25 C		400	umhos/cm	5						
Sample ID: LCS_COND-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 17:01	
Conductivity @ 25 C		1420	umhos/cm	5.0	100	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100524A-SLDS-TDS-W	
Sample ID: LCS1_100524A		Laboratory Control Sample				Run: BAL-4-R_100524B			05/24/10 16:34	
Solids, Total Dissolved TDS @ 180 C		200	mg/L	10	98	90	110			
Sample ID: MBLK1_100524A		Method Blank				Run: BAL-4-R_100524B			05/24/10 16:34	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10050253-001ADUP		Sample Duplicate				Run: BAL-4-R_100524B			05/24/10 16:42	
Solids, Total Dissolved TDS @ 180 C		840	mg/L	10					5	
Sample ID: R10050253-002AMS		Sample Matrix Spike				Run: BAL-4-R_100524B			05/24/10 16:45	
Solids, Total Dissolved TDS @ 180 C		2100	mg/L	10	97	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 100524-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_100524A			05/24/10 17:30	
Oxidation-Reduction Potential		470	mV		99	95	105			
Sample ID: R10050253-001F	Sample Duplicate					Run: PH_COND1-R_100524A			05/24/10 17:30	
Oxidation-Reduction Potential		250	mV					1.4	10	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_26210
Sample ID: MB-26210		Method Blank				Run: SUB-C133182				05/26/10 16:27
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-26210		Laboratory Control Sample				Run: SUB-C133182				05/26/10 16:30
Selenium-IV		0.049	mg/L	0.0010	98	90	110			
Sample ID: R10050253-001E		Sample Matrix Spike				Run: SUB-C133182				05/26/10 16:36
Selenium-IV		0.047	mg/L	0.0010	94	85	115			
Sample ID: R10050253-001E		Sample Matrix Spike Duplicate				Run: SUB-C133182				05/26/10 16:39
Selenium-IV		0.046	mg/L	0.0010	92	85	115	1.3	10	
Method: A3114 B										Batch: C_26210
Sample ID: MB-26210		Method Blank				Run: SUB-C133188				05/26/10 18:06
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-26210		Laboratory Control Sample				Run: SUB-C133188				05/26/10 18:08
Selenium		0.052	mg/L	0.0010	104	90	110			
Sample ID: R10050253-001E		Sample Matrix Spike				Run: SUB-C133188				05/26/10 18:15
Selenium		0.052	mg/L	0.0010	104	85	115			
Sample ID: R10050253-001E		Sample Matrix Spike Duplicate				Run: SUB-C133188				05/26/10 18:18
Selenium		0.052	mg/L	0.0010	104	85	115	0.2	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100520_1_PH-W	
Sample ID: LCS_pH-1_100520	Laboratory Control Sample					Run: PH_COND2-R_100520A			05/20/10 16:21	
pH		7.43	s.u.	0.010	100	98.55	101.45			
Sample ID: R10050237-003BDUP	Sample Duplicate					Run: PH_COND2-R_100520A			05/20/10 16:27	
pH		8.87	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-06-02_2_NH3_01	
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_100602A			06/02/10 12:12	
Nitrogen, Ammonia as N		0.03	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_100602A			06/02/10 12:13	
Nitrogen, Ammonia as N		0.27	mg/L	0.10	96	90	110			
Sample ID: R10050253-001BMS	Sample Matrix Spike					Run: TECHAA2-R_100602A			06/02/10 13:56	
Nitrogen, Ammonia as N		0.40	mg/L	0.10	96	80	120			
Sample ID: R10050253-001BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_100602A			06/02/10 13:57	
Nitrogen, Ammonia as N		0.38	mg/L	0.10	90	80	120	3.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R133131
Sample ID: MB-100525A	4	Method Blank				Run: SUB-C133131				05/25/10 12:44
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100525A	4	Laboratory Fortified Blank				Run: SUB-C133131				05/25/10 12:48
Calcium		50	mg/L	0.50	100	85	115			
Magnesium		50	mg/L	0.50	99	85	115			
Potassium		49	mg/L	0.82	97	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10040979-001BMS2	4	Sample Matrix Spike				Run: SUB-C133131				05/25/10 13:44
Calcium		110	mg/L	1.0	96	70	130			
Magnesium		111	mg/L	1.0	94	70	130			
Potassium		96.1	mg/L	1.0	90	70	130			
Sodium		260	mg/L	1.0	99	70	130			
Sample ID: C10040979-001BMSD2	4	Sample Matrix Spike Duplicate				Run: SUB-C133131				05/25/10 13:49
Calcium		113	mg/L	1.0	99	70	130	2.2	20	
Magnesium		116	mg/L	1.0	99	70	130	4.5	20	
Potassium		98.6	mg/L	1.0	93	70	130	2.5	20	
Sodium		264	mg/L	1.0	103	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R133067A
Sample ID: R10050253-002D	23	Post Digestion Spike				Run: SUB-C133067				05/24/10 16:44
Aluminum		0.0527	mg/L	0.10	58	70	130			S
Arsenic		0.0535	mg/L	0.0010	104	70	130			
Barium		0.0626	mg/L	0.0010	103	70	130			
Beryllium		0.0430	mg/L	0.010	86	70	130			
Boron		0.108	mg/L	0.10	90	70	130			
Cadmium		0.0498	mg/L	0.010	100	70	130			
Chromium		0.0488	mg/L	0.0010	97	70	130			
Copper		0.0458	mg/L	0.010	91	70	130			
Iron		1.24	mg/L	0.030	97	70	130			
Lead		0.0517	mg/L	0.050	103	70	130			
Manganese		0.589	mg/L	0.010		70	130			A
Mercury		0.00537	mg/L	0.0010	107	70	130			
Molybdenum		0.0475	mg/L	0.0010	95	70	130			
Nickel		0.0468	mg/L	0.0010	93	70	130			
Selenium		0.0549	mg/L	0.0010	110	70	130			
Silicon		3.24	mg/L	0.10		70	130			A
Silver		0.0139	mg/L	0.010	70	70	130			
Strontium		2.28	mg/L	0.10		70	130			A
Thallium		0.0525	mg/L	0.0010	104	70	130			
Thorium 232		0.0539	mg/L	0.0010	107	70	130			
Uranium		0.0626	mg/L	0.00030	108	70	130			
Vanadium		0.0500	mg/L	0.0010	99	70	130			
Zinc		0.0521	mg/L	0.010	97	70	130			
Sample ID: R10050253-002D	23	Post Digestion Spike Duplicate				Run: SUB-C133067				05/24/10 16:50
Aluminum		0.0519	mg/L	0.10	56	70	130		20	S
Arsenic		0.0523	mg/L	0.0010	102	70	130	2.4	20	
Barium		0.0602	mg/L	0.0010	98	70	130	3.9	20	
Beryllium		0.0438	mg/L	0.010	87	70	130	1.7	20	
Boron		0.111	mg/L	0.10	97	70	130	2.9	20	
Cadmium		0.0484	mg/L	0.010	97	70	130	2.9	20	
Chromium		0.0460	mg/L	0.0010	92	70	130	5.9	20	
Copper		0.0449	mg/L	0.010	90	70	130	2	20	
Iron		1.27	mg/L	0.030	99	70	130	2.4	20	
Lead		0.0510	mg/L	0.050	102	70	130	1.5	20	
Manganese		0.596	mg/L	0.010		70	130	1	20	A
Mercury		0.00523	mg/L	0.0010	105	70	130	2.7	20	
Molybdenum		0.0460	mg/L	0.0010	92	70	130	3.2	20	
Nickel		0.0448	mg/L	0.0010	89	70	130	4.5	20	
Selenium		0.0570	mg/L	0.0010	114	70	130	3.7	20	
Silicon		3.36	mg/L	0.10		70	130	3.9	20	A
Silver		0.0120	mg/L	0.010	60	70	130	15	20	S
Strontium		2.18	mg/L	0.10		70	130	4.7	20	A
Thallium		0.0516	mg/L	0.0010	102	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R133067A	
Sample ID: R10050253-002D	23	Post Digestion Spike Duplicate				Run: SUB-C133067			05/24/10 16:50	
Thorium 232		0.0529	mg/L	0.0010	105	70	130	1.9	20	
Uranium		0.0626	mg/L	0.00030	108	70	130	0	20	
Vanadium		0.0470	mg/L	0.0010	93	70	130	6.2	20	
Zinc		0.0519	mg/L	0.010	97	70	130	0.5	20	
Sample ID: C10050737-004BMS4	23	Post Digestion Spike				Run: SUB-C133067			05/25/10 00:17	
Aluminum		0.0456	mg/L	0.0010	91	70	130			
Arsenic		0.0515	mg/L	0.0010	103	70	130			
Barium		0.131	mg/L	0.10	87	70	130			
Beryllium		0.0454	mg/L	0.010	91	70	130			
Boron		0.0863	mg/L	0.0010	86	70	130			
Cadmium		0.0476	mg/L	0.010	95	70	130			
Chromium		0.0486	mg/L	0.0010	97	70	130			
Copper		0.0499	mg/L	0.010	96	70	130			
Iron		1.20	mg/L	0.030	96	70	130			
Lead		0.0491	mg/L	0.0010	98	70	130			
Manganese		0.0479	mg/L	0.010	95	70	130			
Mercury		0.00490	mg/L	0.0010	98	70	130			
Molybdenum		0.0842	mg/L	0.0010	92	70	130			
Nickel		0.0494	mg/L	0.0010	95	70	130			
Selenium		0.0516	mg/L	0.0010	102	70	130			
Silicon		5.51	mg/L	0.10		70	130			A
Silver		0.0120	mg/L	0.010	60	70	130			S
Strontium		0.642	mg/L	0.10		70	130			A
Thallium		0.0497	mg/L	0.0010	99	70	130			
Thorium 232		0.0496	mg/L	0.0010	99	70	130			
Uranium		2.47	mg/L	0.00030		70	130			A
Vanadium		0.0498	mg/L	0.0010	99	70	130			
Zinc		0.0654	mg/L	0.010	99	70	130			
Sample ID: C10050737-004BMSD4	23	Post Digestion Spike Duplicate				Run: SUB-C133067			05/25/10 00:23	
Aluminum		0.0460	mg/L	0.0010	92	70	130	0.9	20	
Arsenic		0.0521	mg/L	0.0010	104	70	130	1.1	20	
Barium		0.134	mg/L	0.10	94	70	130	2.6	20	
Beryllium		0.0467	mg/L	0.010	93	70	130	2.8	20	
Boron		0.0876	mg/L	0.0010	88	70	130	1.4	20	
Cadmium		0.0496	mg/L	0.010	99	70	130	4.2	20	
Chromium		0.0497	mg/L	0.0010	99	70	130	2.3	20	
Copper		0.0502	mg/L	0.010	97	70	130	0.5	20	
Iron		1.23	mg/L	0.030	98	70	130	2.8	20	
Lead		0.0509	mg/L	0.0010	102	70	130	3.7	20	
Manganese		0.0501	mg/L	0.010	99	70	130	4.5	20	
Mercury		0.00509	mg/L	0.0010	102	70	130	3.8	20	
Molybdenum		0.0880	mg/L	0.0010	100	70	130	4.4	20	
Nickel		0.0500	mg/L	0.0010	97	70	130	1.2	20	

Qualifiers:

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

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R133067A	
Sample ID: C10050737-004BMSD4	23	Post Digestion Spike Duplicate				Run: SUB-C133067			05/25/10 00:23	
Selenium		0.0527	mg/L	0.0010	104	70	130	2.1	20	
Silicon		5.44	mg/L	0.10		70	130	1.4	20	A
Silver		0.0125	mg/L	0.010	63	70	130	4.2	20	S
Strontium		0.654	mg/L	0.10		70	130	1.9	20	A
Thallium		0.0516	mg/L	0.0010	103	70	130	3.8	20	
Thorium 232		0.0518	mg/L	0.0010	104	70	130	4.3	20	
Uranium		2.52	mg/L	0.00030		70	130	2	20	A
Vanadium		0.0504	mg/L	0.0010	100	70	130	1.2	20	
Zinc		0.0646	mg/L	0.010	98	70	130	1.3	20	
Sample ID: LRB	23	Method Blank				Run: SUB-C133067			05/24/10 15:14	
Silicon		ND	mg/L	0.0005						
Aluminum		0.0006	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	3E-05						
Boron		-0.0005	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.0002	mg/L	0.0001						
Lead		4E-05	mg/L	2E-05						
Manganese		3E-05	mg/L	2E-05						
Mercury		ND	mg/L	2E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Strontium		ND	mg/L	6E-05						
Thallium		ND	mg/L	2E-05						
Thorium 232		ND	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.0005	mg/L	0.0001						
Sample ID: LFB	23	Laboratory Fortified Blank				Run: SUB-C133067			05/24/10 15:21	
Silicon		0.487	mg/L	0.0010	93	85	115			
Aluminum		0.0490	mg/L	0.0010	97	85	115			
Arsenic		0.0515	mg/L	0.0010	103	85	115			
Barium		0.0507	mg/L	0.0010	101	85	115			
Beryllium		0.0509	mg/L	0.0010	102	85	115			
Boron		0.0514	mg/L	0.0010	104	85	115			
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Chromium		0.0510	mg/L	0.0010	102	85	115			
Copper		0.0524	mg/L	0.0010	105	85	115			

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R133067A
Sample ID: LFB	23	Laboratory Fortified Blank				Run: SUB-C133067				05/24/10 15:21
Iron		1.20	mg/L	0.0010	96	85	115			
Lead		0.0512	mg/L	0.0010	102	85	115			
Manganese		0.0512	mg/L	0.0010	102	85	115			
Mercury		0.00512	mg/L	0.0010	102	85	115			
Molybdenum		0.0501	mg/L	0.0010	100	85	115			
Nickel		0.0519	mg/L	0.0010	104	85	115			
Selenium		0.0524	mg/L	0.0010	105	85	115			
Silver		0.0200	mg/L	0.0010	100	85	115			
Strontium		0.0511	mg/L	0.0010	102	85	115			
Thallium		0.0515	mg/L	0.0010	103	85	115			
Thorium 232		0.0507	mg/L	0.0010	101	85	115			
Uranium		0.0502	mg/L	0.00030	100	85	115			
Vanadium		0.0506	mg/L	0.0010	101	85	115			
Zinc		0.0570	mg/L	0.0010	113	85	115			
Method: E200.8										Batch: C_26223
Sample ID: MB-26223		Method Blank				Run: SUB-C133358				06/02/10 08:01
Uranium		0.0001	mg/L	6E-05						
Sample ID: LCS2-26223		Laboratory Control Sample				Run: SUB-C133358				06/02/10 08:27
Uranium		0.0999	mg/L	0.00030	100	85	115			
Sample ID: C10050737-005CMS4		Post Digestion Spike				Run: SUB-C133358				06/02/10 09:09
Uranium		0.0559	mg/L	0.00030	109	70	130			
Sample ID: C10050737-005CMSD4		Post Digestion Spike Duplicate				Run: SUB-C133358				06/02/10 09:14
Uranium		0.0562	mg/L	0.00030	110	70	130	0.5	20	
Method: E200.8										Batch: C_R133403A
Sample ID: C10050908-003BMS4		Post Digestion Spike				Run: SUB-C133403				06/03/10 04:35
Silver		0.0162	mg/L	0.010	81	70	130			
Sample ID: C10050908-003BMSD4		Post Digestion Spike Duplicate				Run: SUB-C133403				06/03/10 04:41
Silver		0.0157	mg/L	0.010	78	70	130	3.4	20	
Sample ID: LRB		Method Blank				Run: SUB-C133403				06/02/10 15:00
Silver		ND	mg/L	8E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-C133403				06/02/10 15:07
Silver		0.0206	mg/L	0.0010	103	85	115			

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R133470
Sample ID: LRB		Method Blank				Run: SUB-C133470				06/03/10 12:41
Antimony		0.0001	mg/L	0.0001						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-C133470				06/03/10 12:48
Antimony		0.0530	mg/L	0.0010	106	85	115			
Sample ID: C10050684-001BMS4		Post Digestion Spike				Run: SUB-C133470				06/03/10 13:15
Antimony		0.0560	mg/L	0.0010	112	70	130			
Sample ID: C10050684-001BMSD4		Post Digestion Spike Duplicate				Run: SUB-C133470				06/03/10 13:22
Antimony		0.0561	mg/L	0.0010	112	70	130	0.3	20	
Method: E200.8										Batch: C_R133814
Sample ID: LRB		Method Blank				Run: SUB-C133814				06/14/10 12:44
Antimony		ND	mg/L	0.0001						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-C133814				06/14/10 12:51
Antimony		0.0509	mg/L	0.0010	102	85	115			
Sample ID: R10050253-001D		Post Digestion Spike				Run: SUB-C133814				06/14/10 18:52
Antimony		0.0577	mg/L	0.050	115	70	130			
Sample ID: R10050253-001D		Post Digestion Spike Duplicate				Run: SUB-C133814				06/14/10 18:59
Antimony		0.0577	mg/L	0.050	115	70	130	0	20	

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B148233	
Sample ID: QCS		Initial Calibration Verification Standard							05/26/10 13:07	
Mercury		0.0019	mg/L	0.0010	97	90	110			
Method: E245.1									Batch: B_46506	
Sample ID: MB-46506		Method Blank				Run: SUB-B148233			05/26/10 13:11	
Mercury		ND	mg/L	5E-05						
Sample ID: LCS-46506		Laboratory Control Sample				Run: SUB-B148233			05/26/10 13:13	
Mercury		0.0019	mg/L	0.0010	93	85	115			
Sample ID: B10051125-001BMS		Sample Matrix Spike				Run: SUB-B148233			05/26/10 13:16	
Mercury		0.0019	mg/L	0.0010	96	70	130			
Sample ID: B10051125-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B148233			05/26/10 13:18	
Mercury		0.0018	mg/L	0.0010	91	70	130	5.3	30	

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100518A	
Sample ID: CCV051810-22	4	Continuing Calibration Verification Standard							05/18/10 22:34	
Fluoride		7.20	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		7.12	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N		7.44	mg/L	0.10	99	90	110			
Sulfate		75.6	mg/L	1.0	101	90	110			
Method: E300.0									Batch: R46049	
Sample ID: LFB051810-10	4	Laboratory Fortified Blank				Run: DIONEX_100518A			05/18/10 18:44	
Fluoride		4.61	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N		4.52	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N		5.38	mg/L	0.10	108	90	110			
Sulfate		45.9	mg/L	1.0	92	90	110			
Sample ID: R10050251-003AMS	4	Sample Matrix Spike				Run: DIONEX_100518A			05/18/10 23:23	
Fluoride		24.1	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N		65.4	mg/L	0.13	57	90	110			S
Nitrogen, Nitrite as N		24.7	mg/L	0.29	99	90	110			
Sulfate		726	mg/L	1.0	57	90	110			S
Sample ID: R10050251-003AMSD	4	Sample Matrix Spike Duplicate				Run: DIONEX_100518A			05/18/10 23:40	
Fluoride		24.7	mg/L	0.10	94	90	110	2.8	10	
Nitrogen, Nitrate as N		66.4	mg/L	0.13	61	90	110	1.5	10	S
Nitrogen, Nitrite as N		25.3	mg/L	0.29	101	90	110	2.4	10	
Sulfate		737	mg/L	1.0	61	90	110	1.5	10	S
Sample ID: R10050264-001CMS	4	Sample Matrix Spike				Run: DIONEX_100518A			05/19/10 03:13	
Fluoride		5.15	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N		4.92	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N		5.16	mg/L	0.10	103	90	110			
Sulfate		73.0	mg/L	1.0	98	90	110			
Sample ID: R10050264-001CMSD	4	Sample Matrix Spike Duplicate				Run: DIONEX_100518A			05/19/10 03:29	
Fluoride		5.13	mg/L	0.10	92	90	110	0.4	10	
Nitrogen, Nitrate as N		4.87	mg/L	0.10	97	90	110	1	10	
Nitrogen, Nitrite as N		5.10	mg/L	0.10	102	90	110	1.1	10	
Sulfate		72.5	mg/L	1.0	97	90	110	0.7	10	

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100521A	
Sample ID: CCV052110-46		Continuing Calibration Verification Standard							05/22/10 09:00	
Chloride		72.7	mg/L	5.0	97	90	110			
Method: E300.0									Batch: R46121	
Sample ID: LFB052110-10		Laboratory Fortified Blank				Run: DIONEX_100521A			05/21/10 20:46	
Chloride		22.5	mg/L	5.0	90	90	110			
Sample ID: R10050162-001BMS		Sample Matrix Spike				Run: DIONEX_100521A			05/22/10 09:54	
Chloride		1150	mg/L	5.4	79	90	110			S
Sample ID: R10050162-001BMSD		Sample Matrix Spike Duplicate				Run: DIONEX_100521A			05/22/10 10:12	
Chloride		1160	mg/L	5.4	80	90	110	0.4	10	S

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QA/QC Summary Report

Revised Date: 09/10/10
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Work Order: R10050253

Client: Powertech USA Inc
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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-0909
Sample ID: MB-GrAB-0909	6	Method Blank				Run: SUB-C133323				05/28/10 03:36
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.8	pCi/L							
Gross Beta		-3	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0909		Laboratory Control Sample				Run: SUB-C133323				05/28/10 03:36
Gross Alpha		94	pCi/L		93	70	130			
Sample ID: Cs137-GrAB-0909		Laboratory Control Sample				Run: SUB-C133323				05/28/10 03:36
Gross Beta		87	pCi/L		100	70	130			
Sample ID: C10050458-009AMS		Sample Matrix Spike				Run: SUB-C133323				05/29/10 01:18
Gross Alpha		120	pCi/L		119	70	130			
Sample ID: C10050458-009AMSD		Sample Matrix Spike Duplicate				Run: SUB-C133323				05/29/10 01:18
Gross Alpha		120	pCi/L		113	70	130	5.1	20.1	
Sample ID: C10050458-009AMS		Sample Matrix Spike				Run: SUB-C133323				05/29/10 01:18
Gross Beta		82	pCi/L		88	70	130			
Sample ID: C10050458-009AMSD		Sample Matrix Spike Duplicate				Run: SUB-C133323				05/29/10 01:18
Gross Beta		86	pCi/L		92	70	130	4.5	16.4	
Sample ID: C10050705-001DDUP	6	Sample Duplicate				Run: SUB-C133323				05/29/10 01:18
Gross Alpha		820	pCi/L					6.7	14.2	
Gross Alpha precision (±)		18	pCi/L							
Gross Alpha MDC		4.1	pCi/L							
Gross Beta		200	pCi/L					4	14	
Gross Beta precision (±)		3.9	pCi/L							
Gross Beta MDC		2.9	pCi/L							

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R133449
Sample ID: LCS-R133449	3	Laboratory Control Sample				Run: SUB-C133449				05/27/10 06:15
Americium 241		690	pCi/L	20	85	70	130			
Cesium 137		990	pCi/L	20	97	70	130			
Potassium 40		6300	pCi/L	20	94	70	130			
Sample ID: MB-R133449	4	Method Blank				Run: SUB-C133449				05/27/10 06:15
Bismuth 214		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10050253-002H	2	Sample Duplicate				Run: SUB-C133449				05/27/10 06:15
Bismuth 214		ND	pCi/L	20					30	U
Gross Gamma		ND	pCi/L					0	30	

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QA/QC Summary Report

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Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4544
Sample ID: C10050641-007AMS		Sample Matrix Spike				Run: SUB-C133373				06/02/10 10:57
Radium 226		18	pCi/L		110	70	130			
Sample ID: C10050641-007AMSD		Sample Matrix Spike Duplicate				Run: SUB-C133373				06/02/10 12:29
Radium 226		17	pCi/L		109	70	130	0.9	23.4	
Sample ID: MB-RA226-4544	3	Method Blank				Run: SUB-C133373				06/02/10 12:29
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4544		Laboratory Control Sample				Run: SUB-C133373				06/02/10 12:29
Radium 226		8.8	pCi/L		113	70	130			
Method: E903.0										Batch: C_R133983
Sample ID: C10050920-002AMS		Sample Matrix Spike				Run: SUB-C133983				06/18/10 08:32
Radium 226		8.7	pCi/g-dry		112	70	130			
Sample ID: C10050920-002AMSD		Sample Matrix Spike Duplicate				Run: SUB-C133983				06/18/10 08:32
Radium 226		8.6	pCi/g-dry		112	70	130	0.4	23.7	
Sample ID: LCS-26223		Laboratory Control Sample				Run: SUB-C133983				06/18/10 08:32
Radium 226		18	pCi/L		116	70	130			
Sample ID: MB-26223	3	Method Blank				Run: SUB-C133983				06/18/10 08:32
Radium 226		0.3	pCi/L							U
Radium 226 precision (±)		0.3	pCi/L							
Radium 226 MDC		0.3	pCi/L							

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_RA-TH-ISO-1179
Sample ID: LCS-RA-TH-ISO-1179		Laboratory Control Sample				Run: SUB-C133256				05/27/10 08:45
Thorium 230		4.9	pCi/L		93	70	130			
Sample ID: R10050253-002H		Sample Matrix Spike				Run: SUB-C133256				05/27/10 08:45
Thorium 230		12	pCi/L		95	70	130			
Sample ID: R10050253-002H		Sample Matrix Spike Duplicate				Run: SUB-C133256				05/27/10 08:45
Thorium 230		11	pCi/L		86	70	130	10	38.3	
Sample ID: MB-RA-TH-ISO-1179	3	Method Blank				Run: SUB-C133256				05/27/10 08:45
Thorium 230		0.006	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.06	pCi/L							
Method: E907.0										Batch: C_R133616
Sample ID: LCS-26223		Laboratory Control Sample				Run: SUB-C133616				06/04/10 10:06
Thorium 230		4.6	pCi/L		98	70	130			
Sample ID: MB-26223	3	Method Blank				Run: SUB-C133616				06/04/10 10:06
Thorium 230		-0.2	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							
Sample ID: C10050803-001DMS		Sample Matrix Spike				Run: SUB-C133616				06/04/10 10:06
Thorium 230		4.7	pCi/L		108	70	130			
Sample ID: C10050803-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C133616				06/04/10 10:06
Thorium 230		5.6	pCi/L		125	70	130	16	45.6	
Sample ID: LCS-26241		Laboratory Control Sample				Run: SUB-C133616				06/04/10 10:06
Thorium 230		4.9	pCi/L		101	70	130			
Sample ID: MB-26241	3	Method Blank				Run: SUB-C133616				06/04/10 10:06
Thorium 230		-0.06	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: C_PB-210-0712
Sample ID: C10050659-006AMS		Sample Matrix Spike				Run: SUB-C133793				06/13/10 12:33
Lead 210		113	pCi/g-dry		109	70	130			
Sample ID: C10050659-006AMSD		Sample Matrix Spike Duplicate				Run: SUB-C133793				06/13/10 14:34
Lead 210		108	pCi/g-dry		104	70	130	4.8	17	
Sample ID: MB-26211	3	Method Blank				Run: SUB-C133793				06/13/10 20:39
Lead 210		ND	pCi/g-dry							U
Lead 210 precision (±)		0.02	pCi/g-dry							
Lead 210 MDC		0.03	pCi/g-dry							
Sample ID: MB-26223	3	Method Blank				Run: SUB-C133793				06/13/10 22:40
Lead 210		5	pCi/L							U
Lead 210 precision (±)		20	pCi/L							
Lead 210 MDC		30	pCi/L							
Sample ID: LCS-26211		Laboratory Control Sample				Run: SUB-C133793				06/14/10 00:42
Lead 210		60.7	pCi/g-dry		116	70	130			
Sample ID: LCS-26223		Laboratory Control Sample				Run: SUB-C133793				06/14/10 02:44
Lead 210		650	pCi/L		124	70	130			
Method: E909.0M										Batch: C_PB-210-0710
Sample ID: C09110441-001GMS		Sample Matrix Spike				Run: SUB-C133803				06/12/10 06:10
Lead 210		240	pCi/L		107	70	130			
Sample ID: C09110441-001GMSD		Sample Matrix Spike Duplicate				Run: SUB-C133803				06/12/10 08:11
Lead 210		230	pCi/L		102	70	130	4.6	17.8	
Sample ID: MB-PB-210-0710	3	Method Blank				Run: SUB-C133803				06/12/10 10:13
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-PB-210-0710		Laboratory Control Sample				Run: SUB-C133803				06/12/10 14:16
Lead 210		100	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_R133609
Sample ID: LCS-26223		Laboratory Control Sample				Run: SUB-C133609				06/07/10 08:48
Polonium 210		76	pCi/L		97	70	130			
Sample ID: MB-26223	3	Method Blank				Run: SUB-C133609				06/07/10 08:48
Polonium 210		0.7	pCi/L							U
Polonium 210 precision (±)		2	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: C10050803-004DMS		Sample Matrix Spike				Run: SUB-C133609				06/07/10 11:03
Polonium 210		15	pCi/L		104	70	130			
Sample ID: C10050803-004DMSD		Sample Matrix Spike Duplicate				Run: SUB-C133609				06/07/10 11:03
Polonium 210		12	pCi/L		89	70	130	15	58	
Sample ID: LCS-26241		Laboratory Control Sample				Run: SUB-C133609				06/07/10 11:03
Polonium 210		92	pCi/L		118	70	130			
Sample ID: MB-26241	3	Method Blank				Run: SUB-C133609				06/07/10 11:03
Polonium 210		0.3	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Method: E912.0										Batch: C_PO210-0301
Sample ID: R10050253-002K		Sample Matrix Spike				Run: SUB-C133610				06/07/10 08:47
Polonium 210		36	pCi/L		110	70	130			
Sample ID: R10050253-002K		Sample Matrix Spike Duplicate				Run: SUB-C133610				06/07/10 08:47
Polonium 210		32	pCi/L		97	70	130	13	65.4	
Sample ID: LCS-PO210-0301		Laboratory Control Sample				Run: SUB-C133610				06/07/10 08:47
Polonium 210		16	pCi/L		99	70	130			
Sample ID: MB-PO210-0301	3	Method Blank				Run: SUB-C133610				06/07/10 08:47
Polonium 210		-0.05	pCi/L							U
Polonium 210 MDC		0.7	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin State:	EPA/State Compliance:
Scott Env.	Powertech Dewey Burdock		Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
Scott Env., Powertech	Ellen Scott		
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

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

ANALYSIS REQUESTED

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: As per Quote

Shipped by:

Cooler ID(s):

Receipt Temp 3.1 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	DB-09-21-01	5-17-10		Water
2	DB-09-21-02	5-17-10		Water
3				
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY R00050253-001 002

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Ellen Scott	5-19-10 10:38 Am				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Steve Froiland	5-18-10 1038	Signature:

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, and links.

ANALYTICAL SUMMARY REPORT

August 23, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10060444

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 6/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10060444-001	DB-09-21-01	06/22/10 0:00	06/23/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10060444-002	DB-09-21-02	06/22/10 0:00	06/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by Linda Larson
Date: 2010.08.23 09:35:58 -06:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10060444

Report Date: 08/23/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.
Comments imported for SUBBED Workorder: C10061034
RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10061034

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	152	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Bicarbonate as HCO3	185	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Calcium	92	mg/L	D	1		5	E200.7	07/01/10 15:12/eli-c
Chloride	7	mg/L		1		1	E300.0	06/24/10 13:07/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Magnesium	33.6	mg/L		0.5		5	E200.7	07/01/10 15:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/02/10 16:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Nitrogen, Nitrite as N	0.3	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Potassium	11.8	mg/L		0.5		5	E200.7	07/01/10 15:12/eli-c
Sodium	159	mg/L	D	1		5	E200.7	07/01/10 15:12/eli-c
Sulfate	524	mg/L	D	20		20	E300.0	06/24/10 12:49/jmh
Silica	8.2	mg/L		0.2		1	E200.8	06/29/10 00:27/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	07/01/10 12:59/tb
Oxidation-Reduction Potential	330	mV				1	A2580 B	06/29/10 16:30/jmh
pH	7.86	s.u.		0.01		1	A4500-H B	06/28/10 13:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	08/12/10 16:22/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L	D	10		1	A2540 C	06/28/10 12:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/01/10 04:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	07/01/10 15:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/29/10 00:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/29/10 00:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
Iron	ND	mg/L		0.03		1	E200.8	06/29/10 00:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/29/10 00:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/01/10 16:39/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	07/01/10 04:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/29/10 00:27/eli-c

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

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/29/10 00:27/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/10 07:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/01/10 14:55/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/02/10 07:18/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.2	pCi/L	U			1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha precision (±)	4.7	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha MDC	7.1	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta	13.4	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta MDC	4.2	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Lead 210	0.8	pCi/L	U			1	E909.0M	07/11/10 20:11/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	07/11/10 20:11/eli-c
Lead 210 MDC	2.3	pCi/L				1	E909.0M	07/11/10 20:11/eli-c
Polonium 210	0.11	pCi/L	U			1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 MDC	0.54	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Thorium 230	1.2	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Gross Gamma	500	pCi/L				1	E901.1	06/28/10 10:55/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	06/28/10 10:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.7	pCi/L	U			1	E909.0M	07/07/10 08:46/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Polonium 210	-0.036	pCi/L	U			1	E912.0	07/08/10 09:12/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	07/08/10 09:12/eli-ca

Report Definitions:
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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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.64	pCi/L				1	E912.0	07/08/10 09:12/eli-ca
Radium 226	-0.3	pCi/L	U			1	E903.0	07/12/10 22:14/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Thorium 230	-0.4	pCi/L	U			1	E907.0	07/07/10 11:11/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/07/10 11:11/eli-c
- See Case Narrative regarding Pb210 analysis.								
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	243	pCi/L		100		1	D5072-92	06/25/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/02/10 01:52/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	07/02/10 01:52/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/10 23:22/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	07/01/10 23:22/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/01/10 23:22/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	07/01/10 23:22/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/01/10 23:22/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/01/10 23:22/eli-c
Iron	0.31	mg/L		0.03		2	E200.7	07/01/10 23:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/02/10 01:52/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	07/01/10 23:22/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	06/28/10 11:41/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/10 23:22/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/01/10 23:22/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	07/02/10 01:52/eli-c
Silver	ND	mg/L		0.005		2	E200.7	07/01/10 23:22/eli-c
Strontium	2.8	mg/L		0.1		2	E200.7	07/01/10 23:22/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/02/10 01:52/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/02/10 01:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/02/10 01:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.50	%				1	A1030 E	08/19/10 00:00/jmh
Anions	14.2	meq/L				1	A1030 E	08/19/10 00:00/jmh
Cations	14.6	meq/L				1	A1030 E	08/19/10 00:00/jmh
Solids, Total Dissolved Calculated	944	mg/L				1	A1030 E	08/19/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	08/19/10 00:00/jmh

Report Definitions:
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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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	210	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Bicarbonate as HCO3	256	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Calcium	165	mg/L	D	1		5	E200.7	07/01/10 15:16/eli-c
Chloride	9	mg/L		1		1	E300.0	06/24/10 13:42/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	07/01/10 15:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/02/10 16:25/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Potassium	11.8	mg/L		0.5		5	E200.7	07/01/10 15:16/eli-c
Sodium	130	mg/L	D	1		5	E200.7	07/01/10 15:16/eli-c
Sulfate	640	mg/L	D	20		20	E300.0	06/24/10 13:25/jmh
Silica	7.6	mg/L		0.2		1	E200.8	06/29/10 00:33/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm		5.0		1	A2510 B	07/01/10 13:02/tb
Oxidation-Reduction Potential	340	mV				1	A2580 B	06/29/10 16:30/jmh
pH	7.50	s.u.		0.01		1	A4500-H B	06/28/10 13:15/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	08/12/10 16:22/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	06/28/10 12:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/01/10 04:15/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	07/01/10 15:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/29/10 00:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/29/10 00:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
Iron	ND	mg/L		0.03		1	E200.8	06/29/10 00:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Manganese	0.56	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/29/10 00:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/01/10 16:45/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	07/01/10 04:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/29/10 00:33/eli-c

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

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0087	mg/L		0.0003		1	E200.8	06/29/10 00:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/10 07:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/01/10 15:02/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/02/10 07:18/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	34.0	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha precision (±)	7.2	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha MDC	8.8	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta	19.6	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta MDC	5.0	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Lead 210	0.7	pCi/L	U			1	E909.0M	07/11/10 22:13/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	07/11/10 22:13/eli-c
Lead 210 MDC	2.3	pCi/L				1	E909.0M	07/11/10 22:13/eli-c
Polonium 210	-0.042	pCi/L	U			1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 precision (±)	0.22	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Radium 226	2.5	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Thorium 230	0.8	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Gross Gamma	1300	pCi/L				1	E901.1	06/28/10 10:55/eli-c
Gross Gamma precision (±)	310	pCi/L				1	E901.1	06/28/10 10:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.05	pCi/L	U			1	E909.0M	07/07/10 08:46/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Polonium 210	-0.047	pCi/L	U			1	E912.0	07/08/10 09:12/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	07/08/10 09:12/eli-ca

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.85	pCi/L				1	E912.0	07/08/10 09:12/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	07/12/10 22:14/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Thorium 230	-0.2	pCi/L	U			1	E907.0	07/07/10 11:12/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/07/10 11:12/eli-c
- See Case Narrative regarding Ra226 analysis.								
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	338	pCi/L		100		1	D5072-92	06/25/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/12/10 18:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	07/02/10 19:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	07/02/10 19:00/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/02/10 19:00/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/02/10 19:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/02/10 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Manganese	0.57	mg/L		0.01		2	E200.7	07/02/10 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	06/28/10 11:42/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/02/10 19:00/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Silver	ND	mg/L		0.005		2	E200.7	07/02/10 19:00/eli-c
Strontium	2.4	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Uranium	0.0081	mg/L		0.0003		1	E200.8	07/12/10 18:14/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/12/10 18:14/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.900	%				1	A1030 E	08/19/10 00:00/jmh
Anions	17.8	meq/L				1	A1030 E	08/19/10 00:00/jmh
Cations	18.2	meq/L				1	A1030 E	08/19/10 00:00/jmh
Solids, Total Dissolved Calculated	1150	mg/L				1	A1030 E	08/19/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	08/19/10 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: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 100701A-ALK-SEL-W	
Sample ID: LCS1_100701A		Laboratory Control Sample				Run: PH_COND1-R_100701A			07/01/10 10:06	
Alkalinity, Total as CaCO3		972	mg/L	5.0	97	90	110			
Sample ID: MBLK1_100701A		Method Blank				Run: PH_COND1-R_100701A			07/01/10 10:07	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10060398-009AMS		Sample Matrix Spike				Run: PH_COND1-R_100701A			07/01/10 10:58	
Alkalinity, Total as CaCO3		290	mg/L	5.0	89	80	120			
Sample ID: R10060398-009AMSD		Sample Matrix Spike Duplicate				Run: PH_COND1-R_100701A			07/01/10 11:00	
Alkalinity, Total as CaCO3		296	mg/L	5.0	94	80	120	2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100701_1_COND-PROBE-W	
Sample ID: LCS1-1_100701	Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:43	
Conductivity @ 25 C		151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_100701	Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:45	
Conductivity @ 25 C		5010	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100701	Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:47	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100701	Method Blank					Run: PH_COND2-R_100701B			07/01/10 12:49	
Conductivity @ 25 C		8	umhos/cm	5						
Sample ID: R10060424-001JDUP	Sample Duplicate					Run: PH_COND2-R_100701B			07/01/10 12:53	
Conductivity @ 25 C		101	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100628A-SLDS-TDS-W	
Sample ID: LCS1_100628A		Laboratory Control Sample				Run: BAL-4-R_100628A			06/28/10 12:31	
Solids, Total Dissolved TDS @ 180 C		190	mg/L	10	95	90	110			
Sample ID: MBLK1_100628A		Method Blank				Run: BAL-4-R_100628A			06/28/10 12:32	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10060444-001ADUP		Sample Duplicate				Run: BAL-4-R_100628A			06/28/10 12:45	
Solids, Total Dissolved TDS @ 180 C		910	mg/L	10					5	
Sample ID: R10060444-002ADUP		Sample Duplicate				Run: BAL-4-R_100628A			06/28/10 12:48	
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10				0.9	5	
Sample ID: R10060477-001CMS		Sample Matrix Spike				Run: BAL-4-R_100628A			06/28/10 12:51	
Solids, Total Dissolved TDS @ 180 C		2300	mg/L	10	105	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 100629-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_100629B			06/29/10 16:30	
Oxidation-Reduction Potential		490	mV		103	95	105			
Sample ID: R10050321-011A	Sample Duplicate					Run: PH_COND1-R_100629B			06/29/10 16:30	
Oxidation-Reduction Potential		510	mV					0.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Analytical Run: SUB-C134466	
Sample ID: As/Se 1.0mg/L-Q 0622		Initial Calibration Verification Standard							07/01/10 14:33	
Selenium-IV		0.052	mg/L	0.0010	104	90	110			
Method: A3114 B									Batch: C_26567	
Sample ID: MB-26567		Method Blank				Run: SUB-C134466			07/01/10 14:40	
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-26567		Laboratory Control Sample				Run: SUB-C134466			07/01/10 14:42	
Selenium-IV		0.051	mg/L	0.0010	102	90	110			
Sample ID: R10060444-001E		Sample Matrix Spike				Run: SUB-C134466			07/01/10 14:57	
Selenium-IV		0.049	mg/L	0.0010	98	85	115			
Sample ID: R10060444-001E		Sample Matrix Spike Duplicate				Run: SUB-C134466			07/01/10 14:59	
Selenium-IV		0.049	mg/L	0.0010	98	85	115	0	10	
Method: A3114 B									Batch: C_26567	
Sample ID: MB-26567		Method Blank				Run: SUB-C134475			07/01/10 16:25	
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-26567		Laboratory Control Sample				Run: SUB-C134475			07/01/10 16:27	
Selenium		0.051	mg/L	0.0010	103	90	110			
Sample ID: R10060444-001E		Sample Matrix Spike				Run: SUB-C134475			07/01/10 16:41	
Selenium		0.053	mg/L	0.0010	105	85	115			
Sample ID: R10060444-001E		Sample Matrix Spike Duplicate				Run: SUB-C134475			07/01/10 16:43	
Selenium		0.052	mg/L	0.0010	103	85	115	2.2	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100628_1_PH-W	
Sample ID: LCS_pH-1_100628		Laboratory Control Sample				Run: PH_COND2-R_100628A			06/28/10 13:03	
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10060444-001ADUP		Sample Duplicate				Run: PH_COND2-R_100628A			06/28/10 13:13	
pH		7.82	s.u.	0.010				0.5	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-07-02_2_NH3_01	
Sample ID: MBLK-2		Method Blank				Run: TECHAA2-R_100702A			07/02/10 12:29	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHAA2-R_100702A			07/02/10 12:31	
Nitrogen, Ammonia as N		0.27	mg/L	0.10	107	90	110			
Sample ID: R10060444-001BMS		Sample Matrix Spike				Run: TECHAA2-R_100702A			07/02/10 16:23	
Nitrogen, Ammonia as N		0.35	mg/L	0.10	104	80	120			
Sample ID: R10060444-001BMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_100702A			07/02/10 16:24	
Nitrogen, Ammonia as N		0.35	mg/L	0.10	102	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_26553
Sample ID: MB-26553	12	Method Blank				Run: SUB-C134477				07/01/10 23:14
Barium		ND	mg/L	0.002						
Beryllium		ND	mg/L	0.0001						
Boron		0.02	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Sample ID: LCS3-26553	12	Laboratory Control Sample				Run: SUB-C134477				07/01/10 23:18
Barium		0.501	mg/L	0.10	100	85	115			
Beryllium		0.255	mg/L	0.010	102	85	115			
Boron		0.515	mg/L	0.10	98	85	115			
Cadmium		0.256	mg/L	0.010	102	85	115			
Chromium		0.502	mg/L	0.050	100	85	115			
Copper		0.504	mg/L	0.010	101	85	115			
Iron		2.51	mg/L	0.030	100	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.499	mg/L	0.10	100	85	115			
Nickel		0.494	mg/L	0.050	99	85	115			
Silver		0.0493	mg/L	0.010	99	85	115			
Strontium		0.509	mg/L	0.10	102	85	115			
Sample ID: C10061061-001CMS3	12	Sample Matrix Spike				Run: SUB-C134477				07/01/10 23:38
Barium		0.645	mg/L	0.10	108	70	130			
Beryllium		0.268	mg/L	0.010	107	70	130			
Boron		0.748	mg/L	0.10	107	70	130			
Cadmium		0.274	mg/L	0.010	110	70	130			
Chromium		0.540	mg/L	0.050	108	70	130			
Copper		0.598	mg/L	0.010	107	70	130			
Iron		3.71	mg/L	0.030	108	70	130			
Manganese		2.69	mg/L	0.010	104	70	130			
Molybdenum		0.549	mg/L	0.10	105	70	130			
Nickel		0.537	mg/L	0.050	105	70	130			
Silver		0.0486	mg/L	0.010	97	70	130			
Strontium		1.18	mg/L	0.10	109	70	130			
Sample ID: C10061061-001CMSD3	12	Sample Matrix Spike Duplicate				Run: SUB-C134477				07/01/10 23:42
Barium		0.639	mg/L	0.10	107	70	130	0.9	20	
Beryllium		0.265	mg/L	0.010	106	70	130	1.3	20	
Boron		0.754	mg/L	0.10	108	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_26553
Sample ID: C10061061-001CMSD3	12	Sample Matrix Spike Duplicate				Run: SUB-C134477				07/01/10 23:42
Cadmium		0.264	mg/L	0.010	106	70	130	3.7	20	
Chromium		0.533	mg/L	0.050	107	70	130	1.3	20	
Copper		0.571	mg/L	0.010	102	70	130	4.8	20	
Iron		3.62	mg/L	0.030	105	70	130	2.6	20	
Manganese		2.66	mg/L	0.010	103	70	130	1	20	
Molybdenum		0.549	mg/L	0.10	105	70	130	0	20	
Nickel		0.532	mg/L	0.050	104	70	130	0.9	20	
Silver		0.0506	mg/L	0.010	101	70	130	4	20	
Strontium		1.18	mg/L	0.10	107	70	130	0.5	20	
Method: E200.7										Batch: C_R134477
Sample ID: MB-100701A	5	Method Blank				Run: SUB-C134477				07/01/10 10:51
Boron		0.02	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100701A	5	Laboratory Fortified Blank				Run: SUB-C134477				07/01/10 10:55
Boron		0.96	mg/L	0.10	94	85	115			
Calcium		49	mg/L	0.50	98	85	115			
Magnesium		49	mg/L	0.50	98	85	115			
Potassium		45	mg/L	0.50	89	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10060982-005BMS2	5	Sample Matrix Spike				Run: SUB-C134477				07/01/10 13:03
Boron		1.92	mg/L	0.10	94	70	130			
Calcium		98.3	mg/L	1.0	94	70	130			
Magnesium		95.0	mg/L	1.0	93	70	130			
Potassium		98.4	mg/L	1.0	96	70	130			
Sodium		97.6	mg/L	1.0	95	70	130			
Sample ID: C10060982-005BMSD2	5	Sample Matrix Spike Duplicate				Run: SUB-C134477				07/01/10 13:07
Boron		1.94	mg/L	0.10	95	70	130	1.3	20	
Calcium		99.1	mg/L	1.0	95	70	130	0.7	20	
Magnesium		96.9	mg/L	1.0	95	70	130	2	20	
Potassium		97.3	mg/L	1.0	95	70	130	1.1	20	
Sodium		98.6	mg/L	1.0	96	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R134533
Sample ID: C10060999-001DMS2	12	Sample Matrix Spike				Run: SUB-C134533				07/02/10 18:52
Barium		2.41	mg/L	0.10	98	70	130			
Beryllium		2.00	mg/L	0.010	98	70	130			
Boron		2.04	mg/L	0.10	99	70	130			
Cadmium		2.00	mg/L	0.010	98	70	130			
Chromium		2.00	mg/L	0.050	98	70	130			
Copper		2.04	mg/L	0.010	100	70	130			
Iron		2.04	mg/L	0.030	98	70	130			
Manganese		2.08	mg/L	0.010	97	70	130			
Molybdenum		1.99	mg/L	0.10	98	70	130			
Nickel		2.02	mg/L	0.050	99	70	130			
Silver		1.94	mg/L	0.010	95	70	130			
Strontium		3.19	mg/L	0.10	100	70	130			
Sample ID: C10060999-001DMSD2	12	Sample Matrix Spike Duplicate				Run: SUB-C134533				07/02/10 18:56
Barium		2.39	mg/L	0.10	97	70	130	0.9	20	
Beryllium		1.98	mg/L	0.010	97	70	130	0.7	20	
Boron		2.04	mg/L	0.10	99	70	130	0.2	20	
Cadmium		1.95	mg/L	0.010	96	70	130	2.4	20	
Chromium		1.95	mg/L	0.050	96	70	130	2.2	20	
Copper		1.99	mg/L	0.010	98	70	130	2.1	20	
Iron		1.99	mg/L	0.030	96	70	130	2.3	20	
Manganese		2.04	mg/L	0.010	95	70	130	1.7	20	
Molybdenum		1.98	mg/L	0.10	97	70	130	0.5	20	
Nickel		2.03	mg/L	0.050	99	70	130	0.5	20	
Silver		1.91	mg/L	0.010	93	70	130	1.6	20	
Strontium		3.16	mg/L	0.10	98	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R134311A	
Sample ID: R10060444-002C	16	Post Digestion Spike				Run: SUB-C134311			06/29/10 01:08	
Arsenic		0.0547	mg/L	0.0010	107	70	130			
Barium		0.0631	mg/L	0.0010	104	70	130			
Cadmium		0.0502	mg/L	0.010	100	70	130			
Chromium		0.0522	mg/L	0.050	104	70	130			
Copper		0.0504	mg/L	0.010	101	70	130			
Iron		1.28	mg/L	0.030	102	70	130			
Lead		0.0535	mg/L	0.050	107	70	130			
Manganese		0.603	mg/L	0.010		70	130			A
Mercury		0.00543	mg/L	0.0010	109	70	130			
Molybdenum		0.0534	mg/L	0.0010	105	70	130			
Nickel		0.0512	mg/L	0.050	101	70	130			
Silicon		4.30	mg/L	0.10		70	130			A
Thorium 232		0.0541	mg/L	0.0010	108	70	130			
Uranium		0.0608	mg/L	0.00030	104	70	130			
Vanadium		0.0536	mg/L	0.0010	106	70	130			
Zinc		0.0536	mg/L	0.010	100	70	130			
Sample ID: R10060444-002C	16	Post Digestion Spike Duplicate				Run: SUB-C134311			06/29/10 01:15	
Arsenic		0.0560	mg/L	0.0010	110	70	130	2.3	20	
Barium		0.0650	mg/L	0.0010	108	70	130	2.9	20	
Cadmium		0.0518	mg/L	0.010	104	70	130	3.2	20	
Chromium		0.0537	mg/L	0.050	107	70	130	2.8	20	
Copper		0.0516	mg/L	0.010	103	70	130	2.2	20	
Iron		1.29	mg/L	0.030	103	70	130	0.6	20	
Lead		0.0551	mg/L	0.050	110	70	130	2.9	20	
Manganese		0.612	mg/L	0.010		70	130	1.6	20	A
Mercury		0.00559	mg/L	0.0010	112	70	130	2.9	20	
Molybdenum		0.0566	mg/L	0.0010	112	70	130	5.7	20	
Nickel		0.0525	mg/L	0.050	104	70	130	2.5	20	
Silicon		4.32	mg/L	0.10		70	130	0.4	20	A
Thorium 232		0.0558	mg/L	0.0010	112	70	130	3.1	20	
Uranium		0.0627	mg/L	0.00030	108	70	130	3.1	20	
Vanadium		0.0551	mg/L	0.0010	109	70	130	2.8	20	
Zinc		0.0542	mg/L	0.010	101	70	130	1.1	20	
Sample ID: LRB	16	Method Blank				Run: SUB-C134311			06/28/10 11:52	
Silicon		0.03	mg/L	0.0005						
Arsenic		8E-05	mg/L	4E-05						
Barium		7E-05	mg/L	3E-05						
Cadmium		7E-05	mg/L	7E-05						
Chromium		7E-05	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.002	mg/L	0.0001						
Lead		6E-05	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						

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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R134311A
Sample ID: LRB	16	Method Blank				Run: SUB-C134311				06/28/10 11:52
Mercury		3E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		8E-05	mg/L	5E-05						
Thorium 232		5E-05	mg/L	3E-05						
Uranium		6E-05	mg/L	8E-06						
Vanadium		5E-05	mg/L	1E-05						
Zinc		0.006	mg/L	0.0001						
Sample ID: LFB	16	Laboratory Fortified Blank				Run: SUB-C134311				06/28/10 11:59
Silicon		0.584	mg/L	0.0050	106	85	115			
Arsenic		0.0533	mg/L	0.0010	106	85	115			
Barium		0.0541	mg/L	0.0010	108	85	115			
Cadmium		0.0551	mg/L	0.0010	110	85	115			
Chromium		0.0530	mg/L	0.0010	106	85	115			
Copper		0.0537	mg/L	0.0010	107	85	115			
Iron		1.30	mg/L	0.012	104	85	115			
Lead		0.0536	mg/L	0.0010	107	85	115			
Manganese		0.0542	mg/L	0.0010	108	85	115			
Mercury		0.00538	mg/L	0.0010	107	85	115			
Molybdenum		0.0537	mg/L	0.0010	107	85	115			
Nickel		0.0534	mg/L	0.0010	107	85	115			
Thorium 232		0.0525	mg/L	0.0010	105	85	115			
Uranium		0.0518	mg/L	0.00030	103	85	115			
Vanadium		0.0524	mg/L	0.0010	105	85	115			
Zinc		0.0564	mg/L	0.0010	101	85	115			
Method: E200.8										Batch: C_R134408
Sample ID: LRB	2	Method Blank				Run: SUB-C134408				06/30/10 11:16
Aluminum		0.0003	mg/L	8E-05						
Silver		0.0003	mg/L	8E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: SUB-C134408				06/30/10 11:23
Aluminum		0.0505	mg/L	0.0010	100	85	115			
Silver		0.0207	mg/L	0.0010	102	85	115			
Sample ID: C10061078-005BMS4	2	Post Digestion Spike				Run: SUB-C134408				07/01/10 05:24
Aluminum		0.0563	mg/L	0.0010	90	70	130			
Silver		0.0191	mg/L	0.010	96	70	130			
Sample ID: C10061078-005BMSD4	2	Post Digestion Spike Duplicate				Run: SUB-C134408				07/01/10 05:30
Aluminum		0.0543	mg/L	0.0010	86	70	130	3.7	20	
Silver		0.0187	mg/L	0.010	93	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_26553
Sample ID: MB-26553	7	Method Blank				Run: SUB-C134490				07/02/10 01:12
Antimony		0.0002	mg/L	0.0002						
Arsenic		0.0008	mg/L	0.0003						
Lead		0.0002	mg/L	5E-05						
Selenium		ND	mg/L	0.0007						
Thallium		ND	mg/L	5E-05						
Uranium		ND	mg/L	4E-05						
Zinc		0.003	mg/L	0.001						
Sample ID: LCS3-26553	7	Laboratory Control Sample				Run: SUB-C134490				07/02/10 01:19
Antimony		0.557	mg/L	0.050	111	85	115			
Arsenic		0.500	mg/L	0.0010	100	85	115			
Lead		0.515	mg/L	0.050	103	85	115			
Selenium		0.508	mg/L	0.0010	102	85	115			
Thallium		0.495	mg/L	0.10	99	85	115			
Uranium		0.550	mg/L	0.00030	110	85	115			
Zinc		0.474	mg/L	0.010	94	85	115			
Sample ID: C10061061-001CMS3	7	Sample Matrix Spike				Run: SUB-C134490				07/02/10 02:39
Antimony		0.589	mg/L	0.050	117	70	130			
Arsenic		0.519	mg/L	0.0010	103	70	130			
Lead		0.558	mg/L	0.050	110	70	130			
Selenium		0.306	mg/L	0.0010	61	70	130			S
Thallium		0.525	mg/L	0.10	105	70	130			
Uranium		0.601	mg/L	0.00030	119	70	130			
Zinc		0.590	mg/L	0.010	91	70	130			
Sample ID: C10061061-001CMSD3	7	Sample Matrix Spike Duplicate				Run: SUB-C134490				07/02/10 02:46
Antimony		0.583	mg/L	0.050	116	70	130	1.1	20	
Arsenic		0.518	mg/L	0.0010	103	70	130	0.1	20	
Lead		0.552	mg/L	0.050	109	70	130	1	20	
Selenium		0.301	mg/L	0.0010	60	70	130	1.9	20	S
Thallium		0.517	mg/L	0.10	103	70	130	1.5	20	
Uranium		0.590	mg/L	0.00030	117	70	130	1.8	20	
Zinc		0.582	mg/L	0.010	89	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_26535
Sample ID: MB-26535		Method Blank				Run: SUB-C134738				07/11/10 07:07
Uranium		0.0003	mg/L	6E-05						
Sample ID: LCS2-26535		Laboratory Control Sample				Run: SUB-C134738				07/11/10 07:11
Uranium		0.110	mg/L	0.00030	110	85	115			
Sample ID: R10060444-002I		Post Digestion Spike				Run: SUB-C134738				07/11/10 07:44
Uranium		0.0138	mg/L	0.00030	111	70	130			
Sample ID: R10060444-002I		Post Digestion Spike Duplicate				Run: SUB-C134738				07/11/10 07:49
Uranium		0.0138	mg/L	0.00030	110	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R134782
Sample ID: LRB	7	Method Blank				Run: SUB-C134782				07/12/10 17:40
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Lead		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0002						
Thallium		ND	mg/L	1E-05						
Uranium		ND	mg/L	1E-05						
Zinc		0.0005	mg/L	0.0003						
Sample ID: LFB	7	Laboratory Fortified Blank				Run: SUB-C134782				07/12/10 17:47
Antimony		0.0502	mg/L	0.0010	100	85	115			
Arsenic		0.0513	mg/L	0.0010	103	85	115			
Lead		0.0505	mg/L	0.0010	101	85	115			
Selenium		0.0510	mg/L	0.0010	102	85	115			
Thallium		0.0491	mg/L	0.0010	98	85	115			
Uranium		0.0489	mg/L	0.00030	98	85	115			
Zinc		0.0574	mg/L	0.0010	114	85	115			
Sample ID: C10070031-001BMS4	7	Post Digestion Spike				Run: SUB-C134782				07/12/10 19:15
Antimony		0.0554	mg/L	0.0010	111	70	130			
Arsenic		0.0528	mg/L	0.0010	102	70	130			
Lead		0.0510	mg/L	0.0010	102	70	130			
Selenium		0.0532	mg/L	0.0010	101	70	130			
Thallium		0.0500	mg/L	0.00040	100	70	130			
Uranium		0.0520	mg/L	0.00030	100	70	130			
Zinc		0.0542	mg/L	0.010	105	70	130			
Sample ID: C10070031-001BMSD4	7	Post Digestion Spike Duplicate				Run: SUB-C134782				07/12/10 19:22
Antimony		0.0556	mg/L	0.0010	111	70	130	0.4	20	
Arsenic		0.0540	mg/L	0.0010	104	70	130	2.2	20	
Lead		0.0512	mg/L	0.0010	102	70	130	0.5	20	
Selenium		0.0534	mg/L	0.0010	102	70	130	0.3	20	
Thallium		0.0504	mg/L	0.00040	101	70	130	0.9	20	
Uranium		0.0525	mg/L	0.00030	102	70	130	1.1	20	
Zinc		0.0541	mg/L	0.010	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B149826	
Sample ID: QCS		Initial Calibration Verification Standard							06/28/10 11:23	
Mercury		0.0019	mg/L	0.0010	93	90	110			
Method: E245.1									Batch: B_47296	
Sample ID: MB-47296		Method Blank				Run: SUB-B149826			06/28/10 11:28	
Mercury		ND	mg/L	5E-05						
Sample ID: LCS-47296		Laboratory Control Sample				Run: SUB-B149826			06/28/10 11:29	
Mercury		0.0019	mg/L	0.0010	95	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100622A	
Sample ID: CCV062210-104	5	Continuing Calibration Verification Standard							06/24/10 11:03	
Chloride		70.9	mg/L	1.00	95	90	110			
Fluoride		7.19	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		6.98	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N		7.10	mg/L	0.10	95	90	110			
Sulfate		69.7	mg/L	1.0	93	90	110			
Method: E300.0									Batch: R46582	
Sample ID: LFB062210-10	5	Laboratory Fortified Blank				Run: DIONEX_100622A			06/22/10 20:31	
Chloride		37.5	mg/L	1.00	94	90	110			
Fluoride		3.91	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N		3.85	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N		3.85	mg/L	0.10	96	90	110			
Sulfate		37.0	mg/L	1.0	93	90	110			
Sample ID: R10060452-001BMS	5	Sample Matrix Spike				Run: DIONEX_100622A			06/24/10 12:14	
Chloride		98.5	mg/L	1.00	106	90	110			
Fluoride		5.51	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N		7.87	mg/L	0.10	191	90	110			S
Nitrogen, Nitrite as N		ND	mg/L	0.10		90	110			S
Sulfate		236	mg/L	1.0		90	110			A
Sample ID: R10060452-001BMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_100622A			06/24/10 12:32	
Chloride		98.1	mg/L	1.00	105	90	110	0.4	10	
Fluoride		5.51	mg/L	0.10	99	90	110	0	10	
Nitrogen, Nitrate as N		7.82	mg/L	0.10	190	90	110	0.6	10	S
Nitrogen, Nitrite as N		ND	mg/L	0.10		90	110		10	S
Sulfate		236	mg/L	1.0		90	110	0.3	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0931	
Sample ID: MB-GrAB-0931	6	Method Blank				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.9	pCi/L							
Gross Alpha MDC		1	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Sample ID: Th230-GrAB-0931		Laboratory Control Sample				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		120	pCi/L		116	70	130			
Sample ID: Cs137-GrAB-0931		Laboratory Control Sample				Run: SUB-C135115			07/19/10 22:35	
Gross Beta		83	pCi/L		94	70	130			
Sample ID: C10061049-001DDUP	6	Sample Duplicate				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		152	pCi/L					12	20.6	
Gross Alpha precision (±)		7.81	pCi/L							
Gross Alpha MDC		4.18	pCi/L							
Gross Beta		51.4	pCi/L					2.6	20.5	
Gross Beta precision (±)		2.67	pCi/L							
Gross Beta MDC		3.15	pCi/L							
Sample ID: C10070025-001EMS		Sample Matrix Spike				Run: SUB-C135115			07/21/10 04:16	
Gross Alpha		420	pCi/L		83	70	130			
Sample ID: C10070025-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-C135115			07/21/10 04:16	
Gross Alpha		460	pCi/L		119	70	130	8.5	15.3	
Sample ID: C10070025-001EMS		Sample Matrix Spike				Run: SUB-C135115			07/21/10 04:16	
Gross Beta		190	pCi/L		100	70	130			
Sample ID: C10070025-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-C135115			07/21/10 04:16	
Gross Beta		180	pCi/L		95	70	130	2.8	14	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R134585
Sample ID: LCS-R134585	4	Laboratory Control Sample				Run: SUB-C134585				06/28/10 10:55
Americium 241		640	pCi/L	20	73	70	130			
Barium 133		550	pCi/L	20	102	70	130			
Cesium 137		860	pCi/L	20	94	70	130			
Potassium 40		2800	pCi/L	20	82	70	130			
Sample ID: MB-R134585	5	Method Blank				Run: SUB-C134585				06/28/10 10:55
Bismuth 214		ND	pCi/L							U
Cesium 137		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: C10061076-001ADUP	3	Sample Duplicate				Run: SUB-C134585				06/28/10 10:55
Cesium 137		ND	pCi/L	20					30	U
Potassium 40		ND	pCi/L	20					30	U
Gross Gamma		ND	pCi/L	20					30	U

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4620
Sample ID: C10060993-002DMS		Sample Matrix Spike				Run: SUB-C134637				07/06/10 15:51
Radium 226		54	pCi/L		81	70	130			
Sample ID: C10060993-002DMSD		Sample Matrix Spike Duplicate				Run: SUB-C134637				07/06/10 15:51
Radium 226		57	pCi/L		99	70	130	5.2	17.6	
Sample ID: MB-RA226-4620	3	Method Blank				Run: SUB-C134637				07/06/10 17:27
Radium 226		-0.10	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4620		Laboratory Control Sample				Run: SUB-C134637				07/06/10 17:27
Radium 226		9.7	pCi/L		123	70	130			
Method: E903.0										Batch: C_R134801
Sample ID: C10060905-001FMS		Sample Matrix Spike				Run: SUB-C134801				07/12/10 15:23
Radium 226		19	pCi/L		100	70	130			
Sample ID: C10060905-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C134801				07/12/10 15:23
Radium 226		16	pCi/L		90	70	130	20	24	
Sample ID: LCS-26518		Laboratory Control Sample				Run: SUB-C134801				07/12/10 22:14
Radium 226		13	pCi/L		88	70	130			
Sample ID: MB-26518	3	Method Blank				Run: SUB-C134801				07/12/10 22:14
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-1197	
Sample ID: LCS-RA-TH-ISO-1197		Laboratory Control Sample				Run: SUB-C134520			07/01/10 08:45	
Thorium 230		4.7	pCi/L		88	70	130			
Sample ID: C10061072-002CMS		Sample Matrix Spike				Run: SUB-C134520			07/01/10 13:14	
Thorium 230		9.0	pCi/L		67	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MSD, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: C10061072-002CMSD		Sample Matrix Spike Duplicate				Run: SUB-C134520			07/01/10 13:14	
Thorium 230		13	pCi/L		101	70	130	38	41.1	
Sample ID: MB-RA-TH-ISO-1197	3	Method Blank				Run: SUB-C134520			07/02/10 08:32	
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.07	pCi/L							
Method: E907.0									Batch: C_26535	
Sample ID: R10060444-001I		Sample Matrix Spike				Run: SUB-C134650			07/07/10 11:11	
Thorium 230		9.1	pCi/L		79	70	130			
Sample ID: R10060444-001I		Sample Matrix Spike Duplicate				Run: SUB-C134650			07/07/10 11:12	
Thorium 230		11	pCi/L		94	70	130	17	54.2	
Sample ID: MB-26535	3	Method Blank				Run: SUB-C134650			07/07/10 11:12	
Thorium 230		-0.1	pCi/L							U
Thorium 230 MDC		0.4	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Sample ID: LCS1-26535		Laboratory Control Sample				Run: SUB-C134650			07/07/10 11:12	
Thorium 230		5.4	pCi/L		114	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: C_PB-210-0729
Sample ID: R10060444-002I		Sample Matrix Spike				Run: SUB-C134719				07/07/10 08:46
Lead 210		210	pCi/L		82	70	130			
Sample ID: R10060444-002I		Sample Matrix Spike Duplicate				Run: SUB-C134719				07/07/10 08:46
Lead 210		210	pCi/L		83	70	130	0.3	18.3	
Sample ID: MB-26518	3	Method Blank				Run: SUB-C134719				07/07/10 08:46
Lead 210		-1	pCi/L							U
Lead 210 precision (±)		10	pCi/L							
Lead 210 MDC		20	pCi/L							
Sample ID: LCS-26518		Laboratory Control Sample				Run: SUB-C134719				07/07/10 08:46
Lead 210		350	pCi/L		71	70	130			
Sample ID: LCS1-26535		Laboratory Control Sample				Run: SUB-C134719				07/07/10 08:46
Lead 210		410	pCi/L		76	70	130			
Method: E909.0M										Batch: C_PB-210-0728
Sample ID: C09120066-001AMS		Sample Matrix Spike				Run: SUB-C134817				07/12/10 10:22
Lead 210		210	pCi/L		92	70	130			
Sample ID: C09120066-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-C134817				07/12/10 12:24
Lead 210		190	pCi/L		81	70	130	13	17.3	
Sample ID: MB-PB-210-0728	3	Method Blank				Run: SUB-C134817				07/12/10 14:25
Lead 210		2	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-PB-210-0728		Laboratory Control Sample				Run: SUB-C134817				07/12/10 16:27
Lead 210		110	pCi/L		94	70	130			
Sample ID: LCS-PB-210-0728		Laboratory Control Sample				Run: SUB-C134817				07/12/10 18:28
Lead 210		98	pCi/L		87	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0306
Sample ID: R10060444-002K		Sample Matrix Spike				Run: SUB-C134590				07/06/10 09:18
Polonium 210		31	pCi/L		95	70	130			
Sample ID: R10060444-002K		Sample Matrix Spike Duplicate				Run: SUB-C134590				07/06/10 09:18
Polonium 210		31	pCi/L		96	70	130	0.5	57.1	
Sample ID: MB-PO210-0306	3	Method Blank				Run: SUB-C134590				07/06/10 09:18
Polonium 210		-0.01	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							
Sample ID: LCS-PO210-0306		Laboratory Control Sample				Run: SUB-C134590				07/06/10 09:18
Polonium 210		11	pCi/L		70	70	130			
Method: E912.0										Batch: C_PO210-0307
Sample ID: MB-26518	3	Method Blank				Run: SUB-C134649				07/08/10 09:12
Polonium 210		0.2	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: LCS-26518		Laboratory Control Sample				Run: SUB-C134649				07/08/10 09:12
Polonium 210		52	pCi/L		66	70	130			US
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, second LCS, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: C10060928-003GMS		Sample Matrix Spike				Run: SUB-C134649				07/08/10 09:12
Polonium 210		12	pCi/L		90	70	130			
Sample ID: C10060928-003GMSD		Sample Matrix Spike Duplicate				Run: SUB-C134649				07/08/10 09:12
Polonium 210		16	pCi/L		117	70	130	25	60.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env.	Project Name, PWS, Permit, Etc. Powertech, Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Powertech Inc, Scott Env.	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address: Powertech, Inc.	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT(Electronic Data) Format:_____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

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

ANALYSIS REQUESTED

Aqua Quake

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 4.4 °C

On Ice: (Yes) No

Custody Seal Y N

Bottles/ Coolers B C

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	DB-09-21-01	6-22-10		water
2	DB-09-21-02	6-22-10		water
3				
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY

R1006044-001
002

Custody Record MUST be Signed

Relinquished by (print): Allen Scott	Date/Time: 6-23-10 11:35	Signature:	Received by (print):	Date/Time: Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time: Signature:
			Received by Laboratory: Steve Troiland	Date/Time: 6-23-10 1135 Signature:

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, and links.

ANALYTICAL SUMMARY REPORT

October 19, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10070459

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 3 samples for Powertech USA Inc on 7/27/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10070459-001	DB-09-21-01	07/27/10 0:00	07/27/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10070459-002	DB-09-21-02	07/27/10 0:00	07/27/10	Aqueous	Same As Above
R10070459-003	DB-09-21-02-Dup	07/27/10 0:00	07/27/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by
Linda Larson
Date: 2010.10.19 14:44:53 -06:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10070459

Revised Date: 10/19/10
Report Date: 09/25/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Radon analysis was preformed by the SDSHL
Comments imported for SUBBED Workorder: C10071156
PB210 ANALYSIS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.
End of comments imported for SUBBED Workorder: C10071156

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Client: Powertech USA Inc
Report Date: 09/25/10
Project: Dewey Groundwater Sampling
Collection Date: 07/27/10
Lab ID: R10070459-001
Date Received: 07/27/10
Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	08/05/10 11:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/05/10 11:59/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	08/05/10 11:59/mb
Calcium	94	mg/L	D	1		5	E200.7	08/02/10 16:26/eli-c
Chloride	7	mg/L		1		1	E300.0	07/28/10 23:00/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/28/10 23:00/jmh
Magnesium	34.9	mg/L		0.5		5	E200.7	08/02/10 16:26/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	08/04/10 13:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/28/10 23:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/28/10 23:00/jmh
Potassium	11.3	mg/L		0.5		5	E200.7	08/02/10 16:26/eli-c
Sodium	169	mg/L	D	1		5	E200.7	08/02/10 16:26/eli-c
Sulfate	534	mg/L	D	20		20	E300.0	07/28/10 22:07/jmh
Silica	9.3	mg/L		0.2		5	E200.7	08/02/10 16:26/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	07/28/10 15:28/jmh
Oxidation-Reduction Potential	180	mV				1	A2580 B	08/03/10 16:00/jmh
pH	7.84	s.u.		0.01		1	A4500-H B	08/02/10 13:46/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L	D	10		1	A2540 C	07/29/10 14:10/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	08/02/10 16:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	08/04/10 03:37/eli-c
Barium	ND	mg/L		0.1		5	E200.7	08/02/10 16:26/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	08/02/10 16:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/04/10 03:37/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	08/02/10 16:26/eli-c
Copper	ND	mg/L		0.01		5	E200.7	08/02/10 16:26/eli-c
Iron	ND	mg/L		0.03		5	E200.7	08/02/10 16:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/04/10 03:37/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	08/04/10 03:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/04/10 03:37/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	08/02/10 16:26/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	08/02/10 16:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/04/10 16:35/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	08/04/10 03:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/06/10 09:19/eli-b

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

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-001
Client Sample ID: DB-09-21-01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	08/04/10 03:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/04/10 03:37/eli-c
Zinc	0.01	mg/L		0.01		5	E200.7	08/02/10 16:26/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	08/11/10 01:13/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/04/10 14:48/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.7	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	6.1	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta	17.1	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	4.0	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Lead 210	0.4	pCi/L	U			1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Polonium 210	0.076	pCi/L	U			1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.61	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.30	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.04	pCi/L	U			1	E907.0	08/12/10 08:54/eli-c
Thorium 230 MDC	0.09	pCi/L				1	E907.0	08/12/10 08:54/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	08/12/10 08:54/eli-c
Gross Gamma	500	pCi/L				1	E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Polonium 210	-0.10	pCi/L	U			1	E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	08/10/10 12:20/eli-ca

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

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-001
Client Sample ID: DB-09-21-01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.95	pCi/L				1	E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.1	pCi/L	U			1	E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Thorium 230	0.2	pCi/L	U			1	E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	247	pCi/L		100		1	D5072-92	07/29/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	08/06/10 20:39/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	08/06/10 20:39/eli-c
Barium	ND	mg/L		0.1		2	E200.7	08/05/10 11:18/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	08/06/10 20:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/05/10 11:18/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/05/10 11:18/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/06/10 20:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/06/10 20:39/eli-c
Iron	0.25	mg/L		0.03		2	E200.7	08/05/10 11:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 20:39/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	08/05/10 11:18/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	07/30/10 15:42/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	08/05/10 11:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/06/10 20:39/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	08/06/10 20:39/eli-c
Silver	ND	mg/L		0.005		2	E200.7	08/05/10 11:18/eli-c
Strontium	2.8	mg/L		0.1		1	E200.8	08/06/10 20:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	08/06/10 20:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/06/10 20:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/06/10 20:39/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.76	%				1	A1030 E	08/30/10 00:00/lkl
Anions	14.7	meq/L				1	A1030 E	08/30/10 00:00/lkl
Cations	15.2	meq/L				1	A1030 E	08/30/10 00:00/lkl
Solids, Total Dissolved Calculated	977	mg/L				1	A1030 E	08/30/10 00:00/lkl
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	08/30/10 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

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Calcium	163	mg/L	D	1		5	E200.7	08/02/10 16:30/eli-c
Chloride	9	mg/L		1		1	E300.0	07/29/10 00:11/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	08/02/10 16:30/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/04/10 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Potassium	11.5	mg/L		0.5		5	E200.7	08/02/10 16:30/eli-c
Sodium	132	mg/L	D	1		5	E200.7	08/02/10 16:30/eli-c
Sulfate	658	mg/L	D	20		20	E300.0	07/28/10 23:18/jmh
Silica	8.5	mg/L		0.2		5	E200.7	08/02/10 16:30/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	07/28/10 15:29/jmh
Oxidation-Reduction Potential	220	mV				1	A2580 B	08/03/10 16:00/jmh
pH	7.51	s.u.		0.01		1	A4500-H B	08/02/10 13:52/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	07/29/10 14:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Barium	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Boron	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/06/10 13:12/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	08/02/10 16:30/eli-c
Copper	ND	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
Iron	ND	mg/L		0.03		5	E200.7	08/02/10 16:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Manganese	0.56	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	08/02/10 16:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/04/10 16:42/eli-ca
Silver	ND	mg/L		0.005		2	E200.7	08/06/10 13:12/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	08/06/10 09:24/eli-b

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

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0069	mg/L		0.0003		1	E200.8	08/06/10 09:24/eli-b
Vanadium	ND	mg/L		0.1		2	E200.7	08/06/10 13:12/eli-b
Zinc	0.02	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	08/11/10 01:17/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/04/10 14:55/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	31.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	6.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	7.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta	27.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	5.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Polonium 210	0.062	pCi/L	U			1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Radium 226	2.6	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.04	pCi/L	U			1	E907.0	08/12/10 13:14/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Gross Gamma	980	pCi/L				1	E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Polonium 210	0.0	pCi/L	U			1	E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	08/10/10 12:20/eli-ca

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

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.48	pCi/L				1	E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.1	pCi/L	U			1	E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Thorium 230	-0.2	pCi/L	U			1	E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	373	pCi/L		100		1	D5072-92	07/29/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	08/06/10 20:45/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	08/06/10 20:45/eli-c
Barium	ND	mg/L		0.1		2	E200.7	08/05/10 11:22/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	08/05/10 11:22/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/05/10 11:22/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/05/10 11:22/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	08/05/10 11:22/eli-c
Copper	ND	mg/L		0.01		2	E200.7	08/05/10 11:22/eli-c
Iron	ND	mg/L		0.03		2	E200.7	08/05/10 11:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 20:45/eli-c
Manganese	0.56	mg/L		0.01		2	E200.7	08/05/10 11:22/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	07/30/10 15:46/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	08/05/10 11:22/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	08/05/10 11:22/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	08/06/10 20:45/eli-c
Silver	ND	mg/L		0.005		2	E200.7	08/05/10 11:22/eli-c
Strontium	2.3	mg/L		0.1		2	E200.7	08/05/10 11:22/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	08/06/10 20:45/eli-c
Uranium	0.0080	mg/L		0.0003		1	E200.8	08/06/10 20:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/06/10 20:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.400	%				1	A1030 E	08/30/10 00:00/lkl
Anions	18.0	meq/L				1	A1030 E	08/30/10 00:00/lkl
Cations	18.1	meq/L				1	A1030 E	08/30/10 00:00/lkl
Solids, Total Dissolved Calculated	1160	mg/L				1	A1030 E	08/30/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	08/30/10 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

Revised Date: 10/19/10
Client: Powertech USA Inc — **Report Date:** 09/25/10
Project: Dewey Groundwater Sampling — **Collection Date:** 07/27/10
Lab ID: R10070459-003 — **Date Received:** 07/27/10
Client Sample ID: DB-09-21-02-Dup — **Matrix:** AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Bicarbonate as HCO3	241	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Calcium	167	mg/L	D	1		5	E200.7	08/02/10 16:34/eli-c
Chloride	9	mg/L		1		1	E300.0	07/29/10 00:46/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	08/02/10 16:34/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/04/10 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Potassium	11.6	mg/L		0.5		5	E200.7	08/02/10 16:34/eli-c
Sodium	135	mg/L	D	1		5	E200.7	08/02/10 16:34/eli-c
Sulfate	659	mg/L	D	20		20	E300.0	07/29/10 00:29/jmh
Silica	8.5	mg/L		0.2		5	E200.7	08/02/10 16:34/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1530	umhos/cm		5.0		1	A2510 B	07/28/10 15:30/jmh
Oxidation-Reduction Potential	230	mV				1	A2580 B	08/03/10 16:00/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	08/02/10 13:53/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	07/29/10 14:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Barium	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Boron	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/06/10 13:24/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	08/02/10 16:34/eli-c
Copper	ND	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
Iron	ND	mg/L		0.03		5	E200.7	08/02/10 16:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Manganese	0.56	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	08/02/10 16:34/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/04/10 16:44/eli-ca
Silver	ND	mg/L		0.005		2	E200.7	08/06/10 13:24/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	08/06/10 09:28/eli-b

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

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Client: Powertech USA Inc — **Report Date:** 09/25/10
Project: Dewey Groundwater Sampling — **Collection Date:** 07/27/10
Lab ID: R10070459-003 — **Date Received:** 07/27/10
Client Sample ID: DB-09-21-02-Dup — **Matrix:** AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0070	mg/L		0.0003		1	E200.8	08/06/10 09:28/eli-b
Vanadium	ND	mg/L		0.1		2	E200.7	08/06/10 13:24/eli-b
Zinc	0.01	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	08/11/10 01:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/04/10 15:00/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	33.5	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	7.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta	29.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	5.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Polonium 210	-0.040	pCi/L	U			1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.77	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.28	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Radium 226	2.6	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.02	pCi/L	U			1	E907.0	08/12/10 13:14/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Gross Gamma	940	pCi/L				1	E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Polonium 210	0.22	pCi/L	U			1	E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.42	pCi/L				1	E912.0	08/10/10 12:20/eli-ca

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration
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ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-003
Client Sample ID: DB-09-21-02-Dup

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.66	pCi/L				1	E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.09	pCi/L	U			1	E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	08/10/10 14:32/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.								
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	388	pCi/L		100		1	D5072-92	07/29/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	08/06/10 21:19/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	08/06/10 21:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7	08/05/10 11:26/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	08/05/10 11:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/05/10 11:26/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/05/10 11:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	08/05/10 11:26/eli-c
Copper	ND	mg/L		0.01		2	E200.7	08/05/10 11:26/eli-c
Iron	ND	mg/L		0.03		2	E200.7	08/05/10 11:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 21:19/eli-c
Manganese	0.56	mg/L		0.01		2	E200.7	08/05/10 11:26/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	07/30/10 15:48/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	08/05/10 11:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	08/05/10 11:26/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	08/06/10 21:19/eli-c
Silver	ND	mg/L		0.005		2	E200.7	08/05/10 11:26/eli-c
Strontium	2.3	mg/L		0.1		2	E200.7	08/05/10 11:26/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	08/06/10 21:19/eli-c
Uranium	0.0081	mg/L		0.0003		1	E200.8	08/06/10 21:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/06/10 21:19/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.38	%				1	A1030 E	08/30/10 00:00/lkl
Anions	17.9	meq/L				1	A1030 E	08/30/10 00:00/lkl
Cations	18.4	meq/L				1	A1030 E	08/30/10 00:00/lkl
Solids, Total Dissolved Calculated	1170	mg/L				1	A1030 E	08/30/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	08/30/10 00:00/lkl

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U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Revised Date: 10/19/10
Client: Powertech USA Inc
Report Date: 09/25/10
Project: Dewey Groundwater Sampling
Collection Date: 07/27/10
Lab ID: R10070459-003
Date Received: 07/27/10
Client Sample ID: DB-09-21-02-Dup
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								

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

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 100805A-ALK-SEL-W	
Sample ID: LCS1_100805A	Laboratory Control Sample					Run: PH_COND1-R_100805A			08/05/10 10:56	
Alkalinity, Total as CaCO3		948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_100805A	Method Blank					Run: PH_COND1-R_100805A			08/05/10 10:58	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10070420-003AMS	Sample Matrix Spike					Run: PH_COND1-R_100805A			08/05/10 11:46	
Alkalinity, Total as CaCO3		272	mg/L	5.0	89	80	120			
Sample ID: R10070420-003AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100805A			08/05/10 11:47	
Alkalinity, Total as CaCO3		286	mg/L	5.0	102	80	120	5	10	

Qualifiers:

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MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100728_1_COND-PROBE-W	
Sample ID: LCS1-1_100728	Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:20	
Conductivity @ 25 C		151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_100728	Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:21	
Conductivity @ 25 C		5020	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100728	Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:21	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100728	Method Blank					Run: PH_COND2-R_100728A			07/28/10 15:22	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10070321-001BDUP	Sample Duplicate					Run: PH_COND2-R_100728A			07/28/10 15:24	
Conductivity @ 25 C		501	umhos/cm	5.0				0.8	10	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100729A-SLDS-TDS-W	
Sample ID: LCS1_100729A		Laboratory Control Sample				Run: BAL-4-R_100729A			07/29/10 14:01	
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	103	90	110			
Sample ID: MBLK1_100729A		Method Blank				Run: BAL-4-R_100729A			07/29/10 14:02	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10070494-002AMS		Sample Matrix Spike				Run: BAL-4-R_100729A			07/29/10 14:15	
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10	103	90	110			

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 100803-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_100803A			08/03/10 16:00	
Oxidation-Reduction Potential		490	mV		102	95	105			
Sample ID: R10070459-001F	Sample Duplicate					Run: PH_COND1-R_100803A			08/03/10 16:00	
Oxidation-Reduction Potential		180	mV					0.5	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100802_1_PH-W	
Sample ID: LCS_pH-1_100802	Laboratory Control Sample					Run: PH_COND2-R_100802A			08/02/10 13:42	
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10070459-001ADUP	Sample Duplicate					Run: PH_COND2-R_100802A			08/02/10 13:50	
pH		7.88	s.u.	0.010				0.5	1.25	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-08-04_2_NH3_01	
Sample ID: MBLK-2		Method Blank				Run: TECHAA2-R_100804A			08/04/10 10:46	
Nitrogen, Ammonia as N		ND	mg/L	0.01						
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHAA2-R_100804A			08/04/10 11:14	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	102	90	110			
Sample ID: R10070459-001BMS		Sample Matrix Spike				Run: TECHAA2-R_100804A			08/04/10 13:52	
Nitrogen, Ammonia as N		0.34	mg/L	0.10	94	80	120			
Sample ID: R10070459-001BMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_100804A			08/04/10 13:53	
Nitrogen, Ammonia as N		0.37	mg/L	0.10	103	80	120	6.5	10	
Sample ID: R10070462-005CMS		Sample Matrix Spike				Run: TECHAA2-R_100804A			08/04/10 14:07	
Nitrogen, Ammonia as N		0.22	mg/L	0.10	89	80	120			
Sample ID: R10070462-005CMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_100804A			08/04/10 14:08	
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	80	120	2.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R135591
Sample ID: MB-100802A	15	Method Blank				Run: SUB-C135591				08/02/10 12:52
Silicon		ND	mg/L	0.007						
Aluminum		ND	mg/L	0.01						
Barium		ND	mg/L	0.0005						
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Zinc		ND	mg/L	0.001						
Sample ID: LFB-100802A	15	Laboratory Fortified Blank				Run: SUB-C135591				08/02/10 12:56
Silicon		0.45	mg/L	0.10	96	85	115			
Aluminum		0.98	mg/L	0.10	98	85	115			
Barium		0.97	mg/L	0.10	97	85	115			
Boron		0.99	mg/L	0.10	99	85	115			
Calcium		48	mg/L	0.50	97	85	115			
Chromium		0.98	mg/L	0.050	98	85	115			
Copper		0.99	mg/L	0.010	99	85	115			
Iron		0.99	mg/L	0.030	99	85	115			
Magnesium		48	mg/L	0.50	96	85	115			
Manganese		0.98	mg/L	0.010	98	85	115			
Molybdenum		0.99	mg/L	0.10	99	85	115			
Nickel		0.99	mg/L	0.050	99	85	115			
Potassium		46	mg/L	0.50	93	85	115			
Sodium		49	mg/L	0.50	98	85	115			
Zinc		1.0	mg/L	0.010	101	85	115			
Sample ID: C10070457-001BMS2	15	Sample Matrix Spike				Run: SUB-C135591				08/02/10 13:57
Aluminum		2.04	mg/L	0.10	100	70	130			
Barium		2.00	mg/L	0.10	97	70	130			
Boron		2.12	mg/L	0.10	98	70	130			
Chromium		1.99	mg/L	0.050	98	70	130			
Copper		2.01	mg/L	0.010	98	70	130			
Iron		2.01	mg/L	0.030	98	70	130			
Manganese		1.96	mg/L	0.010	96	70	130			
Molybdenum		1.99	mg/L	0.10	98	70	130			
Nickel		2.00	mg/L	0.050	98	70	130			
Silicon		5.53	mg/L	0.10		70	130			A
Zinc		2.06	mg/L	0.010	100	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R135591	
Sample ID: C10070457-001BMS2	15	Sample Matrix Spike				Run: SUB-C135591			08/02/10 13:57	
Calcium		109	mg/L	1.0	98	70	130			
Magnesium		99.8	mg/L	1.0	97	70	130			
Potassium		100	mg/L	1.0	95	70	130			
Sodium		224	mg/L	1.0	101	70	130			
Sample ID: C10070457-001BMSD2	15	Sample Matrix Spike Duplicate				Run: SUB-C135591			08/02/10 14:01	
Aluminum		2.04	mg/L	0.10	100	70	130	0	20	
Barium		2.02	mg/L	0.10	98	70	130	1	20	
Boron		2.13	mg/L	0.10	99	70	130	0.6	20	
Chromium		2.00	mg/L	0.050	98	70	130	0.4	20	
Copper		2.01	mg/L	0.010	98	70	130	0.1	20	
Iron		2.02	mg/L	0.030	99	70	130	0.6	20	
Manganese		1.99	mg/L	0.010	97	70	130	1.4	20	
Molybdenum		1.99	mg/L	0.10	98	70	130	0	20	
Nickel		1.97	mg/L	0.050	97	70	130	1.1	20	
Silicon		5.54	mg/L	0.10		70	130	0.3	20	A
Zinc		2.07	mg/L	0.010	100	70	130	0.4	20	
Calcium		110	mg/L	1.0	99	70	130	0.6	20	
Magnesium		103	mg/L	1.0	100	70	130	2.8	20	
Potassium		99.6	mg/L	1.0	94	70	130	0.9	20	
Sodium		226	mg/L	1.0	103	70	130	0.7	20	

Qualifiers:

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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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R135754	
Sample ID: MB-100804A	12 Method Blank					Run: SUB-C135754			08/04/10 12:48	
Barium		ND	mg/L	0.0005						
Beryllium		ND	mg/L	0.0002						
Boron		ND	mg/L	0.009						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		0.002	mg/L	0.002						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Sample ID: LFB-100804A	12 Laboratory Fortified Blank					Run: SUB-C135754			08/04/10 12:52	
Barium		0.97	mg/L	0.10	97	85	115			
Beryllium		1.00	mg/L	0.010	100	85	115			
Boron		0.99	mg/L	0.10	99	85	115			
Cadmium		1.0	mg/L	0.010	101	85	115			
Chromium		0.97	mg/L	0.050	97	85	115			
Copper		0.98	mg/L	0.010	98	85	115			
Iron		1.00	mg/L	0.030	99	85	115			
Manganese		0.96	mg/L	0.010	96	85	115			
Molybdenum		0.99	mg/L	0.10	99	85	115			
Nickel		0.96	mg/L	0.050	96	85	115			
Silver		0.97	mg/L	0.010	97	85	115			
Strontium		0.98	mg/L	0.10	98	85	115			
Sample ID: C10070817-001BMS2	12 Sample Matrix Spike					Run: SUB-C135754			08/04/10 13:44	
Barium		2.07	mg/L	0.10	97	70	130			
Beryllium		1.99	mg/L	0.010	98	70	130			
Boron		2.05	mg/L	0.10	99	70	130			
Cadmium		2.06	mg/L	0.010	101	70	130			
Chromium		1.96	mg/L	0.050	96	70	130			
Copper		2.00	mg/L	0.010	98	70	130			
Iron		2.04	mg/L	0.030	97	70	130			
Manganese		2.01	mg/L	0.010	94	70	130			
Molybdenum		1.98	mg/L	0.10	97	70	130			
Nickel		1.92	mg/L	0.050	94	70	130			
Silver		1.95	mg/L	0.010	96	70	130			
Strontium		2.20	mg/L	0.10	98	70	130			
Sample ID: C10070817-001BMSD2	12 Sample Matrix Spike Duplicate					Run: SUB-C135754			08/04/10 13:49	
Barium		2.06	mg/L	0.10	97	70	130	0.5	20	
Beryllium		2.00	mg/L	0.010	98	70	130	0.4	20	
Boron		2.05	mg/L	0.10	99	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R135754	
Sample ID: C10070817-001BMSD2	12	Sample Matrix Spike Duplicate				Run: SUB-C135754			08/04/10 13:49	
Cadmium		2.02	mg/L	0.010	99	70	130	1.7	20	
Chromium		1.97	mg/L	0.050	97	70	130	0.3	20	
Copper		1.98	mg/L	0.010	97	70	130	0.6	20	
Iron		2.05	mg/L	0.030	98	70	130	0.4	20	
Manganese		2.03	mg/L	0.010	95	70	130	0.7	20	
Molybdenum		1.99	mg/L	0.10	98	70	130	0.7	20	
Nickel		1.96	mg/L	0.050	96	70	130	2.5	20	
Silver		1.94	mg/L	0.010	95	70	130	0.3	20	
Strontium		2.20	mg/L	0.10	98	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R135663
Sample ID: LRB	15	Method Blank				Run: SUB-C135663				08/03/10 12:33
Arsenic		9E-05	mg/L	6E-05						
Beryllium		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						
Nickel		ND	mg/L	0.0007						
Selenium		0.0007	mg/L	0.0002						
Silver		5E-05	mg/L	3E-05						
Strontium		ND	mg/L	3E-05						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		0.0003	mg/L	0.0003						
Sample ID: LFB	15	Laboratory Fortified Blank				Run: SUB-C135663				08/03/10 12:39
Arsenic		0.0512	mg/L	0.0010	102	85	115			
Beryllium		0.0526	mg/L	0.0010	105	85	115			
Cadmium		0.0521	mg/L	0.0010	104	85	115			
Chromium		0.0514	mg/L	0.0010	103	85	115			
Copper		0.0516	mg/L	0.0010	103	85	115			
Lead		0.0506	mg/L	0.0010	101	85	115			
Manganese		0.0516	mg/L	0.0010	103	85	115			
Mercury		0.00510	mg/L	0.0010	102	85	115			
Nickel		0.0518	mg/L	0.0010	104	85	115			
Selenium		0.0512	mg/L	0.0010	101	85	115			
Silver		0.0205	mg/L	0.0010	102	85	115			
Strontium		0.0504	mg/L	0.0010	101	85	115			
Uranium		0.0522	mg/L	0.00030	104	85	115			
Vanadium		0.0513	mg/L	0.0010	103	85	115			
Zinc		0.0542	mg/L	0.0010	108	85	115			
Sample ID: R10070459-001C	15	Post Digestion Spike				Run: SUB-C135663				08/04/10 04:11
Arsenic		0.0530	mg/L	0.0010	104	70	130			
Beryllium		0.0491	mg/L	0.010	98	70	130			
Cadmium		0.0494	mg/L	0.010	99	70	130			
Chromium		0.0491	mg/L	0.0010	98	70	130			
Copper		0.0477	mg/L	0.010	94	70	130			
Lead		0.0507	mg/L	0.050	101	70	130			
Manganese		0.101	mg/L	0.010	105	70	130			
Mercury		0.00511	mg/L	0.0010	102	70	130			
Nickel		0.0472	mg/L	0.0010	92	70	130			
Selenium		0.0507	mg/L	0.0010	101	70	130			
Silver		0.0157	mg/L	0.010	78	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R135663
Sample ID: R10070459-001C	15	Post Digestion Spike				Run: SUB-C135663				08/04/10 04:11
Strontium		2.76	mg/L	0.10		70	130			A
Uranium		0.0547	mg/L	0.00030	108	70	130			
Vanadium		0.0510	mg/L	0.0010	102	70	130			
Zinc		0.0517	mg/L	0.010	97	70	130			
Sample ID: R10070459-001C	15	Post Digestion Spike Duplicate				Run: SUB-C135663				08/04/10 04:18
Arsenic		0.0525	mg/L	0.0010	103	70	130	0.9	20	
Beryllium		0.0495	mg/L	0.010	99	70	130	0.8	20	
Cadmium		0.0488	mg/L	0.010	98	70	130	1.1	20	
Chromium		0.0491	mg/L	0.0010	98	70	130	0.1	20	
Copper		0.0476	mg/L	0.010	94	70	130	0.2	20	
Lead		0.0507	mg/L	0.050	101	70	130	0	20	
Manganese		0.101	mg/L	0.010	105	70	130	0.3	20	
Mercury		0.00520	mg/L	0.0010	104	70	130	1.7	20	
Nickel		0.0471	mg/L	0.0010	92	70	130	0.1	20	
Selenium		0.0506	mg/L	0.0010	101	70	130	0.2	20	
Silver		0.0172	mg/L	0.010	86	70	130	9.4	20	
Strontium		2.74	mg/L	0.10		70	130	0.5	20	A
Uranium		0.0548	mg/L	0.00030	108	70	130	0.1	20	
Vanadium		0.0512	mg/L	0.0010	102	70	130	0.4	20	
Zinc		0.0518	mg/L	0.010	97	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R135811
Sample ID: LRB	7	Method Blank				Run: SUB-C135811				08/06/10 12:51
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Lead		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0002						
Thallium		ND	mg/L	1E-05						
Uranium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	7	Laboratory Fortified Blank				Run: SUB-C135811				08/06/10 12:58
Antimony		0.0505	mg/L	0.0010	101	85	115			
Arsenic		0.0521	mg/L	0.0010	104	85	115			
Lead		0.0515	mg/L	0.0010	103	85	115			
Selenium		0.0516	mg/L	0.0010	103	85	115			
Thallium		0.0516	mg/L	0.0010	103	85	115			
Uranium		0.0500	mg/L	0.00030	100	85	115			
Zinc		0.0545	mg/L	0.0010	109	85	115			
Sample ID: C10071092-012AMS4	7	Post Digestion Spike				Run: SUB-C135811				08/06/10 15:01
Antimony		0.0558	mg/L	0.050	112	70	130			
Arsenic		0.0638	mg/L	0.0010	106	70	130			
Lead		0.0514	mg/L	0.050	103	70	130			
Selenium		0.0560	mg/L	0.0010	106	70	130			
Thallium		0.0516	mg/L	0.10	103	70	130			
Uranium		0.0661	mg/L	0.00030	103	70	130			
Zinc		0.0538	mg/L	0.010	102	70	130			
Sample ID: C10071092-012AMS4	7	Post Digestion Spike				Run: SUB-C135811				08/06/10 19:17
Antimony		0.0554	mg/L	0.050	111	70	130			
Arsenic		0.0616	mg/L	0.0010	103	70	130			
Lead		0.0503	mg/L	0.050	101	70	130			
Selenium		0.0527	mg/L	0.0010	100	70	130			
Thallium		0.0503	mg/L	0.0010	101	70	130			
Uranium		0.0646	mg/L	0.00030	100	70	130			
Zinc		0.0523	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_B_R151901
Sample ID: LRB		Method Blank				Run: SUB-C135846				08/05/10 11:30
Thorium		0.001	mg/L	1E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-C135846				08/05/10 11:35
Thorium		0.0470	mg/L	0.0010	92	85	115			
Sample ID: B10062814-002CMS		Sample Matrix Spike				Run: SUB-C135846				08/06/10 08:46
Thorium		0.0482	mg/L	0.0050	95	70	130			
Sample ID: B10062814-002CMSD		Sample Matrix Spike Duplicate				Run: SUB-C135846				08/06/10 08:51
Thorium		0.0502	mg/L	0.0050	98	70	130	4	20	
Method: E200.8										Batch: C_26896
Sample ID: MB-26896		Method Blank				Run: SUB-C135977				08/11/10 01:00
Uranium		0.0003	mg/L	6E-05						
Sample ID: LCS2-26896		Laboratory Control Sample				Run: SUB-C135977				08/11/10 01:05
Uranium		0.0647	mg/L	0.00030	129	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10070459-003I		Sample Matrix Spike				Run: SUB-C135977				08/11/10 01:25
Uranium		0.0549	mg/L	0.00030	110	70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate				Run: SUB-C135977				08/11/10 01:29
Uranium		0.0552	mg/L	0.00030	110	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B151585	
Sample ID: QCS		Initial Calibration Verification Standard							07/30/10 11:33	
Mercury		0.0020	mg/L	0.0010	100	90	110			
Method: E245.1									Batch: B_48008	
Sample ID: MB-48008		Method Blank				Run: SUB-B151585			07/30/10 15:38	
Mercury		ND	mg/L	1E-05						
Sample ID: LCS-48008		Laboratory Control Sample				Run: SUB-B151585			07/30/10 15:40	
Mercury		0.0022	mg/L	0.0010	108	85	115			
Sample ID: B10072906-001JMS		Sample Matrix Spike				Run: SUB-B151585			07/30/10 15:43	
Mercury		0.0020	mg/L	0.0010	102	70	130			
Sample ID: B10072906-001JMSD		Sample Matrix Spike Duplicate				Run: SUB-B151585			07/30/10 15:45	
Mercury		0.0021	mg/L	0.0010	105	70	130	2.9	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100728A	
Sample ID: CCV072810-22	5	Continuing Calibration Verification Standard							07/28/10 18:18	
Chloride		73.6	mg/L	1.00	98	90	110			
Fluoride		7.15	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N		7.00	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N		7.17	mg/L	0.10	95	90	110			
Sulfate		70.8	mg/L	1.0	94	90	110			
Sample ID: CCV072810-34	5	Continuing Calibration Verification Standard							07/28/10 22:25	
Chloride		74.5	mg/L	1.00	99	90	110			
Fluoride		7.22	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		7.14	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N		7.27	mg/L	0.10	97	90	110			
Sulfate		71.4	mg/L	1.0	95	90	110			
Method: E300.0									Batch: R47210	
Sample ID: LFB072810-10	5	Laboratory Fortified Blank				Run: DIONEX_100728A			07/28/10 14:10	
Chloride		37.0	mg/L	1.00	92	90	110			
Fluoride		3.82	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N		3.74	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N		3.76	mg/L	0.10	94	90	110			
Sulfate		36.6	mg/L	1.0	91	90	110			
Sample ID: R10070459-002AMS	5	Sample Matrix Spike				Run: DIONEX_100728A			07/28/10 23:36	
Chloride		803	mg/L	20	96	90	110			
Fluoride		81.0	mg/L	2.0	97	90	110			
Nitrogen, Nitrate as N		78.9	mg/L	2.0	99	90	110			
Nitrogen, Nitrite as N		80.5	mg/L	2.0	101	90	110			
Sulfate		1420	mg/L	20	96	90	110			
Sample ID: R10070459-002AMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_100728A			07/28/10 23:53	
Chloride		806	mg/L	20	96	90	110	0.3	10	
Fluoride		81.4	mg/L	2.0	97	90	110	0.4	10	
Nitrogen, Nitrate as N		78.9	mg/L	2.0	99	90	110	0.1	10	
Nitrogen, Nitrite as N		79.2	mg/L	2.0	99	90	110	1.6	10	
Sulfate		1430	mg/L	20	97	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-0941
Sample ID: MB-GrAB-0941	6	Method Blank				Run: SUB-C135796				08/05/10 23:18
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0941		Laboratory Control Sample				Run: SUB-C135796				08/05/10 23:18
Gross Alpha		100	pCi/L		102	70	130			
Sample ID: Cs137-GrAB-0941		Laboratory Control Sample				Run: SUB-C135796				08/05/10 23:18
Gross Beta		78	pCi/L		89	70	130			
Sample ID: C10070657-001DMS		Sample Matrix Spike				Run: SUB-C135796				08/05/10 23:18
Gross Alpha		124	pCi/L		118	70	130			
Sample ID: C10070657-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C135796				08/05/10 23:18
Gross Alpha		115	pCi/L		108	70	130	7.8	18.8	
Sample ID: C10070657-001DMS		Sample Matrix Spike				Run: SUB-C135796				08/05/10 23:18
Gross Beta		80.3	pCi/L		87	70	130			
Sample ID: C10070657-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C135796				08/05/10 23:18
Gross Beta		86.4	pCi/L		94	70	130	7.3	16.3	
Sample ID: C10070781-002ADUP	6	Sample Duplicate				Run: SUB-C135796				08/06/10 11:25
Gross Alpha		0.688	pCi/L					3800	598.8	UR
Gross Alpha precision (±)		2.18	pCi/L							
Gross Alpha MDC		3.61	pCi/L							
Gross Beta		6.31	pCi/L					33	86.9	
Gross Beta precision (±)		2.12	pCi/L							
Gross Beta MDC		3.37	pCi/L							

- For Gross Alpha the Sample and the Duplicate are both below the MDC; the RPD is acceptable.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R135892
Sample ID: LCS-R135892	3	Laboratory Control Sample				Run: SUB-C135892				08/04/10 07:00
Americium 241		700	pCi/L	20	87	70	130			
Cesium 137		960	pCi/L	20	95	70	130			
Potassium 40		6300	pCi/L	20	94	70	130			
Sample ID: MB-R135892	4	Method Blank				Run: SUB-C135892				08/04/10 07:00
Bismuth 214		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10070459-001H	4	Sample Duplicate				Run: SUB-C135892				08/04/10 07:00
Thorium 234		550	pCi/L	20				10	30	
Thorium 234 precision (±)		140	pCi/L							
Gross Gamma		550	pCi/L					10	30	
Gross Gamma precision (±)		140	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4699
Sample ID: C10070928-001GMS		Sample Matrix Spike				Run: SUB-C135886				08/09/10 10:42
Radium 226		16.5	pCi/L		105	70	130			
Sample ID: C10070928-001GMSD		Sample Matrix Spike Duplicate				Run: SUB-C135886				08/09/10 10:42
Radium 226		14.5	pCi/L		93	70	130	12	24.1	
Sample ID: MB-RA226-4699	3	Method Blank				Run: SUB-C135886				08/09/10 13:47
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4699		Laboratory Control Sample				Run: SUB-C135886				08/09/10 13:47
Radium 226		8.3	pCi/L		107	70	130			
Method: E903.0										Batch: C_R135959
Sample ID: C10070368-004AMS		Sample Matrix Spike				Run: SUB-C135959				08/10/10 12:50
Radium 226		0.00023	uCi/kg		91	70	130			
Sample ID: C10070368-004AMSD		Sample Matrix Spike Duplicate				Run: SUB-C135959				08/10/10 12:50
Radium 226		0.00024	uCi/kg		95	70	130	3.2	23.6	
Sample ID: LCS-26896		Laboratory Control Sample				Run: SUB-C135959				08/10/10 14:32
Radium 226		14	pCi/L		97	70	130			
Sample ID: MB-26896	3	Method Blank				Run: SUB-C135959				08/10/10 14:32
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_26896
Sample ID: R10070459-003I		Sample Matrix Spike				Run: SUB-C135891				08/06/10 08:44
Thorium 230		10	pCi/L		97	70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate				Run: SUB-C135891				08/06/10 08:44
Thorium 230		14	pCi/L		120	70	130	32	53.8	
Sample ID: LCS-26896		Laboratory Control Sample				Run: SUB-C135891				08/06/10 08:45
Thorium 230		4.3	pCi/L		88	70	130			
Sample ID: MB-26896	3	Method Blank				Run: SUB-C135891				08/06/10 08:44
Thorium 230		-0.2	pCi/L							U
Thorium 230 MDC		0.3	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							
Method: E907.0										Batch: C_RA-TH-ISO-1222
Sample ID: LCS-RA-TH-ISO-1222		Laboratory Control Sample				Run: SUB-C136138				08/12/10 08:54
Thorium 230		5.2	pCi/L		93	70	130			
Sample ID: C10071017-011DMS		Sample Matrix Spike				Run: SUB-C136138				08/12/10 08:54
Thorium 230		16	pCi/L		97	70	130			
Sample ID: C10071017-011DMSD		Sample Matrix Spike Duplicate				Run: SUB-C136138				08/12/10 08:54
Thorium 230		18	pCi/L		110	70	130	13	40.5	
Sample ID: MB-RA-TH-ISO-1222	3	Method Blank				Run: SUB-C136138				08/12/10 13:14
Thorium 230		0.1	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: C_PB-210-0748
Sample ID: MB-26896	3	Method Blank				Run: SUB-C136055				08/11/10 15:18
Lead 210		-10	pCi/L							U
Lead 210 precision (±)		10	pCi/L							
Lead 210 MDC		20	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: SUB-C136055				08/11/10 15:18
Lead 210		590	pCi/L		109	70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: SUB-C136055				08/11/10 15:18
Lead 210		590	pCi/L		109	70	130	0.1	15.3	
Sample ID: LCS-26896		Laboratory Control Sample				Run: SUB-C136055				08/11/10 15:18
Lead 210		460	pCi/L		90	70	130			
Sample ID: LCS-PB-210-0748		Laboratory Control Sample				Run: SUB-C136055				08/11/10 15:18
Lead 210		100	pCi/L		102	70	130			
Method: E909.0M										Batch: C_PB-210-0749
Sample ID: MB-PB-210-0749	3	Method Blank				Run: SUB-C136095				08/13/10 09:09
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: C10071017-012DMS		Sample Matrix Spike				Run: SUB-C136095				08/13/10 09:09
Lead 210		120	pCi/L		111	70	130			
Sample ID: C10071017-012DMSD		Sample Matrix Spike Duplicate				Run: SUB-C136095				08/13/10 09:09
Lead 210		130	pCi/L		121	70	130	8.9	16.1	
Sample ID: LCS-PB-210-0749		Laboratory Control Sample				Run: SUB-C136095				08/13/10 09:09
Lead 210		56	pCi/L		101	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0308
Sample ID: R10070459-002K		Sample Matrix Spike				Run: SUB-C135910				08/10/10 09:40
Polonium 210		35	pCi/L		106	70	130			
Sample ID: R10070459-002K		Sample Matrix Spike Duplicate				Run: SUB-C135910				08/10/10 09:40
Polonium 210		32	pCi/L		99	70	130	7.3	58.7	
Sample ID: MB-PO210-0308	3	Method Blank				Run: SUB-C135910				08/10/10 09:40
Polonium 210		0.7	pCi/L							
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.6	pCi/L							
Sample ID: LCS-PO210-0308		Laboratory Control Sample				Run: SUB-C135910				08/10/10 09:40
Polonium 210		18	pCi/L		109	70	130			
Method: E912.0										Batch: C_R135911
Sample ID: R10070459-003I		Sample Matrix Spike				Run: SUB-C135911				08/10/10 12:20
Polonium 210		47	pCi/L		120	70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate				Run: SUB-C135911				08/10/10 12:20
Polonium 210		34	pCi/L		88	70	130	31	56.8	
Sample ID: LCS-26896		Laboratory Control Sample				Run: SUB-C135911				08/10/10 12:20
Polonium 210		74	pCi/L		96	70	130			
Sample ID: MB-26896	3	Method Blank				Run: SUB-C135911				08/10/10 12:20
Polonium 210		-0.05	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: Powertech - Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Powertech, Scott Env.	Contact Name: Allen Scott Phone/Fax: 673-4859	Email:	Sampler: (Please Print) Allen Scott
Invoice Address: Powertech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

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

ANALYSIS REQUESTED

Gross Alpha

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 7.2 °C

On Ice: (Y) N

Custody Seal
On Bottle Y N
On Cooler Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	DB-09-21-01	7-27-10		Water
2	DB-09-21-02	"		"
3	DB-09-21-02 Dup.	"		"
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY
L10070459-001
002
003

Custody Record MUST be Signed

Relinquished by (print): Allen Scott	Date/Time: 7-27-10 4:27pm	Signature:	Received by (print):
Relinquished by (print):	Date/Time:	Signature:	Received by (print):
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Hoiland 7-27-10 1621

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

October 15, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10080398

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 8/24/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10080398-001	DB-09-21-01	08/23/10 0:00	08/24/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10080398-002	DB-09-21-02	08/23/10 0:00	08/24/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by
Linda Larson
Date: 2010.10.15 11:29:29 -06:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10080398

Report Date: 10/15/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.
Comments imported for SUBBED Workorder: C10081031
RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all samples due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10081031

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Calcium	97	mg/L	D	1		5	E200.7	09/01/10 20:46/eli-c
Chloride	8	mg/L	B	1		1	E300.0	08/25/10 13:15/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Magnesium	35.4	mg/L		0.5		5	E200.7	09/01/10 20:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	08/31/10 16:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	09/01/10 20:46/eli-c
Sodium	169	mg/L	D	1		5	E200.7	09/01/10 20:46/eli-c
Sulfate	575	mg/L	D	20		20	E300.0	08/25/10 12:58/jmh
Silica	8.5	mg/L		0.2		1	E200.8	09/01/10 10:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1330	umhos/cm		5.0		1	A2510 B	09/02/10 09:26/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	08/30/10 16:30/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	08/30/10 09:05/tb
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation	10/04/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	08/30/10 14:08/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	09/01/10 20:46/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 10:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 10:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 10:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/31/10 12:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/01/10 10:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/10/10 03:00/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/10 10:56/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/31/10 15:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha MDC	4.7	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta	15.5	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Lead 210	0.01	pCi/L	U			1	E909.0M	09/19/10 10:49/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	09/19/10 10:49/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	09/19/10 10:49/eli-cs
Polonium 210	0.088	pCi/L	U			1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 MDC	0.56	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 MDC	0.09	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Thorium 230	0.09	pCi/L	U			1	E907.0	09/17/10 17:09/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Gross Gamma	710	pCi/L				1	E901.1	09/02/10 09:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	09/02/10 09:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.08	pCi/L	U			1	E909.0M	09/30/10 05:46/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	09/30/10 05:46/eli-cs
Lead 210 MDC	1.3	pCi/L				1	E909.0M	09/30/10 05:46/eli-cs
Polonium 210	0.069	pCi/L	U			1	E912.0	09/15/10 11:06/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	09/15/10 11:06/eli-ca

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.55	pCi/L				1	E912.0	09/15/10 11:06/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	09/15/10 17:33/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	09/13/10 13:26/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	238	pCi/L		100		1	D5072-92	08/25/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	08/31/10 23:52/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Boron	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/31/10 23:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/31/10 23:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
Iron	0.28	mg/L		0.03		1	E200.8	08/31/10 23:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/26/10 15:58/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/31/10 23:52/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/31/10 23:52/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/31/10 23:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.500	%				1	A1030 E	10/14/10 00:00/lkl
Anions	15.6	meq/L				1	A1030 E	10/14/10 00:00/lkl
Cations	15.4	meq/L				1	A1030 E	10/14/10 00:00/lkl
Solids, Total Dissolved Calculated	1020	mg/L				1	A1030 E	10/14/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	10/14/10 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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Calcium	170	mg/L	D	1		5	E200.7	09/01/10 20:42/eli-c
Chloride	10	mg/L	B	1		1	E300.0	08/25/10 13:51/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Magnesium	48.7	mg/L		0.5		5	E200.7	09/01/10 20:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/31/10 16:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Potassium	12.2	mg/L		0.5		5	E200.7	09/01/10 20:42/eli-c
Sodium	133	mg/L	D	1		5	E200.7	09/07/10 12:28/eli-c
Sulfate	708	mg/L	D	20		20	E300.0	08/25/10 13:33/jmh
Silica	7.9	mg/L		0.2		1	E200.8	09/01/10 10:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	09/02/10 09:29/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	08/30/10 16:30/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	08/30/10 09:19/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	10/04/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	D	10		1	A2540 C	08/30/10 14:09/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	09/01/10 20:42/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 10:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 10:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 10:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/31/10 12:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0087	mg/L		0.0003		1	E200.8	09/01/10 10:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/10/10 03:05/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/10 10:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/31/10 15:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha precision (±)	4.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha MDC	5.8	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta	25.2	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta precision (±)	4.3	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta MDC	6.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Lead 210	-0.7	pCi/L	U			1	E909.0M	09/20/10 01:01/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	09/20/10 01:01/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	09/20/10 01:01/eli-cs
Polonium 210	-0.040	pCi/L	U			1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 MDC	0.77	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 precision (±)	0.28	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Radium 226	2.7	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 MDC	0.09	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Thorium 230	-0.02	pCi/L	U			1	E907.0	09/17/10 17:09/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Gross Gamma	610	pCi/L				1	E901.1	09/02/10 09:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	09/02/10 09:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.02	pCi/L	U			1	E909.0M	09/30/10 12:21/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	09/30/10 12:21/eli-cs
Lead 210 MDC	1.3	pCi/L				1	E909.0M	09/30/10 12:21/eli-cs
Polonium 210	0.068	pCi/L	U			1	E912.0	09/15/10 11:06/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	09/15/10 11:06/eli-ca

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: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.54	pCi/L				1	E912.0	09/15/10 11:06/eli-ca
Radium 226	-0.1	pCi/L	U			1	E903.0	09/15/10 17:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	09/13/10 13:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/13/10 13:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	342	pCi/L		100		1	D5072-92	08/25/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/01/10 13:31/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 13:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 13:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 13:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/26/10 16:00/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 13:31/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 13:31/eli-c
Strontium	2.3	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Uranium	0.0083	mg/L		0.0003		1	E200.8	09/01/10 13:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.750	%				1	A1030 E	10/14/10 00:00/lkl
Anions	18.9	meq/L				1	A1030 E	10/14/10 00:00/lkl
Cations	18.6	meq/L				1	A1030 E	10/14/10 00:00/lkl
Solids, Total Dissolved Calculated	1220	mg/L				1	A1030 E	10/14/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	10/14/10 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: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 100825A-ALK-SEL-W	
Sample ID: LCS1_100825A	Laboratory Control Sample					Run: PH_COND1-R_100825A			08/25/10 08:24	
Alkalinity, Total as CaCO3		952	mg/L	5.0	95	90	110			
Sample ID: MBLK1_100825A	Method Blank					Run: PH_COND1-R_100825A			08/25/10 08:27	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10080344-001AMS	Sample Matrix Spike					Run: PH_COND1-R_100825A			08/25/10 08:48	
Alkalinity, Total as CaCO3		152	mg/L	5.0	85	80	120			
Sample ID: R10080344-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100825A			08/25/10 08:55	
Alkalinity, Total as CaCO3		150	mg/L	5.0	83	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100902_1_COND-PROBE-W	
Sample ID: LCS1-1_100902		Laboratory Control Sample				Run: PH_COND2-R_100902A			09/02/10 08:50	
Conductivity @ 25 C		150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100902		Laboratory Control Sample				Run: PH_COND2-R_100902A			09/02/10 08:52	
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100902		Laboratory Control Sample				Run: PH_COND2-R_100902A			09/02/10 08:54	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100902		Method Blank				Run: PH_COND2-R_100902A			09/02/10 08:55	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10080390-001BDUP		Sample Duplicate				Run: PH_COND2-R_100902A			09/02/10 09:23	
Conductivity @ 25 C		265	umhos/cm	5.0				0.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100830A-SLDS-TDS-W	
Sample ID: LCS1_100830A		Laboratory Control Sample				Run: BAL-4-R_100830C			08/30/10 14:07	
Solids, Total Dissolved TDS @ 180 C		240	mg/L	10	108	90	110			
Sample ID: MBLK1_100830A		Method Blank				Run: BAL-4-R_100830C			08/30/10 14:08	
Solids, Total Dissolved TDS @ 180 C		20	mg/L	5						
Sample ID: R10080398-001ADUP		Sample Duplicate				Run: BAL-4-R_100830C			08/30/10 14:08	
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10				0.9	5	
Sample ID: R10080480-003AMS		Sample Matrix Spike				Run: BAL-4-R_100830C			08/30/10 14:21	
Solids, Total Dissolved TDS @ 180 C		980	mg/L	10	110	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 100830-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_100830A			08/30/10 16:30	
Oxidation-Reduction Potential		490	mV		103	95	105			
Sample ID: R10080398-001F	Sample Duplicate					Run: PH_COND1-R_100830A			08/30/10 16:30	
Oxidation-Reduction Potential		280	mV					5.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_27278
Sample ID: LRB-27278		Method Blank				Run: SUB-C136665				08/31/10 10:51
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LFB-27278		Laboratory Fortified Blank				Run: SUB-C136665				08/31/10 10:54
Selenium-IV		0.054	mg/L	0.0010	108	90	110			
Sample ID: R10080398-002E		Sample Matrix Spike				Run: SUB-C136665				08/31/10 11:00
Selenium-IV		0.046	mg/L	0.0010	92	85	115			
Sample ID: R10080398-002E		Sample Matrix Spike Duplicate				Run: SUB-C136665				08/31/10 11:03
Selenium-IV		0.045	mg/L	0.0010	90	85	115	1.6	10	
Method: A3114 B										Batch: C_27278
Sample ID: LRB-27278		Method Blank				Run: SUB-C136682				08/31/10 12:06
Selenium		ND	mg/L	0.0003						
Sample ID: LFB-27278		Laboratory Fortified Blank				Run: SUB-C136682				08/31/10 12:09
Selenium		0.047	mg/L	0.0010	94	90	110			
Sample ID: R10080398-002E		Sample Matrix Spike				Run: SUB-C136682				08/31/10 12:26
Selenium		0.046	mg/L	0.0010	92	85	115			
Sample ID: R10080398-002E		Sample Matrix Spike Duplicate				Run: SUB-C136682				08/31/10 12:28
Selenium		0.047	mg/L	0.0010	94	85	115	2.4	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 100830_1_PH-W	
Sample ID: LCS_pH-1_100830		Laboratory Control Sample				Run: PH_COND2-R_100830A			08/30/10 08:51	
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10080398-001ADUP		Sample Duplicate				Run: PH_COND2-R_100830A			08/30/10 09:14	
pH		7.85	s.u.	0.010				0.4	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-08-31_2_NH3_01	
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_100831A			08/31/10 14:34	
Nitrogen, Ammonia as N		ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_100831A			08/31/10 15:04	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	104	90	110			
Sample ID: R10080344-003CMS	Sample Matrix Spike					Run: TECHAA2-R_100831A			08/31/10 16:13	
Nitrogen, Ammonia as N		0.24	mg/L	0.10	98	80	120			
Sample ID: R10080344-003CMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_100831A			08/31/10 16:14	
Nitrogen, Ammonia as N		0.25	mg/L	0.10	102	80	120	3.6	10	
Sample ID: R10080459-003BMS	Sample Matrix Spike					Run: TECHAA2-R_100831A			08/31/10 16:30	
Nitrogen, Ammonia as N		0.20	mg/L	0.10	78	80	120			S
Sample ID: R10080459-003BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_100831A			08/31/10 16:31	
Nitrogen, Ammonia as N		0.22	mg/L	0.10	88	80	120	11	10	R

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R136764
Sample ID: MB-100901A	5	Method Blank				Run: SUB-C136764				09/01/10 13:09
Aluminum		ND	mg/L	0.01						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100901A	5	Laboratory Fortified Blank				Run: SUB-C136764				09/01/10 13:13
Aluminum		1.0	mg/L	0.10	99	85	115			
Calcium		51	mg/L	0.50	99	85	115			
Magnesium		52	mg/L	0.50	101	85	115			
Potassium		46	mg/L	0.50	91	85	115			
Sodium		49	mg/L	0.50	95	85	115			
Sample ID: C10081054-001BMS2	5	Sample Matrix Spike				Run: SUB-C136764				09/01/10 19:21
Aluminum		1.99	mg/L	0.10	98	70	130			
Calcium		139	mg/L	1.0	96	70	130			
Magnesium		114	mg/L	1.0	97	70	130			
Potassium		99.4	mg/L	1.0	94	70	130			
Sodium		889	mg/L	1.0		70	130			A
Sample ID: C10081054-001BMSD2	5	Sample Matrix Spike Duplicate				Run: SUB-C136764				09/01/10 19:25
Aluminum		2.03	mg/L	0.10	100	70	130	2.1	20	
Calcium		141	mg/L	1.0	98	70	130	1.5	20	
Magnesium		116	mg/L	1.0	98	70	130	1.1	20	
Potassium		101	mg/L	1.0	95	70	130	1.9	20	
Sodium		885	mg/L	1.0		70	130	0.5	20	A
Method: E200.7										Batch: C_R136930
Sample ID: MB-100907A		Method Blank				Run: SUB-C136930				09/07/10 11:10
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100907A		Laboratory Fortified Blank				Run: SUB-C136930				09/07/10 11:14
Sodium		50	mg/L	0.50	100	85	115			
Sample ID: C10080752-007CMS2		Sample Matrix Spike				Run: SUB-C136930				09/07/10 12:14
Sodium		141	mg/L	1.0	101	70	130			
Sample ID: C10080752-007CMSD2		Sample Matrix Spike Duplicate				Run: SUB-C136930				09/07/10 12:19
Sodium		142	mg/L	1.0	101	70	130	0.6	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_27256
Sample ID: MB-27256	19	Method Blank				Run: SUB-C136716				08/31/10 22:43
Antimony		ND	mg/L	0.0003						
Arsenic		0.0009	mg/L	5E-05						
Barium		ND	mg/L	0.0002						
Beryllium		ND	mg/L	3E-05						
Boron		0.009	mg/L	0.003						
Cadmium		ND	mg/L	4E-05						
Chromium		0.0007	mg/L	3E-05						
Copper		0.0001	mg/L	5E-05						
Iron		0.005	mg/L	0.001						
Lead		9E-05	mg/L	5E-05						
Manganese		0.0003	mg/L	2E-05						
Molybdenum		ND	mg/L	0.00010						
Nickel		ND	mg/L	4E-05						
Selenium		ND	mg/L	3E-05						
Silver		ND	mg/L	4E-05						
Strontium		0.0002	mg/L	6E-05						
Thallium		ND	mg/L	0.0001						
Uranium		ND	mg/L	4E-05						
Zinc		0.01	mg/L	0.001						
Sample ID: LCS3-27256	19	Laboratory Control Sample				Run: SUB-C136716				08/31/10 22:50
Antimony		0.588	mg/L	0.050	118	85	115			S
Arsenic		0.512	mg/L	0.0010	102	85	115			
Barium		0.533	mg/L	0.10	107	85	115			
Beryllium		0.228	mg/L	0.010	91	85	115			
Boron		0.494	mg/L	0.10	97	85	115			
Cadmium		0.266	mg/L	0.010	106	85	115			
Chromium		0.526	mg/L	0.050	105	85	115			
Copper		0.529	mg/L	0.010	106	85	115			
Iron		2.47	mg/L	0.030	98	85	115			
Lead		0.526	mg/L	0.050	105	85	115			
Manganese		2.47	mg/L	0.010	99	85	115			
Molybdenum		0.552	mg/L	0.10	110	85	115			
Nickel		0.511	mg/L	0.050	102	85	115			
Selenium		0.533	mg/L	0.0010	107	85	115			
Silver		0.0513	mg/L	0.010	103	85	115			
Strontium		0.488	mg/L	0.10	98	85	115			
Thallium		0.515	mg/L	0.10	103	85	115			
Uranium		0.525	mg/L	0.00030	105	85	115			
Zinc		0.514	mg/L	0.010	100	85	115			
- Response for Antimony is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10080398-001D	19	Sample Matrix Spike				Run: SUB-C136716				08/31/10 23:59
Antimony		0.597	mg/L	0.050	119	70	130			
Arsenic		0.501	mg/L	0.0010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_27256
Sample ID: R10080398-001D	19 Sample Matrix Spike					Run: SUB-C136716				08/31/10 23:59
Barium		0.552	mg/L	0.10	108	70	130			
Beryllium		0.201	mg/L	0.010	80	70	130			
Boron		0.521	mg/L	0.10	91	70	130			
Cadmium		0.254	mg/L	0.010	102	70	130			
Chromium		0.517	mg/L	0.050	103	70	130			
Copper		0.503	mg/L	0.010	101	70	130			
Iron		2.76	mg/L	0.030	99	70	130			
Lead		0.536	mg/L	0.050	107	70	130			
Manganese		2.52	mg/L	0.010	99	70	130			
Molybdenum		0.582	mg/L	0.10	116	70	130			
Nickel		0.490	mg/L	0.050	98	70	130			
Selenium		0.497	mg/L	0.0010	99	70	130			
Silver		0.0496	mg/L	0.010	99	70	130			
Strontium		3.26	mg/L	0.10		70	130			A
Thallium		0.524	mg/L	0.10	105	70	130			
Uranium		0.551	mg/L	0.00030	110	70	130			
Zinc		0.460	mg/L	0.010	91	70	130			
Sample ID: R10080398-001D	19 Sample Matrix Spike Duplicate					Run: SUB-C136716				09/01/10 00:05
Antimony		0.590	mg/L	0.050	118	70	130	1.2	20	
Arsenic		0.506	mg/L	0.0010	101	70	130	1.1	20	
Barium		0.547	mg/L	0.10	107	70	130	0.8	20	
Beryllium		0.202	mg/L	0.010	81	70	130	0.9	20	
Boron		0.529	mg/L	0.10	93	70	130	1.6	20	
Cadmium		0.252	mg/L	0.010	101	70	130	0.7	20	
Chromium		0.537	mg/L	0.050	107	70	130	3.9	20	
Copper		0.512	mg/L	0.010	102	70	130	1.9	20	
Iron		2.77	mg/L	0.030	100	70	130	0.2	20	
Lead		0.541	mg/L	0.050	108	70	130	0.9	20	
Manganese		2.55	mg/L	0.010	100	70	130	1.2	20	
Molybdenum		0.580	mg/L	0.10	116	70	130	0.2	20	
Nickel		0.499	mg/L	0.050	100	70	130	1.7	20	
Selenium		0.500	mg/L	0.0010	100	70	130	0.5	20	
Silver		0.0486	mg/L	0.010	97	70	130	2.1	20	
Strontium		3.23	mg/L	0.10		70	130	1	20	A
Thallium		0.534	mg/L	0.10	107	70	130	2	20	
Uranium		0.573	mg/L	0.00030	115	70	130	3.9	20	
Zinc		0.467	mg/L	0.010	93	70	130	1.6	20	
Method: E200.8										Batch: C_R136716A
Sample ID: R10080398-002D	23 Post Digestion Spike					Run: SUB-C136716				09/01/10 13:38
Antimony		0.0562	mg/L	0.050	112	70	130			
Arsenic		0.0540	mg/L	0.0010	105	70	130			
Barium		0.0618	mg/L	0.0010	104	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R136716A	
Sample ID: R10080398-002D	23 Post Digestion Spike				Run: SUB-C136716				09/01/10 13:38	
Beryllium		0.0433	mg/L	0.010	87	70	130			
Boron		0.112	mg/L	0.10	94	70	130			
Cadmium		0.0500	mg/L	0.010	100	70	130			
Chromium		0.0522	mg/L	0.050	104	70	130			
Copper		0.0502	mg/L	0.010	100	70	130			
Iron		1.31	mg/L	0.030	103	70	130			
Lead		0.0523	mg/L	0.050	104	70	130			
Manganese		0.638	mg/L	0.010		70	130			A
Mercury		0.00519	mg/L	0.0010	102	70	130			
Molybdenum		0.0468	mg/L	0.0010	93	70	130			
Nickel		0.0497	mg/L	0.0010	99	70	130			
Selenium		0.0529	mg/L	0.0010	105	70	130			
Silicon		4.38	mg/L	0.10		70	130			A
Silver		0.0158	mg/L	0.010	79	70	130			
Strontium		2.35	mg/L	0.10		70	130			A
Thallium		0.0527	mg/L	0.0010	105	70	130			
Thorium 232		0.0535	mg/L	0.0010	107	70	130			
Uranium		0.0616	mg/L	0.00030	107	70	130			
Vanadium		0.0525	mg/L	0.0010	104	70	130			
Zinc		0.0493	mg/L	0.010	99	70	130			
Sample ID: R10080398-002D	23 Post Digestion Spike Duplicate				Run: SUB-C136716				09/01/10 13:45	
Antimony		0.0560	mg/L	0.050	112	70	130	0.4	20	
Arsenic		0.0544	mg/L	0.0010	106	70	130	0.7	20	
Barium		0.0618	mg/L	0.0010	104	70	130	0.1	20	
Beryllium		0.0434	mg/L	0.010	87	70	130	0.3	20	
Boron		0.115	mg/L	0.10	99	70	130	2.3	20	
Cadmium		0.0500	mg/L	0.010	100	70	130	0.1	20	
Chromium		0.0521	mg/L	0.050	104	70	130	0.1	20	
Copper		0.0505	mg/L	0.010	100	70	130	0.5	20	
Iron		1.34	mg/L	0.030	105	70	130	2.3	20	
Lead		0.0526	mg/L	0.050	105	70	130	0.5	20	
Manganese		0.650	mg/L	0.010		70	130	1.8	20	A
Mercury		0.00527	mg/L	0.0010	103	70	130	1.5	20	
Molybdenum		0.0497	mg/L	0.0010	99	70	130	6	20	
Nickel		0.0499	mg/L	0.0010	100	70	130	0.4	20	
Selenium		0.0535	mg/L	0.0010	106	70	130	1	20	
Silicon		4.44	mg/L	0.10		70	130	1.3	20	A
Silver		0.0183	mg/L	0.010	91	70	130	14	20	
Strontium		2.38	mg/L	0.10		70	130	1.3	20	A
Thallium		0.0529	mg/L	0.0010	106	70	130	0.3	20	
Thorium 232		0.0540	mg/L	0.0010	108	70	130	0.9	20	
Uranium		0.0622	mg/L	0.00030	108	70	130	1	20	
Vanadium		0.0531	mg/L	0.0010	105	70	130	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R136716A
Sample ID: R10080398-002D	23	Post Digestion Spike Duplicate				Run: SUB-C136716				09/01/10 13:45
Zinc		0.0498	mg/L	0.010	100	70	130	1	20	
Sample ID: LRB	23	Method Blank				Run: SUB-C136716				08/31/10 12:50
Silicon		ND	mg/L	0.0005						
Antimony		0.0007	mg/L	0.0002						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	3E-05						
Boron		0.0004	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		0.0002	mg/L	6E-05						
Iron		ND	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Mercury		6E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		0.0002	mg/L	5E-05						
Selenium		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Strontium		ND	mg/L	6E-05						
Thallium		ND	mg/L	2E-05						
Thorium 232		6E-05	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.003	mg/L	0.0001						
Sample ID: LFB	23	Laboratory Fortified Blank				Run: SUB-C136716				08/31/10 12:57
Silicon		0.595	mg/L	0.0050	114	85	115			
Antimony		0.0498	mg/L	0.0010	98	85	115			
Arsenic		0.0520	mg/L	0.0010	104	85	115			
Barium		0.0518	mg/L	0.0010	104	85	115			
Beryllium		0.0515	mg/L	0.0010	103	85	115			
Boron		0.0500	mg/L	0.0010	99	85	115			
Cadmium		0.0525	mg/L	0.0010	105	85	115			
Chromium		0.0518	mg/L	0.0010	104	85	115			
Copper		0.0527	mg/L	0.0010	105	85	115			
Iron		1.28	mg/L	0.012	102	85	115			
Lead		0.0520	mg/L	0.0010	104	85	115			
Manganese		0.0508	mg/L	0.0010	102	85	115			
Mercury		0.00522	mg/L	0.0010	103	85	115			
Molybdenum		0.0510	mg/L	0.0010	101	85	115			
Nickel		0.0521	mg/L	0.0010	104	85	115			
Selenium		0.0526	mg/L	0.0010	105	85	115			
Silver		0.0203	mg/L	0.0010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R136716A
Sample ID: LFB	23	Laboratory Fortified Blank				Run: SUB-C136716				08/31/10 12:57
Strontium		0.0513	mg/L	0.0010	103	85	115			
Thallium		0.0515	mg/L	0.0010	103	85	115			
Thorium 232		0.0519	mg/L	0.0010	104	85	115			
Uranium		0.0519	mg/L	0.00030	104	85	115			
Vanadium		0.0519	mg/L	0.0010	104	85	115			
Zinc		0.0549	mg/L	0.0010	103	85	115			
Method: E200.8										Batch: C_27340
Sample ID: MB-27340		Method Blank				Run: SUB-C137102				09/10/10 02:44
Uranium		0.0001	mg/L	6E-05						
Sample ID: LCS2-27340		Laboratory Control Sample				Run: SUB-C137102				09/10/10 02:49
Uranium		0.0994	mg/L	0.00030	99	85	115			
Sample ID: R10080398-002I		Post Digestion Spike				Run: SUB-C137102				09/10/10 03:10
Uranium		0.0520	mg/L	0.00030	104	70	130			
Sample ID: R10080398-002I		Post Digestion Spike Duplicate				Run: SUB-C137102				09/10/10 03:36
Uranium		0.0508	mg/L	0.00030	101	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100825A	
Sample ID: CCV082510-11	5	Continuing Calibration Verification Standard							08/25/10 11:47	
Chloride		77.3	mg/L	1.00	103	90	110			
Fluoride		7.70	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N		7.67	mg/L	0.10	102	90	110			
Nitrogen, Nitrite as N		7.70	mg/L	0.10	103	90	110			
Sulfate		75.9	mg/L	1.0	101	90	110			
Method: E300.0									Batch: R47669	
Sample ID: LFB082510-10	5	Laboratory Fortified Blank				Run: DIONEX_100825A			08/25/10 11:29	
Chloride		41.1	mg/L	1.00	96	90	110			
Fluoride		3.92	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N		4.22	mg/L	0.10	105	90	110			
Nitrogen, Nitrite as N		4.21	mg/L	0.10	98	90	110			
Sulfate		40.8	mg/L	1.0	102	90	110			
Sample ID: R10080390-001BMS	5	Sample Matrix Spike				Run: DIONEX_100825A			08/25/10 12:22	
Chloride		43.8	mg/L	1.00	98	90	110			
Fluoride		4.38	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		4.61	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		4.25	mg/L	0.10	106	90	110			
Sulfate		47.8	mg/L	1.0	97	90	110			
Sample ID: R10080390-001BMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_100825A			08/25/10 12:40	
Chloride		43.8	mg/L	1.00	98	90	110	0	10	
Fluoride		4.40	mg/L	0.10	97	90	110	0.4	10	
Nitrogen, Nitrate as N		4.61	mg/L	0.10	100	90	110	0.1	10	
Nitrogen, Nitrite as N		4.23	mg/L	0.10	106	90	110	0.4	10	
Sulfate		47.7	mg/L	1.0	96	90	110	0.2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-0957
Sample ID: MB-GrAB-0957	6	Method Blank				Run: SUB-C137155				09/09/10 03:26
Gross Alpha		-0.5	pCi/L							U
Gross Alpha precision (±)		0.6	pCi/L							
Gross Alpha MDC		0.7	pCi/L							
Gross Beta		-0.8	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0957		Laboratory Control Sample				Run: SUB-C137155				09/09/10 03:26
Gross Alpha		100	pCi/L		101	70	130			
Sample ID: Cs137-GrAB-0957		Laboratory Control Sample				Run: SUB-C137155				09/09/10 03:26
Gross Beta		89	pCi/L		101	70	130			
Sample ID: C10080978-001DMS		Sample Matrix Spike				Run: SUB-C137155				09/09/10 03:26
Gross Alpha		120	pCi/L		114	70	130			
Sample ID: C10080978-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C137155				09/09/10 03:26
Gross Alpha		120	pCi/L		115	70	130	1.2	18.7	
Sample ID: C10080978-001DMS		Sample Matrix Spike				Run: SUB-C137155				09/09/10 03:26
Gross Beta		96	pCi/L		94	70	130			
Sample ID: C10080978-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C137155				09/09/10 03:26
Gross Beta		100	pCi/L		100	70	130	6.3	15.7	
Sample ID: R10080398-001H	6	Sample Duplicate				Run: SUB-C137155				09/10/10 03:35
Gross Alpha		8.1	pCi/L					8.5	90.1	
Gross Alpha precision (±)		3.4	pCi/L							
Gross Alpha MDC		4.7	pCi/L							
Gross Beta		14	pCi/L					10	49.2	
Gross Beta precision (±)		2.9	pCi/L							
Gross Beta MDC		4.4	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R137019
Sample ID: LCS-R137019	3	Laboratory Control Sample				Run: SUB-C137019				09/02/10 09:00
Americium 241		1100	pCi/L	20	137	70	130			S
Cesium 137		930	pCi/L	20	92	70	130			
Potassium 40		5800	pCi/L	20	87	70	130			
Sample ID: MB-R137019	2	Method Blank				Run: SUB-C137019				09/02/10 09:00
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10080398-001H	4	Sample Duplicate				Run: SUB-C137019				09/02/10 09:00
Thorium 234		590	pCi/L	20				18	30	
Thorium 234 precision (±)		160	pCi/L							
Gross Gamma		590	pCi/L					18	30	
Gross Gamma precision (±)		160	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4759
Sample ID: C10080902-001CMS		Sample Matrix Spike				Run: SUB-C136932				09/07/10 21:44
Radium 226		15	pCi/L		96	70	130			
Sample ID: C10080902-001CMSD		Sample Matrix Spike Duplicate				Run: SUB-C136932				09/07/10 21:44
Radium 226		14	pCi/L		88	70	130	8.9	22.3	
Sample ID: MB-RA226-4759	3	Method Blank				Run: SUB-C136932				09/07/10 23:20
Radium 226		0.09	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4759		Laboratory Control Sample				Run: SUB-C136932				09/07/10 23:20
Radium 226		7.2	pCi/L		89	70	130			
Method: E903.0										Batch: C_27340
Sample ID: R10080398-001I		Sample Matrix Spike				Run: SUB-C137305				09/15/10 17:33
Radium 226		38	pCi/L		115	70	130			
Sample ID: R10080398-001I		Sample Matrix Spike Duplicate				Run: SUB-C137305				09/15/10 17:33
Radium 226		35	pCi/L		105	70	130	7.4	22.8	
Sample ID: LCS-27340		Laboratory Control Sample				Run: SUB-C137305				09/15/10 21:17
Radium 226		17	pCi/L		112	70	130			
Sample ID: MB-27340	3	Method Blank				Run: SUB-C137305				09/15/10 21:17
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_27340
Sample ID: R10080398-002I		Sample Matrix Spike				Run: SUB-C137369				09/13/10 13:26
Thorium 230		5.5	pCi/L		95	70	130			
Sample ID: R10080398-002I		Sample Matrix Spike Duplicate				Run: SUB-C137369				09/13/10 13:26
Thorium 230		6.7	pCi/L		115	70	130	19	56.5	
Sample ID: LCS-27340		Laboratory Control Sample				Run: SUB-C137369				09/13/10 13:26
Thorium 230		5.4	pCi/L		105	70	130			
Sample ID: MB-27340	3	Method Blank				Run: SUB-C137369				09/13/10 13:26
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Method: E907.0										Batch: C_RA-TH-ISO-1246
Sample ID: LCS-RA-TH-ISO-1246		Laboratory Control Sample				Run: SUB-C137446				09/17/10 17:09
Thorium 230		4.3	pCi/L		83	70	130			
Sample ID: R10080398-002H		Sample Matrix Spike				Run: SUB-C137446				09/17/10 17:09
Thorium 230		12	pCi/L		93	70	130			
Sample ID: R10080398-002H		Sample Matrix Spike Duplicate				Run: SUB-C137446				09/17/10 17:09
Thorium 230		10	pCi/L		80	70	130	15	40.5	
Sample ID: MB-RA-TH-ISO-1246	3	Method Blank				Run: SUB-C137446				09/20/10 09:06
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.07	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: T_PB-210-0009
Sample ID: LCS-PB-210-0009		Laboratory Control Sample				Run: SUB-T36920				09/19/10 14:02
Lead 210		59	pCi/L		90	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T36920				09/19/10 06:26
Lead 210		120	pCi/L		113	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T36920				09/19/10 08:38
Lead 210		130	pCi/L		118	70	130	0	15.8	
Method: E909.0M										Batch: T_PB-210-0015
Sample ID: MB-12297	3	Method Blank				Run: SUB-T37064				09/29/10 23:12
Lead 210			pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: R10080398-001I		Sample Matrix Spike				Run: SUB-T37064				09/30/10 07:58
Lead 210		440	pCi/L		81	70	130			
Sample ID: R10080398-001I		Sample Matrix Spike Duplicate				Run: SUB-T37064				09/30/10 10:09
Lead 210		490	pCi/L		89	70	130	9.1	15.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0312
Sample ID: C10080917-004EMS		Sample Matrix Spike				Run: SUB-C137063				09/07/10 09:24
Polonium 210		34	pCi/L		106	70	130			
Sample ID: C10080917-004EMSD		Sample Matrix Spike Duplicate				Run: SUB-C137063				09/07/10 09:24
Polonium 210		34	pCi/L		103	70	130	2	58.8	
Sample ID: LCS-PO210-0312		Laboratory Control Sample				Run: SUB-C137063				09/07/10 09:24
Polonium 210		16	pCi/L		99	70	130			
Sample ID: MB-PO210-0312	3	Method Blank				Run: SUB-C137063				09/07/10 09:24
Polonium 210		0.08	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Method: E912.0										Batch: C_27340
Sample ID: C10080917-001FMS		Sample Matrix Spike				Run: SUB-C137367				09/15/10 11:06
Polonium 210		25	pCi/L		125	70	130			
Sample ID: C10080917-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C137367				09/15/10 11:06
Polonium 210		25	pCi/L		121	70	130	3.3	53.6	
Sample ID: LCS-27340		Laboratory Control Sample				Run: SUB-C137367				09/15/10 11:06
Polonium 210		100	pCi/L		131	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-27340	3	Method Blank				Run: SUB-C137367				09/15/10 11:06
Polonium 210		-0.2	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: Dewey Burdock PowerTech	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: PowerTech / Scott Env.	Contact Name: Allen Scott Phone/Fax: 673-4859	Email:	Sampler: (Please Print) Allen Scott
Invoice Address: PowerTech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

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

ANALYSIS REQUESTED

As per Quote

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	PB-09-21-01	8-23-10		Water
2	PB-09-21-02	8-23-10		"
3				
4				
5				
6				
7				
8				
9				
10				

Shipped by:
Cooler ID(s):
Receipt Temp 1.4 °C
On Ice: (Y) N
Custody Seal On Bottle Y N / On Cooler Y N
Intact Y N
Signature Match Y N

LABORATORY USE ONLY

B1008039B-001
002

Custody Record MUST be Signed

Relinquished by (print): Allen Scott	Date/Time: 7:12 Am 8-24-10	Signature:	Received by (print):	Date/Time:	Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Froland	Date/Time: 8-24-10 8:00	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.

ANALYTICAL SUMMARY REPORT

December 20, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10090519

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 9/29/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10090519-001	DB-09-21-01	09/28/10 0:00	09/29/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10090519-002	DB-09-21-02	09/28/10 0:00	09/29/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson
Digitally signed by Linda Larson
Date: 2010.12.20 14:31:17 -07:00
Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10090519

Report Date: 12/20/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.
Comments imported for SUBBED Workorder: C10100037
GROSS GAMMA ANALYSIS
The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.
End of comments imported for SUBBED Workorder: C10100037

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	10/08/10 10:07/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/08/10 10:07/hv
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	10/08/10 10:07/hv
Calcium	95.3	mg/L		0.5		2	E200.7	10/15/10 11:41/eli-c
Chloride	8	mg/L	B	1		1	E300.0	10/01/10 04:55/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/01/10 04:55/jmh
Magnesium	34.8	mg/L		0.5		2	E200.7	10/15/10 11:41/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/30/10 15:20/jmh
Nitrogen, Nitrate as N	ND	mg/L	D	2		20	E300.0	09/29/10 21:49/jmh
Nitrogen, Nitrite as N	ND	mg/L	D	2		20	E300.0	09/29/10 21:49/jmh
Potassium	11.6	mg/L		0.5		2	E200.7	10/15/10 11:41/eli-c
Sodium	169	mg/L	D	0.6		2	E200.7	10/15/10 11:41/eli-c
Sulfate	545	mg/L	D	20		20	E300.0	09/29/10 21:49/jmh
Silica	9.3	mg/L		0.2		2	E200.7	10/15/10 11:41/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	10/05/10 15:49/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	10/05/10 16:45/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	10/05/10 08:54/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	11/09/10 16:57/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D	10		1	A2540 C	09/29/10 16:55/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/12/10 14:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Boron	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/12/10 14:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/12/10 14:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/12/10 14:57/eli-c
Iron	ND	mg/L		0.03		1	E200.8	10/12/10 14:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/12/10 14:57/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	10/12/10 14:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/12/10 14:57/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/12/10 14:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/09/10 15:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/12/10 14:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/12/10 14:57/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/12/10 14:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/12/10 14:57/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/14/10 00:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/09/10 12:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/09/10 16:30/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-3	pCi/L	U			1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha MDC	5.6	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta	8.6	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Lead 210	1.8	pCi/L	U			1	E909.0M	10/30/10 21:10/eli-cs
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	10/30/10 21:10/eli-cs
Lead 210 MDC	2.0	pCi/L				1	E909.0M	10/30/10 21:10/eli-cs
Polonium 210	-0.024	pCi/L	U			1	E912.0	10/18/10 08:37/eli-ca
Polonium 210 MDC	0.53	pCi/L				1	E912.0	10/18/10 08:37/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	10/18/10 08:37/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Thorium 230	0.04	pCi/L	U			1	E907.0	10/19/10 13:09/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Gross Gamma	390	pCi/L				1	E901.1	10/04/10 09:40/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	10/04/10 09:40/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.07	pCi/L	U			1	E909.0M	11/14/10 11:18/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/14/10 11:18/eli-cs
Lead 210 MDC	1.5	pCi/L				1	E909.0M	11/14/10 11:18/eli-cs
Polonium 210	-0.0041	pCi/L	U			1	E912.0	10/20/10 08:49/eli-ca
Polonium 210 precision (±)	0.075	pCi/L				1	E912.0	10/20/10 08:49/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.19	pCi/L				1	E912.0	10/20/10 08:49/eli-ca
Radium 226	-0.06	pCi/L	U			1	E903.0	10/25/10 13:50/eli-c
Radium 226 precision (±)	0.03	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Radium 226 MDC	0.07	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	10/20/10 15:27/eli-c
Thorium 230 MDC	0.09	pCi/L				1	E907.0	10/20/10 15:27/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	10/20/10 15:27/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	232	pCi/L		100		1	D5072-92	10/01/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/19/10 02:15/eli-c
Arsenic	0.002	mg/L	B	0.001		1	E200.8	10/19/10 02:15/eli-c
Barium	ND	mg/L		0.1		1	E200.7	10/13/10 22:41/eli-c
Beryllium	ND	mg/L		0.001		1	E200.7	10/13/10 22:41/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/13/10 22:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.7	10/13/10 22:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	10/13/10 22:41/eli-c
Copper	ND	mg/L		0.01		1	E200.7	10/13/10 22:41/eli-c
Iron	0.23	mg/L		0.03		1	E200.7	10/13/10 22:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/19/10 02:15/eli-c
Manganese	0.05	mg/L		0.01		1	E200.7	10/13/10 22:41/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/01/10 15:52/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.7	10/13/10 22:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.7	10/13/10 22:41/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/19/10 02:15/eli-c
Silver	ND	mg/L		0.005		1	E200.7	10/13/10 22:41/eli-c
Strontium	2.7	mg/L		0.1		1	E200.7	10/13/10 22:41/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/19/10 02:15/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/19/10 02:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	10/13/10 22:41/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.23	%				1	A1030 E	11/09/10 00:00/lkl
Anions	14.9	meq/L				1	A1030 E	11/09/10 00:00/lkl
Cations	15.3	meq/L				1	A1030 E	11/09/10 00:00/lkl
Solids, Total Dissolved Calculated	988	mg/L				1	A1030 E	11/09/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	11/09/10 00:00/lkl

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.
B - The analyte was detected in the method blank.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	192	mg/L		5		1	A2320 B	10/08/10 10:11/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/08/10 10:11/hv
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	10/08/10 10:11/hv
Calcium	166	mg/L		0.5		2	E200.7	10/15/10 11:53/eli-c
Chloride	10	mg/L	B	1		1	E300.0	10/01/10 05:13/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/01/10 05:13/jmh
Magnesium	47.9	mg/L		0.5		2	E200.7	10/15/10 11:53/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/30/10 15:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/10 23:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/10 23:53/jmh
Potassium	11.6	mg/L		0.5		2	E200.7	10/15/10 11:53/eli-c
Sodium	132	mg/L	D	0.6		2	E200.7	10/15/10 11:53/eli-c
Sulfate	687	mg/L	D	20		20	E300.0	09/29/10 23:00/jmh
Silica	8.6	mg/L		0.2		2	E200.7	10/15/10 11:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1560	umhos/cm		5.0		1	A2510 B	10/05/10 15:51/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	10/05/10 16:45/jmh
pH	7.44	s.u.		0.01		1	A4500-H B	10/05/10 09:01/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	11/09/10 16:57/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	09/29/10 16:55/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/12/10 15:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Boron	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/12/10 15:03/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/12/10 15:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/12/10 15:03/eli-c
Iron	ND	mg/L		0.03		1	E200.8	10/12/10 15:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/12/10 15:03/eli-c
Manganese	0.53	mg/L		0.01		1	E200.8	10/12/10 15:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/12/10 15:03/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/12/10 15:03/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/09/10 15:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/12/10 15:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/12/10 15:03/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0081	mg/L		0.0003		1	E200.8	10/12/10 15:03/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/12/10 15:03/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/14/10 00:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/09/10 12:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/09/10 16:30/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.5	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha precision (±)	5.2	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha MDC	6.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta	21.3	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta MDC	5.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	10/30/10 23:12/eli-cs
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	10/30/10 23:12/eli-cs
Lead 210 MDC	2.0	pCi/L				1	E909.0M	10/30/10 23:12/eli-cs
Polonium 210	-0.075	pCi/L	U			1	E912.0	10/28/10 09:35/eli-ca
Polonium 210 MDC	1.4	pCi/L				1	E912.0	10/28/10 09:35/eli-ca
Polonium 210 precision (±)	0.50	pCi/L				1	E912.0	10/28/10 09:35/eli-ca
Radium 226	2.0	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Thorium 230	0.008	pCi/L	U			1	E907.0	10/19/10 13:09/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Gross Gamma	470	pCi/L				1	E901.1	10/04/10 09:40/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	10/04/10 09:40/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	11/14/10 17:52/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/14/10 17:52/eli-cs
Lead 210 MDC	1.5	pCi/L				1	E909.0M	11/14/10 17:52/eli-cs
Polonium 210	-0.0047	pCi/L	U			1	E912.0	10/20/10 08:49/eli-ca
Polonium 210 precision (±)	0.086	pCi/L				1	E912.0	10/20/10 08:49/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.22	pCi/L				1	E912.0	10/20/10 08:49/eli-ca
Radium 226	-0.02	pCi/L	U			1	E903.0	10/25/10 13:50/eli-c
Radium 226 precision (±)	0.03	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Radium 226 MDC	0.05	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Thorium 230	0.05	pCi/L	U			1	E907.0	10/20/10 15:27/eli-c
Thorium 230 MDC	0.08	pCi/L				1	E907.0	10/20/10 15:27/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	10/20/10 15:27/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	300	pCi/L		100		1	D5072-92	10/01/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/19/10 02:21/eli-c
Arsenic	0.002	mg/L	B	0.001		1	E200.8	10/19/10 02:21/eli-c
Barium	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Beryllium	ND	mg/L		0.001		1	E200.7	10/13/10 22:45/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.7	10/13/10 22:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	10/13/10 22:45/eli-c
Copper	ND	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	10/13/10 22:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Manganese	0.57	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/01/10 15:54/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.7	10/13/10 22:45/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Silver	ND	mg/L		0.005		1	E200.7	10/13/10 22:45/eli-c
Strontium	2.3	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Uranium	0.0085	mg/L		0.0003		1	E200.8	10/19/10 02:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.400	%				1	A1030 E	11/09/10 00:00/lkl
Anions	18.4	meq/L				1	A1030 E	11/09/10 00:00/lkl
Cations	18.3	meq/L				1	A1030 E	11/09/10 00:00/lkl
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	11/09/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	11/09/10 00:00/lkl

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.
B - The analyte was detected in the method blank.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/20/10
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 101008A-ALK-SEL-W	
Sample ID: LCS1_101008A	Laboratory Control Sample					Run: PH_COND1-R_101008A			10/08/10 09:32	
Alkalinity, Total as CaCO3		964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_101008A	Method Blank					Run: PH_COND1-R_101008A			10/08/10 09:39	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10090445-001AMS	Sample Matrix Spike					Run: PH_COND1-R_101008A			10/08/10 09:53	
Alkalinity, Total as CaCO3		288	mg/L	5.0	125	80	120			S
Sample ID: R10090445-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101008A			10/08/10 10:00	
Alkalinity, Total as CaCO3		286	mg/L	5.0	123	80	120	0.7	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 101005_1_COND-PROBE-W	
Sample ID: LCS1-1_101005		Laboratory Control Sample				Run: PH_COND2-R_101005B			10/05/10 15:23	
Conductivity @ 25 C		153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_101005		Laboratory Control Sample				Run: PH_COND2-R_101005B			10/05/10 15:25	
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_101005		Laboratory Control Sample				Run: PH_COND2-R_101005B			10/05/10 15:27	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101005		Method Blank				Run: PH_COND2-R_101005B			10/05/10 15:29	
Conductivity @ 25 C		ND	umhos/cm	5						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/20/10
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 100929A-SLDS-TDS-W	
Sample ID: MBLK1_100929A		Method Blank				Run: BAL-4-R_100929B			09/29/10 16:55	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: LCS1_100929A		Laboratory Control Sample				Run: BAL-4-R_100929B			09/29/10 16:55	
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	105	90	110			
Sample ID: R10090474-001BMS		Sample Matrix Spike				Run: BAL-4-R_100929B			09/29/10 16:55	
Solids, Total Dissolved TDS @ 180 C		1700	mg/L	10	105	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 101005-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_101005A			10/05/10 16:45	
Oxidation-Reduction Potential		480	mV		101	95	105			
Sample ID: R10090519-001F	Sample Duplicate					Run: PH_COND1-R_101005A			10/05/10 16:45	
Oxidation-Reduction Potential		280	mV					6.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_27769
Sample ID: MB-27769		Method Blank				Run: SUB-C138337				10/09/10 12:30
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-27769		Laboratory Control Sample				Run: SUB-C138337				10/09/10 12:32
Selenium-IV		0.049	mg/L	0.0010	99	90	110			
Sample ID: R10090519-001E		Sample Matrix Spike				Run: SUB-C138337				10/09/10 12:36
Selenium-IV		0.049	mg/L	0.0010	99	85	115			
Sample ID: R10090519-001E		Sample Matrix Spike Duplicate				Run: SUB-C138337				10/09/10 12:39
Selenium-IV		0.049	mg/L	0.0010	98	85	115	1.1	10	
Method: A3114 B										Batch: C_27769
Sample ID: MB-27769		Method Blank				Run: SUB-C138338				10/09/10 15:22
Selenium		ND	mg/L	0.0003						
Sample ID: LCS-27769		Laboratory Control Sample				Run: SUB-C138338				10/09/10 15:39
Selenium		0.061	mg/L	0.0010	122	90	110			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10090519-001E		Sample Matrix Spike				Run: SUB-C138338				10/09/10 15:44
Selenium		0.042	mg/L	0.0010	84	85	115			S
Sample ID: R10090519-001E		Sample Matrix Spike Duplicate				Run: SUB-C138338				10/09/10 15:46
Selenium		0.040	mg/L	0.0010	80	85	115	5.6	15	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/20/10
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										Batch: 101005_1_PH-W
Sample ID: LCS_pH-1_101005	Laboratory Control Sample					Run: PH_COND2-R_101005A				10/05/10 08:48
pH		7.41	s.u.	0.010	100	98.55	101.45			
Sample ID: R10090519-001ADUP	Sample Duplicate					Run: PH_COND2-R_101005A				10/05/10 08:57
pH		7.77	s.u.	0.010				0.0	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-09-30_2_NH3_01	
Sample ID: MBLK-2		Method Blank				Run: TECHAA2-R_100930A			09/30/10 14:37	
Nitrogen, Ammonia as N		ND	mg/L	0.01						
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHAA2-R_100930A			09/30/10 14:41	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	103	90	110			
Sample ID: R10090519-002BMS		Sample Matrix Spike				Run: TECHAA2-R_100930A			09/30/10 15:40	
Nitrogen, Ammonia as N		0.23	mg/L	0.10	93	80	120			
Sample ID: R10090519-002BMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_100930A			09/30/10 15:41	
Nitrogen, Ammonia as N		0.24	mg/L	0.10	95	80	120	2.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_27779
Sample ID: MB-27779	13	Method Blank				Run: SUB-C138497				10/13/10 21:44
Barium		ND	mg/L	0.002						
Beryllium		ND	mg/L	0.0001						
Boron		0.01	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		0.0006	mg/L	0.0002						
Zinc		ND	mg/L	0.008						
Sample ID: LCS3-27779	13	Laboratory Control Sample				Run: SUB-C138497				10/13/10 21:48
Barium		0.550	mg/L	0.10	110	85	115			
Beryllium		0.273	mg/L	0.010	109	85	115			
Boron		0.525	mg/L	0.10	103	85	115			
Cadmium		0.268	mg/L	0.010	107	85	115			
Chromium		0.540	mg/L	0.050	108	85	115			
Copper		0.540	mg/L	0.010	108	85	115			
Iron		2.81	mg/L	0.030	112	85	115			
Manganese		2.71	mg/L	0.010	108	85	115			
Molybdenum		0.540	mg/L	0.10	108	85	115			
Nickel		0.556	mg/L	0.050	111	85	115			
Silver		0.0511	mg/L	0.010	102	85	115			
Strontium		0.547	mg/L	0.10	109	85	115			
Zinc		0.544	mg/L	0.010	109	85	115			
Sample ID: R10090519-002D	13	Sample Matrix Spike				Run: SUB-C138497				10/13/10 22:49
Barium		0.546	mg/L	0.10	107	70	130			
Beryllium		0.265	mg/L	0.010	106	70	130			
Boron		0.606	mg/L	0.10	107	70	130			
Cadmium		0.262	mg/L	0.010	105	70	130			
Chromium		0.532	mg/L	0.050	106	70	130			
Copper		0.540	mg/L	0.010	108	70	130			
Iron		2.77	mg/L	0.030	110	70	130			
Manganese		3.23	mg/L	0.010	106	70	130			
Molybdenum		0.530	mg/L	0.10	106	70	130			
Nickel		0.540	mg/L	0.050	108	70	130			
Silver		0.0529	mg/L	0.010	106	70	130			
Strontium		2.90	mg/L	0.10		70	130			A
Zinc		0.534	mg/L	0.010	107	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_27779	
Sample ID: R10090519-002D	13	Sample Matrix Spike Duplicate			Run: SUB-C138497				10/13/10 22:53	
Barium		0.556	mg/L	0.10	109	70	130	1.8	20	
Beryllium		0.272	mg/L	0.010	109	70	130	2.4	20	
Boron		0.629	mg/L	0.10	112	70	130	3.7	20	
Cadmium		0.269	mg/L	0.010	108	70	130	2.7	20	
Chromium		0.543	mg/L	0.050	109	70	130	2.0	20	
Copper		0.549	mg/L	0.010	110	70	130	1.7	20	
Iron		2.84	mg/L	0.030	112	70	130	2.2	20	
Manganese		3.30	mg/L	0.010	109	70	130	2.1	20	
Molybdenum		0.547	mg/L	0.10	109	70	130	3.2	20	
Nickel		0.558	mg/L	0.050	112	70	130	3.3	20	
Silver		0.0528	mg/L	0.010	106	70	130	0.2	20	
Strontium		3.04	mg/L	0.10		70	130	4.6	20	A
Zinc		0.545	mg/L	0.010	109	70	130	2.0	20	
Method: E200.7									Batch: C_R138676	
Sample ID: MB-101015A	4	Method Blank			Run: SUB-C138676				10/15/10 10:48	
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101015A	5	Laboratory Fortified Blank			Run: SUB-C138676				10/15/10 10:53	
Calcium		49	mg/L	0.50	97	85	115			
Magnesium		50	mg/L	0.50	100	85	115			
Potassium		46	mg/L	0.50	93	85	115			
Sodium		49	mg/L	0.50	99	85	115			
Silica		0.96	mg/L	0.21	96	85	115			
Sample ID: R10090519-001C	4	Sample Matrix Spike			Run: SUB-C138676				10/15/10 11:45	
Calcium		193	mg/L	1.0	96	70	130			
Magnesium		133	mg/L	1.0	97	70	130			
Potassium		102	mg/L	1.0	89	70	130			
Sodium		273	mg/L	1.0	102	70	130			
Sample ID: R10090519-001C	4	Sample Matrix Spike Duplicate			Run: SUB-C138676				10/15/10 11:49	
Calcium		194	mg/L	1.0	96	70	130	0.3	20	
Magnesium		133	mg/L	1.0	96	70	130	0.2	20	
Potassium		102	mg/L	1.0	89	70	130	0.2	20	
Sodium		268	mg/L	1.0	98	70	130	1.7	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R138415A	
Sample ID: C10091252-010BMS4	18	Post Digestion Spike				Run: SUB-C138415			10/12/10 14:08	
Aluminum		0.0597	mg/L	0.10	96	70	130			
Arsenic		0.0525	mg/L	0.0010	105	70	130			
Barium		0.0882	mg/L	0.10	102	70	130			
Boron		0.117	mg/L	0.10	95	70	130			
Cadmium		0.0502	mg/L	0.010	100	70	130			
Chromium		0.0508	mg/L	0.050	102	70	130			
Copper		0.0512	mg/L	0.010	102	70	130			
Iron		1.28	mg/L	0.030	99	70	130			
Lead		0.0516	mg/L	0.050	103	70	130			
Manganese		0.0748	mg/L	0.010	97	70	130			
Mercury		0.00498	mg/L	0.0010	100	70	130			
Molybdenum		0.0557	mg/L	0.10	103	70	130			
Nickel		0.0497	mg/L	0.050	99	70	130			
Silver		0.0182	mg/L	0.010	91	70	130			
Thorium 232		0.0500	mg/L	0.0010	100	70	130			
Uranium		0.0533	mg/L	0.00030	100	70	130			
Vanadium		0.0513	mg/L	0.10	103	70	130			
Zinc		0.0538	mg/L	0.010	104	70	130			
Sample ID: C10091252-010BMSD4	18	Post Digestion Spike Duplicate				Run: SUB-C138415			10/12/10 14:15	
Aluminum		0.0612	mg/L	0.0010	99	70	130	2.4	20	
Arsenic		0.0539	mg/L	0.0010	108	70	130	2.7	20	
Barium		0.0900	mg/L	0.0010	105	70	130	2.0	20	
Boron		0.120	mg/L	0.10	100	70	130	2.1	20	
Cadmium		0.0518	mg/L	0.010	104	70	130	3.2	20	
Chromium		0.0522	mg/L	0.050	104	70	130	2.8	20	
Copper		0.0521	mg/L	0.010	104	70	130	1.7	20	
Iron		1.32	mg/L	0.030	103	70	130	3.5	20	
Lead		0.0535	mg/L	0.050	107	70	130	3.7	20	
Manganese		0.0767	mg/L	0.010	101	70	130	2.5	20	
Mercury		0.00524	mg/L	0.0010	105	70	130	5.0	20	
Molybdenum		0.0588	mg/L	0.0010	109	70	130	5.4	20	
Nickel		0.0506	mg/L	0.0010	101	70	130	1.8	20	
Silver		0.0206	mg/L	0.010	103	70	130	12	20	
Thorium 232		0.0521	mg/L	0.0010	104	70	130	3.9	20	
Uranium		0.0554	mg/L	0.00030	104	70	130	3.9	20	
Vanadium		0.0524	mg/L	0.0010	105	70	130	2.1	20	
Zinc		0.0549	mg/L	0.010	106	70	130	1.9	20	
Sample ID: LRB	18	Method Blank				Run: SUB-C138415			10/11/10 16:22	
Aluminum		ND	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Boron		0.0002	mg/L							
Cadmium		ND	mg/L	7E-05						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc **Report Date:** 12/20/10

Project: Dewey Groundwater Sampling **Work Order:** R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R138415A	
Sample ID: LRB	18	Method Blank				Run: SUB-C138415			10/11/10 16:22	
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		ND	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Mercury		3E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Thorium 232		ND	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0001						
Sample ID: LFB	18	Laboratory Fortified Blank				Run: SUB-C138415			10/11/10 16:29	
Aluminum		0.0486	mg/L	0.0010	97	85	115			
Arsenic		0.0527	mg/L	0.0010	105	85	115			
Barium		0.0508	mg/L	0.0010	102	85	115			
Boron		0.0527	mg/L	0.0010	105	85	115			
Cadmium		0.0516	mg/L	0.0010	103	85	115			
Chromium		0.0526	mg/L	0.0010	105	85	115			
Copper		0.0532	mg/L	0.0010	106	85	115			
Iron		1.29	mg/L	0.012	103	85	115			
Lead		0.0513	mg/L	0.0010	103	85	115			
Manganese		0.0507	mg/L	0.0010	101	85	115			
Mercury		0.00522	mg/L	0.0010	104	85	115			
Molybdenum		0.0513	mg/L	0.0010	102	85	115			
Nickel		0.0532	mg/L	0.0010	106	85	115			
Silver		0.0199	mg/L	0.0010	99	85	115			
Thorium 232		0.0503	mg/L	0.0010	101	85	115			
Uranium		0.0498	mg/L	0.00030	100	85	115			
Vanadium		0.0526	mg/L	0.0010	105	85	115			
Zinc		0.0550	mg/L	0.0010	110	85	115			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc **Report Date:** 12/20/10

Project: Dewey Groundwater Sampling **Work Order:** R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_27779
Sample ID: MB-27779	6	Method Blank				Run: SUB-C138669				10/19/10 01:00
Antimony		0.0002	mg/L	0.0002						
Arsenic		0.001	mg/L	0.0003						
Lead		ND	mg/L	5E-05						
Selenium		ND	mg/L	0.0007						
Thallium		ND	mg/L	5E-05						
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-27779	6	Laboratory Control Sample				Run: SUB-C138669				10/19/10 01:07
Antimony		0.601	mg/L	0.050	120	85	115			S
Arsenic		0.519	mg/L	0.0010	103	85	115			
Lead		0.549	mg/L	0.050	110	85	115			
Selenium		0.506	mg/L	0.0010	101	85	115			
Thallium		0.534	mg/L	0.10	107	85	115			
Uranium		0.574	mg/L	0.00030	115	85	115			
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10090519-002D	6	Sample Matrix Spike				Run: SUB-C138669				10/19/10 02:28
Antimony		0.599	mg/L	0.050	120	70	130			
Arsenic		0.525	mg/L	0.0010	105	70	130			
Lead		0.548	mg/L	0.050	110	70	130			
Selenium		0.500	mg/L	0.0010	100	70	130			
Thallium		0.532	mg/L	0.10	106	70	130			
Uranium		0.605	mg/L	0.00030	119	70	130			
Sample ID: R10090519-002D	6	Sample Matrix Spike Duplicate				Run: SUB-C138669				10/19/10 02:35
Antimony		0.608	mg/L	0.050	122	70	130	1.5	20	
Arsenic		0.529	mg/L	0.0010	105	70	130	0.8	20	
Lead		0.554	mg/L	0.050	111	70	130	1.1	20	
Selenium		0.507	mg/L	0.0010	101	70	130	1.5	20	
Thallium		0.539	mg/L	0.10	108	70	130	1.3	20	
Uranium		0.606	mg/L	0.00030	119	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B154899	
Sample ID: QCS		Initial Calibration Verification Standard							10/01/10 14:42	
Mercury		0.0020	mg/L	0.0010	100	90	110			
Method: E245.1									Batch: B_49478	
Sample ID: MB-49478		Method Blank				Run: SUB-B154899			10/01/10 15:33	
Mercury		3E-05	mg/L	1E-05						
Sample ID: LCS-49478		Laboratory Control Sample				Run: SUB-B154899			10/01/10 15:37	
Mercury		0.0020	mg/L	0.0010	97	85	115			
Sample ID: B10100063-001BMS		Sample Matrix Spike				Run: SUB-B154899			10/01/10 15:47	
Mercury		0.0010	mg/L	0.0010	49	70	130			S
Sample ID: B10100063-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B154899			10/01/10 15:48	
Mercury		0.0010	mg/L	0.0010	50	70	130	1.0	30	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: DIONEX_100929A	
Sample ID: CCV092910-15	3	Continuing Calibration Verification Standard							09/29/10 18:17	
Nitrogen, Nitrate as N		7.02	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N		7.11	mg/L	0.10	95	90	110			
Sulfate		72.1	mg/L	1.0	96	90	110			
Sample ID: CCV092910-34	3	Continuing Calibration Verification Standard							09/29/10 22:07	
Nitrogen, Nitrate as N		7.50	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		7.61	mg/L	0.10	101	90	110			
Sulfate		77.1	mg/L	1.0	103	90	110			
Method: E300.0									Batch: R48299	
Sample ID: LFB092910-14	3	Laboratory Fortified Blank				Run: DIONEX_100929A			09/29/10 17:59	
Nitrogen, Nitrate as N		3.71	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N		3.78	mg/L	0.10	95	90	110			
Sulfate		37.3	mg/L	1.0	93	90	110			
Sample ID: R10090519-002AMS	3	Sample Matrix Spike				Run: DIONEX_100929A			09/29/10 23:17	
Nitrogen, Nitrate as N		80.6	mg/L	2.0	101	90	110			
Nitrogen, Nitrite as N		81.5	mg/L	2.0	102	90	110			
Sulfate		1530	mg/L	20	105	90	110			
Sample ID: R10090519-002AMSD	3	Sample Matrix Spike Duplicate				Run: DIONEX_100929A			09/29/10 23:35	
Nitrogen, Nitrate as N		80.6	mg/L	2.0	101	90	110	0.1	10	
Nitrogen, Nitrite as N		81.7	mg/L	2.0	102	90	110	0.1	10	
Sulfate		1530	mg/L	20	105	90	110	0.4	10	
Method: E300.0									Analytical Run: DIONEX_100930A	
Sample ID: CCV093010-28	2	Continuing Calibration Verification Standard							10/01/10 02:16	
Chloride		73.3	mg/L	1.00	98	90	110			
Fluoride		7.36	mg/L	0.10	98	90	110			
Method: E300.0									Batch: R48311	
Sample ID: LFB093010-14	2	Laboratory Fortified Blank				Run: DIONEX_100930A			09/30/10 22:27	
Chloride		37.9	mg/L	1.00	95	90	110			
Fluoride		4.02	mg/L	0.10	101	90	110			
Sample ID: R10090533-003AMS	2	Sample Matrix Spike				Run: DIONEX_100930A			10/01/10 03:09	
Chloride		41.5	mg/L	1.00	93	90	110			
Fluoride		4.28	mg/L	0.10	93	90	110			
Sample ID: R10090533-003AMSD	2	Sample Matrix Spike Duplicate				Run: DIONEX_100930A			10/01/10 03:27	
Chloride		41.4	mg/L	1.00	93	90	110	0.0	10	
Fluoride		4.27	mg/L	0.10	93	90	110	0.1	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc **Report Date:** 12/20/10

Project: Dewey Groundwater Sampling **Work Order:** R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0985	
Sample ID: MB-GrAB-0985	6	Method Blank			Run: SUB-C139230				10/28/10 02:53	
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0985		Laboratory Control Sample			Run: SUB-C139230				10/28/10 02:53	
Gross Alpha		100	pCi/L		103	70	130			
Sample ID: Cs137-GrAB-0985		Laboratory Control Sample			Run: SUB-C139230				10/28/10 02:53	
Gross Beta		92	pCi/L		106	70	130			
Sample ID: C10100071-002CDUP	6	Sample Duplicate			Run: SUB-C139230				10/28/10 02:53	
Gross Alpha		220	pCi/L					1.1	17.5	
Gross Alpha precision (±)		8.2	pCi/L							
Gross Alpha MDC		4.0	pCi/L							
Gross Beta		77	pCi/L					4.4	18.2	
Gross Beta precision (±)		3.2	pCi/L							
Gross Beta MDC		3.4	pCi/L							
Sample ID: C10100261-001DMS		Sample Matrix Spike			Run: SUB-C139230				10/28/10 20:13	
Gross Alpha		114	pCi/L		94	70	130			
Sample ID: C10100261-001DMSD		Sample Matrix Spike Duplicate			Run: SUB-C139230				10/28/10 20:14	
Gross Alpha		130	pCi/L		110	70	130	13	17.2	
Sample ID: C10100261-001DMS		Sample Matrix Spike			Run: SUB-C139230				10/28/10 20:14	
Gross Beta		104	pCi/L		103	70	130			
Sample ID: C10100261-001DMSD		Sample Matrix Spike Duplicate			Run: SUB-C139230				10/28/10 20:14	
Gross Beta		95.6	pCi/L		94	70	130	8.0	15.4	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R138187
Sample ID: LCS-R138187	3	Laboratory Control Sample				Run: SUB-C138187				10/04/10 09:40
Americium 241		710	pCi/L	20	87	70	130			
Cesium 137		930	pCi/L	20	93	70	130			
Potassium 40		6200	pCi/L	20	93	70	130			
Sample ID: MB-R138187	23	Method Blank				Run: SUB-C138187				10/04/10 09:40
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10090519-002H	22	Sample Duplicate				Run: SUB-C138187				10/04/10 09:40
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40		ND	pCi/L	20					30	
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R138187
Sample ID: R10090519-002H	22	Sample Duplicate				Run: SUB-C138187				10/04/10 09:40
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		440	pCi/L					7.6	30	
Gross Gamma precision (±)		130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/20/10
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4869
Sample ID: R10090519-001H		Sample Matrix Spike				Run: SUB-C138511				10/13/10 14:58
Radium 226		15	pCi/L		102	70	130			
Sample ID: R10090519-001H		Sample Matrix Spike Duplicate				Run: SUB-C138511				10/13/10 14:58
Radium 226		17	pCi/L		101	70	130	10	23.3	
Sample ID: MB-RA226-4869	3	Method Blank				Run: SUB-C138511				10/13/10 17:08
Radium 226		-0.04	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4869		Laboratory Control Sample				Run: SUB-C138511				10/13/10 17:08
Radium 226		8.2	pCi/L		104	70	130			
Method: E903.0										Batch: C_27802
Sample ID: R10090519-001I		Sample Matrix Spike				Run: SUB-C139019				10/25/10 13:50
Radium 226		78	pCi/L		102	70	130			
Sample ID: R10090519-001I		Sample Matrix Spike Duplicate				Run: SUB-C139019				10/25/10 13:50
Radium 226		87	pCi/L		112	70	130	11	20.1	
Sample ID: LCS-27802		Laboratory Control Sample				Run: SUB-C139019				10/25/10 23:12
Radium 226		13.7	pCi/Filter		92	70	130			
Sample ID: MB-27802	3	Method Blank				Run: SUB-C139019				10/25/10 23:12
Radium 226		-0.1	pCi/Filter							U
Radium 226 precision (±)		0.1	pCi/Filter							
Radium 226 MDC		0.2	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_RA-TH-ISO-1268	
Sample ID: LCS-RA-TH-ISO-1268		Laboratory Control Sample				Run: SUB-C138766			10/19/10 13:09	
Thorium 230		5.0	pCi/L		91	70	130			
Sample ID: R10090519-002H		Sample Matrix Spike				Run: SUB-C138766			10/19/10 13:09	
Thorium 230		12	pCi/L		91	70	130			
Sample ID: R10090519-002H		Sample Matrix Spike Duplicate				Run: SUB-C138766			10/19/10 13:09	
Thorium 230		12	pCi/L		90	70	130	0.7	41	
Sample ID: MB-RA-TH-ISO-1268	3	Method Blank				Run: SUB-C138766			10/19/10 17:19	
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.08	pCi/L							
Method: E907.0									Batch: C_27802	
Sample ID: C10100194-003AMS		Sample Matrix Spike				Run: SUB-C138997			10/20/10 15:27	
Thorium 230		25.1	pCi/Filter		101	70	130			
Sample ID: C10100194-003AMSD		Sample Matrix Spike Duplicate				Run: SUB-C138997			10/20/10 15:27	
Thorium 230		23.8	pCi/Filter		95	70	130	5.3	34.6	
Sample ID: LCS-27802		Laboratory Control Sample				Run: SUB-C138997			10/20/10 15:27	
Thorium 230		4.85	pCi/Filter		103	70	130			
Sample ID: MB-27802	3	Method Blank				Run: SUB-C138997			10/20/10 15:27	
Thorium 230		-0.2	pCi/Filter							U
Thorium 230 MDC		0.09	pCi/Filter							
Thorium 230 precision (±)		0.06	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc **Report Date:** 12/20/10

Project: Dewey Groundwater Sampling **Work Order:** R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: T_PB-210-0024
Sample ID: MB-PB-210-0024	3	Method Blank				Run: SUB-T37512				10/29/10 12:34
Lead 210			pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0024		Laboratory Control Sample				Run: SUB-T37512				10/29/10 16:39
Lead 210		48	pCi/L		88	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T37512				10/29/10 20:43
Lead 210		64	pCi/L		116	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T37512				10/29/10 22:46
Lead 210		64	pCi/L		116	70	130	0.0	15.7	
Method: E909.0M										Batch: T_12635
Sample ID: MB-12635	3	Method Blank				Run: SUB-T37661				11/14/10 06:55
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-12635		Laboratory Control Sample				Run: SUB-T37661				11/14/10 09:06
Lead 210		120	pCi/L		55	70	130			S
Sample ID: R10090519-001I		Sample Matrix Spike				Run: SUB-T37661				11/14/10 13:29
Lead 210		380	pCi/L		86	70	130			
Sample ID: R10090519-001I		Sample Matrix Spike Duplicate				Run: SUB-T37661				11/14/10 15:40
Lead 210		310	pCi/L		71	70	130	20	16.7	R

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/20/10
Project: Dewey Groundwater Sampling
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0321
Sample ID: C10100003-001GMS		Sample Matrix Spike				Run: SUB-C138717				10/18/10 08:37
Polonium 210		31	pCi/L		92	70	130			
Sample ID: C10100003-001GMSD		Sample Matrix Spike Duplicate				Run: SUB-C138717				10/18/10 08:37
Polonium 210		40	pCi/L		118	70	130	24	57	
Sample ID: LCS-PO210-0321		Laboratory Control Sample				Run: SUB-C138717				10/18/10 08:37
Polonium 210		17	pCi/L		101	70	130			
Sample ID: MB-PO210-0321	3	Method Blank				Run: SUB-C138717				10/18/10 08:37
Polonium 210		0.3	pCi/L							U
Polonium 210 MDC		0.5	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Method: E912.0										Batch: C_27802
Sample ID: R10090519-002I		Sample Matrix Spike				Run: SUB-C138957				10/20/10 08:49
Polonium 210		14	pCi/L		96	70	130			
Sample ID: R10090519-002I		Sample Matrix Spike Duplicate				Run: SUB-C138957				10/20/10 08:49
Polonium 210		17	pCi/L		116	70	130	19	57.6	
Sample ID: LCS-27802		Laboratory Control Sample				Run: SUB-C138957				10/20/10 08:49
Polonium 210		74	pCi/L		96	70	130			
Sample ID: MB-27802	3	Method Blank				Run: SUB-C138957				10/20/10 08:49
Polonium 210		ND	pCi/L							U
Polonium 210 precision (±)		0.8	pCi/L							
Polonium 210 MDC		2	pCi/L							
Method: E912.0										Batch: C_PO210-0324
Sample ID: C10100729-001FMS		Sample Matrix Spike				Run: SUB-C139322				10/28/10 09:35
Polonium 210		33	pCi/L		98	70	130			
Sample ID: C10100729-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C139322				10/28/10 09:35
Polonium 210		34	pCi/L		100	70	130	1.4	62.3	
Sample ID: MB-PO210-0324	3	Method Blank				Run: SUB-C139322				10/28/10 09:36
Polonium 210		0.05	pCi/L							U
Polonium 210 MDC		0.5	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							
Sample ID: LCS-PO210-0324		Laboratory Control Sample				Run: SUB-C139322				10/28/10 09:36
Polonium 210		18	pCi/L		113	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES

Chain of Custody and Analysis Request

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Scott Environmental	Powertech – Dewey Burdock	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
Scott Env. / Powertech	Allen Scott	Scotten@gwtc.net	
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
Powertech			

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

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

ANALYSIS REQUESTED

SEE ATTACHED

As per quote

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
1	OB-09-21-01	9-28-10		Water
2	OB-09-21-02	9-28-10		"
3				
4				
5				
6				
7				
8				
9				
10				

LABORATORY USE ONLY

Shipped by:
Cooler ID(s):
Receipt Temp 16.0 °C
On Ice: Y N
Custody Seal On Bottle Y N / On Cooler Y N
Intact Y N
Signature Match Y N

R100905190014
002A

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Allen Scott	9-29-10 8:45 am	Allen Scott			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Steve Fontana	9-29-10 8:45	

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, and links.

ANALYTICAL SUMMARY REPORT

December 29, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10100355

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 10/26/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10100355-001	DB-09-21-01	10/25/10 0:00	10/26/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10100355-002	DB-09-21-02	10/25/10 0:00	10/26/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by
Linda Larson
Date: 2010.12.29 13:06:51 -07:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10100355

Report Date: 12/29/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.
Comments imported for SUBBED Workorder: C10101128
GROSS GAMMA ANALYSIS
The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

TH230 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10101128

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Calcium	93.8	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Chloride	7	mg/L		1		1	E300.0	10/26/10 22:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Magnesium	33.7	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/01/10 12:17/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Potassium	11.3	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Sodium	162	mg/L	D	0.6		2	E200.7	11/10/10 15:07/eli-c
Sulfate	524	mg/L	D	20		20	E300.0	10/26/10 21:30/jmh
Silica	8.2	mg/L		0.2		1	E200.8	11/10/10 03:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	10/27/10 17:05/hv
Oxidation-Reduction Potential	270	mV				1	A2580 B	11/01/10 17:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	10/29/10 11:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	12/07/10 10:07/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L	D	10		1	A2540 C	10/27/10 16:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/10/10 03:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/01/10 19:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/01/10 19:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/10/10 03:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/01/10 19:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/15/10 14:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/01/10 19:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/10/10 03:11/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/01/10 19:04/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Zinc	ND	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 18:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/15/10 13:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/16/10 10:52/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.6	pCi/L	U			1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha MDC	6.0	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta	9.7	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta MDC	5.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Lead 210	-0.5	pCi/L	U			1	E909.0M	11/21/10 20:04/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/21/10 20:04/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0M	11/21/10 20:04/eli-cs
Polonium 210	-0.035	pCi/L	U			1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 MDC	0.71	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Radium 226	2.4	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	11/16/10 16:16/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Gross Gamma	670	pCi/L				1	E901.1	11/01/10 10:00/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	11/01/10 10:00/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	12/16/10 23:03/eli-cs
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	12/16/10 23:03/eli-cs
Lead 210 MDC	3.2	pCi/L				1	E909.0M	12/16/10 23:03/eli-cs
Polonium 210	-0.013	pCi/L	U			1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Radium 226	0.1	pCi/L	U			1	E903.0	11/23/10 01:20/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	11/23/10 01:20/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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.1	pCi/L				1	E903.0	11/23/10 01:20/eli-c
Thorium 230	-0.3	pCi/L	U			1	E907.0	11/16/10 16:13/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	11/16/10 16:13/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	11/16/10 16:13/eli-c
- See Case Narrative regarding Th230 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	202	pCi/L		100		1	D5072-92	10/27/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/01/10 19:38/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/01/10 19:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/01/10 19:38/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/01/10 19:38/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/04/10 14:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/01/10 19:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/01/10 19:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/01/10 19:38/eli-c
Iron	0.21	mg/L		0.03		2	E200.7	11/04/10 14:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/01/10 19:38/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	11/01/10 19:38/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/28/10 17:04/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/01/10 19:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/01/10 19:38/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	11/01/10 19:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/01/10 19:38/eli-c
Strontium	2.8	mg/L		0.1		1	E200.8	11/01/10 19:38/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/01/10 19:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/01/10 19:38/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/01/10 19:38/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.850	%				1	A1030 E	12/07/10 00:00/jmh
Anions	14.5	meq/L				1	A1030 E	12/07/10 00:00/jmh
Cations	14.8	meq/L				1	A1030 E	12/07/10 00:00/jmh
Solids, Total Dissolved Calculated	940	mg/L				1	A1030 E	12/07/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	12/07/10 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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	192	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Calcium	167	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Chloride	9	mg/L		1		1	E300.0	10/26/10 22:58/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Magnesium	47.7	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/01/10 11:37/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Potassium	11.6	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Sodium	132	mg/L	D	0.6		2	E200.7	11/10/10 15:56/eli-c
Sulfate	648	mg/L	D	20		20	E300.0	10/26/10 22:41/jmh
Silica	7.9	mg/L		0.2		1	E200.8	11/10/10 03:17/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1510	umhos/cm		5.0		1	A2510 B	10/27/10 17:05/hv
Oxidation-Reduction Potential	320	mV				1	A2580 B	11/01/10 17:00/jmh
pH	7.59	s.u.		0.01		1	A4500-H B	10/29/10 11:18/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	12/07/10 10:07/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	10/27/10 16:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/10/10 03:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/01/10 19:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/01/10 19:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/10/10 03:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Manganese	0.49	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/01/10 19:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/15/10 14:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/01/10 19:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/10/10 03:17/eli-c
Uranium	0.0086	mg/L		0.0003		1	E200.8	11/01/10 19:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Zinc	ND	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 18:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/15/10 13:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/16/10 10:52/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	19.3	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha precision (±)	5.5	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta	25.8	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta precision (±)	4.6	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta MDC	6.9	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Lead 210	0.1	pCi/L	U			1	E909.0M	11/21/10 22:15/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/21/10 22:15/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0M	11/21/10 22:15/eli-cs
Polonium 210	-0.012	pCi/L	U			1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 MDC	0.54	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Radium 226	2.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Thorium 230	0.001	pCi/L	U			1	E907.0	11/16/10 16:16/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Gross Gamma	490	pCi/L				1	E901.1	11/01/10 10:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	11/01/10 10:00/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.5	pCi/L	U			1	E909.0M	12/17/10 05:36/eli-cs
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	12/17/10 05:36/eli-cs
Lead 210 MDC	3.1	pCi/L				1	E909.0M	12/17/10 05:36/eli-cs
Polonium 210	0.081	pCi/L	U			1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 MDC	0.51	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Radium 226	0.2	pCi/L				1	E903.0	11/23/10 01:20/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	11/23/10 01:20/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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.1	pCi/L				1	E903.0	11/23/10 01:20/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	11/16/10 16:13/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	11/16/10 16:13/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	11/16/10 16:13/eli-c
- See Case Narrative regarding Th230 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	254	pCi/L		100		1	D5072-92	10/27/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/02/10 23:48/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Barium	ND	mg/L		0.1		1	E200.7	11/04/10 01:24/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/02/10 23:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	11/04/10 01:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/02/10 23:48/eli-c
Iron	0.06	mg/L		0.03		1	E200.8	11/02/10 23:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Manganese	0.56	mg/L		0.01		1	E200.7	11/04/10 01:24/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/28/10 17:06/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/02/10 23:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/02/10 23:48/eli-c
Strontium	2.0	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Uranium	0.0089	mg/L		0.0003		1	E200.8	11/06/10 00:22/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/02/10 23:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.02	%				1	A1030 E	12/07/10 00:00/jmh
Anions	17.6	meq/L				1	A1030 E	12/07/10 00:00/jmh
Cations	18.3	meq/L				1	A1030 E	12/07/10 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	12/07/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	12/07/10 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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 101102A-ALK-SEL-W	
Sample ID: LCS1_101102A	Laboratory Control Sample					Run: PH_COND1-R_101102A			11/02/10 08:28	
Alkalinity, Total as CaCO3		1020	mg/L	5.0	102	90	110			
Sample ID: MBLK1_101102A	Method Blank					Run: PH_COND1-R_101102A			11/02/10 08:42	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10100355-001AMS	Sample Matrix Spike					Run: PH_COND1-R_101102A			11/02/10 08:52	
Alkalinity, Total as CaCO3		294	mg/L	5.0	117	80	120			
Sample ID: R10100355-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101102A			11/02/10 08:58	
Alkalinity, Total as CaCO3		296	mg/L	5.0	119	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 101027_1_COND-PROBE-W	
Sample ID: LCS1-1_101027	Laboratory Control Sample					Run: PH_COND2-R_101027A			10/27/10 16:18	
Conductivity @ 25 C		147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_101027	Laboratory Control Sample					Run: PH_COND2-R_101027A			10/27/10 16:33	
Conductivity @ 25 C		5010	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_101027	Laboratory Control Sample					Run: PH_COND2-R_101027A			10/27/10 16:33	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101027	Method Blank					Run: PH_COND2-R_101027A			10/27/10 16:25	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10100260-001BDUP	Sample Duplicate					Run: PH_COND2-R_101027A			10/27/10 16:36	
Conductivity @ 25 C		1480	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101027A-SLDS-TDS-W	
Sample ID: LCS1_101027A	Laboratory Control Sample					Run: BAL-4-R_101027A			10/27/10 16:11	
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10	108	90	110			
Sample ID: MBLK1_101027A	Method Blank					Run: BAL-4-R_101027A			10/27/10 16:12	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	3						
Sample ID: R10100319-001ADUP	Sample Duplicate					Run: BAL-4-R_101027A			10/27/10 16:13	
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10				0.0	5	
Sample ID: R10100382-002AMS	Sample Matrix Spike					Run: BAL-4-R_101027A			10/27/10 16:16	
Solids, Total Dissolved TDS @ 180 C		700	mg/L	10	107	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 101101-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_101101A			11/01/10 17:00	
Oxidation-Reduction Potential		480	mV		101	95	105			
Sample ID: R10100355-002F	Sample Duplicate					Run: PH_COND1-R_101101A			11/01/10 17:00	
Oxidation-Reduction Potential		320	mV					2.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_28215
Sample ID: MB-28215		Method Blank				Run: SUB-C139889				11/15/10 13:39
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-28215		Laboratory Control Sample				Run: SUB-C139889				11/15/10 13:41
Selenium-IV		0.051	mg/L	0.0010	102	90	110			
Sample ID: R10100355-002E		Sample Matrix Spike				Run: SUB-C139889				11/15/10 13:48
Selenium-IV		0.057	mg/L	0.0010	115	85	115			
Sample ID: R10100355-002E		Sample Matrix Spike Duplicate				Run: SUB-C139889				11/15/10 13:50
Selenium-IV		0.055	mg/L	0.0010	111	85	115	3.5	10	
Method: A3114 B										Batch: C_28215
Sample ID: MB-28215		Method Blank				Run: SUB-C139895				11/15/10 14:33
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-28215		Laboratory Control Sample				Run: SUB-C139895				11/15/10 14:35
Selenium		0.046	mg/L	0.0010	92	90	110			
Sample ID: R10100355-001E		Sample Matrix Spike				Run: SUB-C139895				11/15/10 14:42
Selenium		0.056	mg/L	0.0010	112	85	115			
Sample ID: R10100355-001E		Sample Matrix Spike Duplicate				Run: SUB-C139895				11/15/10 14:44
Selenium		0.055	mg/L	0.0010	110	85	115	2.1	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 101029_1_PH-W	
Sample ID: LCS_pH-1_101029	Laboratory Control Sample					Run: PH_COND2-R_101029A			10/29/10 10:42	
pH		7.43	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-11-01_2_NH3_02	
Sample ID: MBLK-2		Method Blank				Run: TECHAA2-R_101101A			11/01/10 09:26	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHAA2-R_101101A			11/01/10 09:27	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	105	90	110			
Sample ID: LFB-4		Laboratory Fortified Blank				Run: TECHAA2-R_101101A			11/01/10 09:28	
Nitrogen, Ammonia as N		0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-5		Laboratory Fortified Blank				Run: TECHAA2-R_101101A			11/01/10 09:29	
Nitrogen, Ammonia as N		0.25	mg/L	0.10	101	90	110			
Sample ID: LFB-6		Laboratory Fortified Blank				Run: TECHAA2-R_101101A			11/01/10 09:30	
Nitrogen, Ammonia as N		0.25	mg/L	0.10	100	90	110			
Sample ID: R10100355-001BMS		Sample Matrix Spike				Run: TECHAA2-R_101101A			11/01/10 11:35	
Nitrogen, Ammonia as N		0.43	mg/L	0.10	107	80	120			
Sample ID: R10100355-001BMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_101101A			11/01/10 11:36	
Nitrogen, Ammonia as N		0.42	mg/L	0.10	104	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C139437	
Sample ID: CRI	3	CRDL Standard for ICP							11/03/10 11:56	
Barium		0.0035	mg/L	0.10	117	50	150			
Chromium		0.021	mg/L	0.050	105	50	150			
Manganese		0.0053	mg/L	0.010	106	50	150			
Sample ID: ICSA	3	Interference Check Sample A							11/03/10 12:00	
Barium		0.0018	mg/L	0.10		0	0			
Chromium		0.0029	mg/L	0.050		0	0			
Manganese		-0.0065	mg/L	0.010		0	0			
Sample ID: ICSAB	3	Interference Check Sample AB							11/03/10 12:04	
Barium		0.52	mg/L	0.10	103	80	120			
Chromium		0.50	mg/L	0.050	99	80	120			
Manganese		0.50	mg/L	0.010	99	80	120			
Method: E200.7									Batch: C_28033	
Sample ID: MB-28033	3	Method Blank				Run: SUB-C139437			11/04/10 00:20	
Barium		0.002	mg/L	0.002						
Chromium		ND	mg/L	0.002						
Manganese		ND	mg/L	0.0008						
Sample ID: LCS3-28033	3	Laboratory Control Sample				Run: SUB-C139437			11/04/10 00:24	
Barium		0.511	mg/L	0.10	102	85	115			
Chromium		0.524	mg/L	0.050	105	85	115			
Manganese		2.60	mg/L	0.010	104	85	115			
Sample ID: R10100355-002D	3	Sample Matrix Spike				Run: SUB-C139437			11/04/10 01:28	
Barium		0.536	mg/L	0.10	105	70	130			
Chromium		0.523	mg/L	0.050	105	70	130			
Manganese		3.20	mg/L	0.010	106	70	130			
Sample ID: R10100355-002D	3	Sample Matrix Spike Duplicate				Run: SUB-C139437			11/04/10 01:32	
Barium		0.524	mg/L	0.10	103	70	130	2.3	20	
Chromium		0.516	mg/L	0.050	103	70	130	1.3	20	
Manganese		3.17	mg/L	0.010	105	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C139485	
Sample ID: CRI	2	CRDL Standard for ICP							11/04/10 11:33	
Boron		0.044	mg/L	0.10	146	50	150			
Iron		0.022	mg/L	0.030	107	50	150			
Sample ID: ICSA	2	Interference Check Sample A							11/04/10 11:37	
Boron		-0.35	mg/L	0.10		0	0			
Iron		190	mg/L	0.030	95	80	120			
Sample ID: ICSAB	2	Interference Check Sample AB							11/04/10 11:41	
Boron		-0.38	mg/L	0.10		0	0			
Iron		190	mg/L	0.030	94	80	120			
Method: E200.7									Batch: C_R139485	
Sample ID: QCS	2	Quality Control Sample				Run: SUB-C139485			11/04/10 11:13	
Boron		1.0	mg/L	0.10	102	95	105			
Iron		5.0	mg/L	0.030	100	95	105			
Sample ID: LFB-101104A	2	Laboratory Fortified Blank				Run: SUB-C139485			11/04/10 12:06	
Boron		0.91	mg/L	0.10	91	85	115			
Iron		0.92	mg/L	0.030	92	85	115			
Sample ID: MB-101104A	2	Method Blank				Run: SUB-C139485			11/04/10 12:16	
Boron		0.01	mg/L	0.009						
Iron		ND	mg/L	0.002						
Sample ID: C10100249-001BMS2	2	Sample Matrix Spike				Run: SUB-C139485			11/04/10 14:25	
Boron		12.8	mg/L	0.10	93	70	130			
Iron		181	mg/L	0.084		70	130			A
Sample ID: C10100249-001BMSD2	2	Sample Matrix Spike Duplicate				Run: SUB-C139485			11/04/10 14:29	
Boron		13.1	mg/L	0.10	97	70	130	2.8	20	
Iron		182	mg/L	0.084		70	130	0.7	20	A
Method: E200.7									Batch: C_28033	
Sample ID: R10100355-002D	3	Sample Matrix Spike				Run: SUB-C139552			11/06/10 10:11	
Barium		0.512	mg/L	0.10	100	70	130			
Chromium		0.519	mg/L	0.050	104	70	130			
Manganese		3.17	mg/L	0.010	104	70	130			
Sample ID: R10100355-002D	3	Sample Matrix Spike Duplicate				Run: SUB-C139552			11/06/10 10:15	
Barium		0.518	mg/L	0.10	102	70	130	1.2	20	
Chromium		0.500	mg/L	0.050	100	70	130	3.7	20	
Manganese		3.06	mg/L	0.010	100	70	130	3.4	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: SUB-C139733	
Sample ID: CRI	4	CRDL Standard for ICP							11/10/10 12:03	
Calcium		0.54	mg/L	0.50	109	50	150			
Magnesium		0.51	mg/L	0.50	102	50	150			
Potassium		0.54	mg/L	0.50	107	50	150			
Sodium		0.58	mg/L	0.50	116	50	150			
Sample ID: ICSA	4	Interference Check Sample A							11/10/10 12:07	
Calcium		520	mg/L	0.50	104	80	120			
Magnesium		540	mg/L	0.50	108	80	120			
Potassium		0.0040	mg/L	0.50		0	0			
Sodium		0.11	mg/L	0.50		0	0			
Sample ID: ICSAB	4	Interference Check Sample AB							11/10/10 12:25	
Calcium		500	mg/L	0.50	101	80	120			
Magnesium		540	mg/L	0.50	109	80	120			
Potassium		0.0024	mg/L	0.50		0	0			
Sodium		-0.016	mg/L	0.50		0	0			
Method: E200.7									Batch: C_R139733	
Sample ID: QCS	4	Quality Control Sample				Run: SUB-C139733			11/10/10 11:43	
Calcium		49	mg/L	0.50	98	95	105			
Magnesium		48	mg/L	0.50	96	95	105			
Potassium		50	mg/L	0.80	99	95	105			
Sodium		50	mg/L	0.50	100	95	105			
Sample ID: MB-101110A	4	Method Blank				Run: SUB-C139733			11/10/10 12:46	
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101110A	4	Laboratory Fortified Blank				Run: SUB-C139733			11/10/10 12:50	
Calcium		48	mg/L	0.50	97	85	115			
Magnesium		48	mg/L	0.50	96	85	115			
Potassium		44	mg/L	0.50	87	85	115			
Sodium		49	mg/L	0.50	97	85	115			
Sample ID: C10110303-004BMS2	4	Sample Matrix Spike				Run: SUB-C139733			11/10/10 16:24	
Calcium		342	mg/L	1.1	93	70	130			
Magnesium		269	mg/L	1.0	94	70	130			
Potassium		235	mg/L	1.0	90	70	130			
Sodium		818	mg/L	1.4	103	70	130			
Sample ID: C10110303-004BMSD2	4	Sample Matrix Spike Duplicate				Run: SUB-C139733			11/10/10 16:29	
Calcium		345	mg/L	1.1	94	70	130	1.0	20	
Magnesium		276	mg/L	1.0	97	70	130	2.6	20	
Potassium		232	mg/L	1.0	89	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R139733
Sample ID: C10110303-004BMSD2	4	Sample Matrix Spike Duplicate				Run: SUB-C139733				11/10/10 16:29
Sodium		815	mg/L	1.4	103	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: SUB-C139312	
Sample ID: ICV	20	Initial Calibration Verification Standard							11/01/10 12:48	
Aluminum		0.0505	mg/L	0.0010	101	90	110			
Antimony		0.0533	mg/L	0.0010	107	90	110			
Arsenic		0.0492	mg/L	0.0010	98	90	110			
Barium		0.0506	mg/L	0.0010	101	90	110			
Beryllium		0.0511	mg/L	0.0010	102	90	110			
Cadmium		0.0507	mg/L	0.0010	101	90	110			
Chromium		0.0512	mg/L	0.0010	102	90	110			
Copper		0.0511	mg/L	0.0010	102	90	110			
Lead		0.0504	mg/L	0.0010	101	90	110			
Manganese		0.0503	mg/L	0.0010	101	90	110			
Mercury		0.00519	mg/L	0.0010	104	90	110			
Molybdenum		0.0517	mg/L	0.0010	103	90	110			
Nickel		0.0512	mg/L	0.0010	102	90	110			
Selenium		0.249	mg/L	0.0010	100	90	110			
Silver		0.0497	mg/L	0.0010	99	90	110			
Strontium		0.0499	mg/L	0.0010	100	90	110			
Thallium		0.0508	mg/L	0.0010	102	90	110			
Uranium		0.0502	mg/L	0.00030	100	90	110			
Vanadium		0.0516	mg/L	0.0010	103	90	110			
Zinc		0.0510	mg/L	0.0010	102	90	110			
Sample ID: ICSA	20	Interference Check Sample A							11/01/10 12:55	
Aluminum		0.999	mg/L	0.0010	100	80	120			
Antimony		0.000164	mg/L	0.0010		0	0			
Arsenic		6.32E-05	mg/L	0.0010		0	0			
Barium		1.80E-06	mg/L	0.0010		0	0			
Beryllium		2.80E-06	mg/L	0.0010		0	0			
Cadmium		8.70E-06	mg/L	0.0010		0	0			
Chromium		-0.000128	mg/L	0.0010		0	0			
Copper		1.61E-05	mg/L	0.0010		0	0			
Lead		4.70E-06	mg/L	0.0010		0	0			
Manganese		2.39E-05	mg/L	0.0010		0	0			
Mercury		0.000127	mg/L	0.0010		0	0			
Molybdenum		0.0203	mg/L	0.0010	101	80	120			
Nickel		2.22E-05	mg/L	0.0010		0	0			
Selenium		0.000130	mg/L	0.0010		0	0			
Silver		6.93E-05	mg/L	0.0010		0	0			
Strontium		5.51E-05	mg/L	0.0010		0	0			
Thallium		1.41E-05	mg/L	0.0010		0	0			
Uranium		4.04E-05	mg/L	0.00030		0	0			
Vanadium		2.42E-05	mg/L	0.0010		0	0			
Zinc		5.10E-06	mg/L	0.0010		0	0			
Sample ID: ICSAB	20	Interference Check Sample AB							11/01/10 13:02	
Aluminum		0.991	mg/L	0.0010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: SUB-C139312	
Sample ID: ICSAB	20	Interference Check Sample AB							11/01/10 13:02	
Antimony		1.97E-05	mg/L	0.0010		0	0			
Arsenic		0.00991	mg/L	0.0010	99	70	130			
Barium		1.66E-05	mg/L	0.0010		0	0			
Beryllium		2.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0100	mg/L	0.0010	101	70	130			
Chromium		0.00994	mg/L	0.0010	99	70	130			
Copper		0.00998	mg/L	0.0010	100	70	130			
Lead		2.70E-06	mg/L	0.0010		0	0			
Manganese		0.00992	mg/L	0.0010	99	70	130			
Mercury		2.84E-05	mg/L	0.0010		0	0			
Molybdenum		0.0199	mg/L	0.0010	100	70	130			
Nickel		0.00990	mg/L	0.0010	99	70	130			
Selenium		0.000407	mg/L	0.0010		0	0			
Silver		0.0101	mg/L	0.0010	101	70	130			
Strontium		4.97E-05	mg/L	0.0010		0	0			
Thallium		1.20E-06	mg/L	0.0010		0	0			
Uranium		1.24E-05	mg/L	0.00030		0	0			
Vanadium		-0.000197	mg/L	0.0010		0	0			
Zinc		0.00988	mg/L	0.0010	99	70	130			
Method: E200.8									Batch: C_R139312	
Sample ID: LRB	20	Method Blank				Run: SUB-C139312			11/01/10 13:43	
Aluminum		0.002	mg/L	0.0001						
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Barium		9E-05	mg/L	3E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		2E-05	mg/L	1E-05						
Chromium		ND	mg/L	4E-05						
Copper		0.001	mg/L	7E-05						
Lead		3E-05	mg/L	3E-05						
Manganese		8E-05	mg/L	5E-05						
Mercury		ND	mg/L	8E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		0.001	mg/L	0.0007						
Selenium		0.0003	mg/L	0.0002						
Silver		ND	mg/L	3E-05						
Strontium		0.0001	mg/L	3E-05						
Thallium		ND	mg/L	1E-05						
Uranium		2E-05	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		0.008	mg/L	0.0003						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R139312	
Sample ID: LFB	20	Laboratory Fortified Blank				Run: SUB-C139312			11/01/10 13:49	
Aluminum		0.0525	mg/L	0.0010	101	85	115			
Antimony		0.0524	mg/L	0.0010	105	85	115			
Arsenic		0.0533	mg/L	0.0010	107	85	115			
Barium		0.0532	mg/L	0.0010	106	85	115			
Beryllium		0.0518	mg/L	0.0010	104	85	115			
Cadmium		0.0530	mg/L	0.0010	106	85	115			
Chromium		0.0520	mg/L	0.0010	104	85	115			
Copper		0.0539	mg/L	0.0010	105	85	115			
Lead		0.0530	mg/L	0.0010	106	85	115			
Manganese		0.0520	mg/L	0.0010	104	85	115			
Mercury		0.00527	mg/L	0.0010	105	85	115			
Molybdenum		0.0532	mg/L	0.0010	106	85	115			
Nickel		0.0539	mg/L	0.0010	105	85	115			
Selenium		0.0538	mg/L	0.0010	107	85	115			
Silver		0.0209	mg/L	0.0010	104	85	115			
Strontium		0.0537	mg/L	0.0010	107	85	115			
Thallium		0.0532	mg/L	0.0010	106	85	115			
Uranium		0.0525	mg/L	0.00030	105	85	115			
Vanadium		0.0520	mg/L	0.0010	104	85	115			
Zinc		0.0557	mg/L	0.0010	96	85	115			
Sample ID: C10101139-001CMS4	20	Post Digestion Spike				Run: SUB-C139312			11/01/10 19:58	
Aluminum		0.0439	mg/L	0.0010	86	70	130			
Antimony		0.0627	mg/L	0.050	115	70	130			
Arsenic		0.101	mg/L	0.0010	105	70	130			
Barium		0.105	mg/L	0.10	109	70	130			
Beryllium		0.0418	mg/L	0.010	84	70	130			
Cadmium		0.0468	mg/L	0.010	93	70	130			
Chromium		0.0439	mg/L	0.0010	80	70	130			
Copper		0.0686	mg/L	0.010	95	70	130			
Lead		0.0561	mg/L	0.050	111	70	130			
Manganese		0.0737	mg/L	0.010	80	70	130			
Mercury		0.00542	mg/L	0.0010	108	70	130			
Molybdenum		0.451	mg/L	0.10		70	130			A
Nickel		0.0810	mg/L	0.050	98	70	130			
Selenium		0.177	mg/L	0.0010	97	70	130			
Silver		0.0154	mg/L	0.010	77	70	130			
Strontium		2.44	mg/L	0.10		70	130			A
Thallium		0.0553	mg/L	0.0010	109	70	130			
Uranium		1.03	mg/L	0.00030		70	130			A
Vanadium		0.813	mg/L	0.10		70	130			A
Zinc		0.0563	mg/L	0.010	88	70	130			
Sample ID: C10101139-001CMSD4	20	Post Digestion Spike Duplicate				Run: SUB-C139312			11/01/10 20:05	
Aluminum		0.0454	mg/L	0.0010	89	70	130	3.4	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R139312	
Sample ID: C10101139-001CMSD4	20	Post Digestion Spike Duplicate				Run: SUB-C139312			11/01/10 20:05	
Antimony		0.0622	mg/L	0.050	114	70	130	0.9	20	
Arsenic		0.0996	mg/L	0.0010	102	70	130	1.6	20	
Barium		0.106	mg/L	0.10	110	70	130	0.5	20	
Beryllium		0.0431	mg/L	0.010	86	70	130	2.9	20	
Cadmium		0.0472	mg/L	0.010	93	70	130	0.9	20	
Chromium		0.0448	mg/L	0.0010	82	70	130	2.1	20	
Copper		0.0679	mg/L	0.010	94	70	130	1.0	20	
Lead		0.0560	mg/L	0.050	111	70	130	0.3	20	
Manganese		0.0757	mg/L	0.010	84	70	130	2.7	20	
Mercury		0.00554	mg/L	0.0010	111	70	130	2.1	20	
Molybdenum		0.452	mg/L	0.10		70	130	0.3	20	A
Nickel		0.0799	mg/L	0.050	96	70	130	1.3	20	
Selenium		0.173	mg/L	0.0010	89	70	130	2.2	20	
Silver		0.0151	mg/L	0.010	76	70	130	1.4	20	
Strontium		2.44	mg/L	0.10		70	130	0.1	20	A
Thallium		0.0559	mg/L	0.0010	110	70	130	1.0	20	
Uranium		1.02	mg/L	0.00030		70	130	1.2	20	A
Vanadium		0.839	mg/L	0.10		70	130	3.1	20	A
Zinc		0.0559	mg/L	0.010	88	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28033
Sample ID: MB-28033	15	Method Blank				Run: SUB-C139366				11/02/10 21:10
Antimony		ND	mg/L	0.0003						
Arsenic		0.0008	mg/L	5E-05						
Beryllium		ND	mg/L	3E-05						
Boron		0.009	mg/L	0.003						
Cadmium		ND	mg/L	4E-05						
Copper		0.001	mg/L	5E-05						
Iron		0.002	mg/L	0.001						
Lead		9E-05	mg/L	5E-05						
Molybdenum		0.0005	mg/L	0.00010						
Nickel		0.0001	mg/L	4E-05						
Selenium		0.0003	mg/L	3E-05						
Silver		0.0001	mg/L	4E-05						
Strontium		ND	mg/L	6E-05						
Thallium		0.001	mg/L	0.0001						
Zinc		0.002	mg/L	0.001						
Sample ID: LCS3-28033	15	Laboratory Control Sample				Run: SUB-C139366				11/02/10 21:17
Antimony		0.616	mg/L	0.050	123	85	115			S
Arsenic		0.513	mg/L	0.0010	102	85	115			
Beryllium		0.240	mg/L	0.010	96	85	115			
Boron		0.440	mg/L	0.10	86	85	115			
Cadmium		0.275	mg/L	0.010	110	85	115			
Copper		0.471	mg/L	0.010	94	85	115			
Iron		2.14	mg/L	0.030	86	85	115			
Lead		0.517	mg/L	0.050	103	85	115			
Molybdenum		0.462	mg/L	0.10	92	85	115			
Nickel		0.474	mg/L	0.050	95	85	115			
Selenium		0.562	mg/L	0.0010	112	85	115			
Silver		0.0492	mg/L	0.010	98	85	115			
Strontium		0.447	mg/L	0.10	89	85	115			
Thallium		0.501	mg/L	0.10	100	85	115			
Zinc		0.515	mg/L	0.010	103	85	115			
Sample ID: R10100355-002D	15	Sample Matrix Spike				Run: SUB-C139366				11/02/10 23:55
Antimony		0.615	mg/L	0.050	123	70	130			
Arsenic		0.506	mg/L	0.0010	101	70	130			
Beryllium		0.216	mg/L	0.010	87	70	130			
Boron		0.454	mg/L	0.10	78	70	130			
Cadmium		0.262	mg/L	0.010	105	70	130			
Copper		0.457	mg/L	0.010	91	70	130			
Iron		2.23	mg/L	0.030	87	70	130			
Lead		0.528	mg/L	0.050	106	70	130			
Molybdenum		0.481	mg/L	0.10	96	70	130			
Nickel		0.461	mg/L	0.050	92	70	130			
Selenium		0.534	mg/L	0.0010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28033
Sample ID: R10100355-002D	15	Sample Matrix Spike				Run: SUB-C139366				11/02/10 23:55
Silver		0.0471	mg/L	0.010	94	70	130			
Strontium		2.48	mg/L	0.10	105	70	130			
Thallium		0.505	mg/L	0.10	101	70	130			
Zinc		0.464	mg/L	0.010	92	70	130			
Sample ID: R10100355-002D	15	Sample Matrix Spike Duplicate				Run: SUB-C139366				11/03/10 00:02
Antimony		0.537	mg/L	0.050	107	70	130	14	20	
Arsenic		0.507	mg/L	0.0010	101	70	130	0.2	20	
Beryllium		0.216	mg/L	0.010	86	70	130	0.1	20	
Boron		0.456	mg/L	0.10	79	70	130	0.6	20	
Cadmium		0.254	mg/L	0.010	101	70	130	3.1	20	
Copper		0.468	mg/L	0.010	93	70	130	2.4	20	
Iron		2.21	mg/L	0.030	86	70	130	0.8	20	
Lead		0.513	mg/L	0.050	103	70	130	2.8	20	
Molybdenum		0.418	mg/L	0.10	83	70	130	14	20	
Nickel		0.463	mg/L	0.050	92	70	130	0.4	20	
Selenium		0.532	mg/L	0.0010	106	70	130	0.5	20	
Silver		0.0464	mg/L	0.010	93	70	130	1.4	20	
Strontium		2.42	mg/L	0.10	94	70	130	2.2	20	
Thallium		0.493	mg/L	0.10	99	70	130	2.4	20	
Zinc		0.465	mg/L	0.010	93	70	130	0.1	20	
Method: E200.8										Analytical Run: SUB-C139573
Sample ID: ICV		Initial Calibration Verification Standard								11/05/10 12:23
Uranium		0.0498	mg/L	0.00030	100	90	110			
Sample ID: ICSA		Interference Check Sample A								11/05/10 12:30
Uranium		3.56E-05	mg/L	0.00030		0	0			
Sample ID: ICSAB		Interference Check Sample AB								11/05/10 12:37
Uranium		8.10E-06	mg/L	0.00030		0	0			
Method: E200.8										Batch: C_28033
Sample ID: MB-28033		Method Blank				Run: SUB-C139573				11/05/10 23:14
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-28033		Laboratory Control Sample				Run: SUB-C139573				11/05/10 23:21
Uranium		0.566	mg/L	0.00030	113	85	115			
Sample ID: R10100355-002D		Sample Matrix Spike				Run: SUB-C139573				11/06/10 00:29
Uranium		0.597	mg/L	0.00030	118	70	130			
Sample ID: R10100355-002D		Sample Matrix Spike Duplicate				Run: SUB-C139573				11/06/10 00:35
Uranium		0.582	mg/L	0.00030	115	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R139687A
Sample ID: C10110303-019BMS4	4	Post Digestion Spike				Run: SUB-C139687				11/10/10 02:22
Boron		0.596	mg/L	0.10		70	130			A
Iron		1.40	mg/L	0.030	111	70	130			
Silicon		7.79	mg/L	0.10		70	130			A
Thorium 232		0.0542	mg/L	0.0010	108	70	130			
Sample ID: C10110303-019BMSD4	4	Post Digestion Spike Duplicate				Run: SUB-C139687				11/10/10 02:29
Boron		0.598	mg/L	0.10		70	130	0.4	20	A
Iron		1.42	mg/L	0.030	113	70	130	1.5	20	
Silicon		7.84	mg/L	0.10		70	130	0.6	20	A
Thorium 232		0.0541	mg/L	0.0010	108	70	130	0.2	20	
Sample ID: LRB	4	Method Blank				Run: SUB-C139687				11/09/10 14:18
Silicon		ND	mg/L	0.0005						
Boron		-0.001	mg/L							
Iron		ND	mg/L	0.0001						
Thorium 232		ND	mg/L	3E-05						
Sample ID: LFB	4	Laboratory Fortified Blank				Run: SUB-C139687				11/09/10 14:25
Silicon		0.579	mg/L	0.0050	111	85	115			
Boron		0.0529	mg/L	0.0010	109	85	115			
Iron		1.34	mg/L	0.012	108	85	115			
Thorium 232		0.0521	mg/L	0.0010	104	85	115			
Method: E200.8										Analytical Run: SUB-C140426
Sample ID: ICV		Initial Calibration Verification Standard								11/30/10 11:59
Uranium		0.0514	mg/L	0.00030	103	90	110			
Method: E200.8										Batch: C_28164
Sample ID: MB-28164		Method Blank				Run: SUB-C140426				11/30/10 17:49
Uranium		ND	mg/L	6E-05						
Sample ID: LCS2-28164		Laboratory Control Sample				Run: SUB-C140426				11/30/10 17:53
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: R10100355-002I		Post Digestion Spike				Run: SUB-C140426				11/30/10 18:26
Uranium		0.0137	mg/L	0.00030	104	70	130			
Sample ID: R10100355-002I		Post Digestion Spike Duplicate				Run: SUB-C140426				11/30/10 18:30
Uranium		0.0133	mg/L	0.00030	101	70	130	3.0	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B156309	
Sample ID: QCS		Initial Calibration Verification Standard							10/28/10 16:00	
Mercury		0.0020	mg/L	0.00020	101	90	110			
Method: E245.1									Batch: B_50118	
Sample ID: MB-50118		Method Blank				Run: SUB-B156309			10/28/10 16:10	
Mercury		4E-05	mg/L	1E-05						
Sample ID: LCS-50118		Laboratory Control Sample				Run: SUB-B156309			10/28/10 16:11	
Mercury		0.0018	mg/L	0.00020	86	85	115			
Sample ID: B10102325-001BMS		Sample Matrix Spike				Run: SUB-B156309			10/28/10 16:56	
Mercury		0.0019	mg/L	0.00010	95	70	130			
Sample ID: B10102325-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B156309			10/28/10 16:58	
Mercury		0.0019	mg/L	0.00010	95	70	130	0.0	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R48774
Sample ID: LFB102610-14	5	Laboratory Fortified Blank				Run: DIONEX_101026A				10/26/10 21:12
Chloride		39.4	mg/L	1.00	99	90	110			
Fluoride		4.08	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N		3.98	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		4.05	mg/L	0.10	101	90	110			
Sulfate		39.2	mg/L	1.0	98	90	110			
Sample ID: R10100355-001AMS	5	Sample Matrix Spike				Run: DIONEX_101026A				10/26/10 21:48
Chloride		802	mg/L	20	94	90	110			
Fluoride		82.3	mg/L	2.0	99	90	110			
Nitrogen, Nitrate as N		80.3	mg/L	2.0	100	90	110			
Nitrogen, Nitrite as N		81.8	mg/L	2.0	102	90	110			
Sulfate		1290	mg/L	20	96	90	110			
Sample ID: R10100355-001AMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_101026A				10/26/10 22:05
Chloride		794	mg/L	20	93	90	110	1.0	10	
Fluoride		81.5	mg/L	2.0	98	90	110	1.1	10	
Nitrogen, Nitrate as N		79.5	mg/L	2.0	99	90	110	0.9	10	
Nitrogen, Nitrite as N		80.8	mg/L	2.0	101	90	110	1.2	10	
Sulfate		1280	mg/L	20	95	90	110	0.6	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-1022	
Sample ID: MB-GrAB-1022	6	Method Blank			Run: SUB-C141279				12/27/10 23:05	
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1022		Laboratory Control Sample			Run: SUB-C141279				12/27/10 23:05	
Gross Alpha		110	pCi/L		107	70	130			
Sample ID: Cs137-GrAB-1022		Laboratory Control Sample			Run: SUB-C141279				12/27/10 23:05	
Gross Beta		76	pCi/L		88	70	130			
Sample ID: C10120494-001FDUP	6	Sample Duplicate			Run: SUB-C141279				12/27/10 23:05	
Gross Alpha		-7.4	pCi/L					18	79	U
Gross Alpha precision (±)		2.3	pCi/L							
Gross Alpha MDC		3.0	pCi/L							
Gross Beta		2.0	pCi/L					130	266.4	
Gross Beta precision (±)		1.9	pCi/L							
Gross Beta MDC		1.9	pCi/L							
Sample ID: C10120742-001DMS		Sample Matrix Spike			Run: SUB-C141279				12/28/10 11:23	
Gross Alpha		230	pCi/L		134	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: C10120742-001DMSD		Sample Matrix Spike Duplicate			Run: SUB-C141279				12/28/10 11:23	
Gross Alpha		230	pCi/L		137	70	130	1.5	16.3	S
Sample ID: C10120742-001DMS		Sample Matrix Spike			Run: SUB-C141279				12/28/10 11:23	
Gross Beta		110	pCi/L		95	70	130			
Sample ID: C10120742-001DMSD		Sample Matrix Spike Duplicate			Run: SUB-C141279				12/28/10 11:23	
Gross Beta		120	pCi/L		103	70	130	6.1	14.9	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc **Report Date:** 12/29/10

Project: Dewey Groundwater Sampling **Work Order:** R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R139341
Sample ID: LCS-R139341	3 Laboratory Control Sample					Run: SUB-C139341				11/01/10 10:00
Americium 241		700	pCi/L	20	87	70	130			
Cesium 137		980	pCi/L	20	97	70	130			
Potassium 40		6600	pCi/L	20	98	70	130			
Sample ID: MB-R139341	23 Method Blank					Run: SUB-C139341				11/01/10 10:00
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		500	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10100355-002H	23 Sample Duplicate					Run: SUB-C139341				11/01/10 10:00
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R139341
Sample ID: R10100355-002H	23 Sample Duplicate					Run: SUB-C139341				11/01/10 10:00
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		470	pCi/L	20				5.1	30	
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		470	pCi/L					5.1	30	
Gross Gamma precision (±)		130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-4959
Sample ID: C10101041-008DMS		Sample Matrix Spike				Run: SUB-C139874				11/11/10 11:45
Radium 226		18.6	pCi/L		115	70	130			
Sample ID: C10101041-008DMSD		Sample Matrix Spike Duplicate				Run: SUB-C139874				11/11/10 11:45
Radium 226		20.1	pCi/L		125	70	130	7.7	24.6	
Sample ID: MB-RA226-4959	3	Method Blank				Run: SUB-C139874				11/11/10 13:18
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4959		Laboratory Control Sample				Run: SUB-C139874				11/11/10 13:18
Radium 226		11	pCi/L		141	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.										
Method: E903.0										Batch: C_R140270
Sample ID: R10100355-001I		Sample Matrix Spike				Run: SUB-C140270				11/23/10 01:20
Radium 226		19	pCi/L		98	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike Duplicate				Run: SUB-C140270				11/23/10 01:20
Radium 226		22	pCi/L		113	70	130	14	21.9	
Sample ID: LCS-28164		Laboratory Control Sample				Run: SUB-C140270				11/23/10 01:21
Radium 226		18	pCi/L		116	70	130			
Sample ID: MB-28164	3	Method Blank				Run: SUB-C140270				11/23/10 01:21
Radium 226		0.4	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_28164
Sample ID: R10100355-002I		Sample Matrix Spike				Run: SUB-C140085				11/16/10 16:13
Thorium 230		13	pCi/L		105	70	130			
Sample ID: R10100355-002I		Sample Matrix Spike Duplicate				Run: SUB-C140085				11/16/10 16:13
Thorium 230		10	pCi/L		83	70	130	25	46.6	
Sample ID: LCS-28164		Laboratory Control Sample				Run: SUB-C140085				11/16/10 16:13
Thorium 230		5.6	pCi/L		116	70	130			
Sample ID: MB-28164	3	Method Blank				Run: SUB-C140085				11/16/10 16:13
Thorium 230		-0.10	pCi/L							U
Thorium 230 MDC		0.3	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Method: E907.0										Batch: C_RA-TH-ISO-1285
Sample ID: LCS-RA-TH-ISO-1285		Laboratory Control Sample				Run: SUB-C140086				11/16/10 16:16
Thorium 230		5.4	pCi/L		94	70	130			
Sample ID: R10100355-002H		Sample Matrix Spike				Run: SUB-C140086				11/16/10 16:16
Thorium 230		13	pCi/L		100	70	130			
Sample ID: R10100355-002H		Sample Matrix Spike Duplicate				Run: SUB-C140086				11/16/10 16:16
Thorium 230		13	pCi/L		100	70	130	0.0	40.8	
Sample ID: MB-RA-TH-ISO-1285	3	Method Blank				Run: SUB-C140086				11/17/10 15:57
Thorium 230		0.01	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.05	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Report Date: 12/29/10
Project: Dewey Groundwater Sampling
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Analytical Run: SUB-T37761	
Sample ID: STD-PB-210-0038	3	Continuing Calibration Verification Standard							11/19/10 19:53	
Lead 210		32	pCi/L			70	130	0.0	30	
Lead 210 precision (±)		1.3	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Method: E909.0M									Batch: T_PB-210-0038	
Sample ID: MB-PB-210-0038	3	Method Blank				Run: SUB-T37761			11/19/10 17:42	
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: LCS-PB-210-0038		Laboratory Control Sample				Run: SUB-T37761			11/19/10 22:05	
Lead 210		53	pCi/L		97	70	130			
Sample ID: T10110006-001BMS		Sample Matrix Spike				Run: SUB-T37761			11/20/10 02:28	
Lead 210		100	pCi/L		93	70	130			
Sample ID: T10110006-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-T37761			11/20/10 04:39	
Lead 210		95	pCi/L		88	70	130	6.3	15.9	
Method: E909.0M									Batch: T_PB-210-0055	
Sample ID: MB-12635	3	Method Blank				Run: SUB-T38122			12/16/10 16:28	
Lead 210		1	pCi/L							U
Lead 210 precision (±)		9	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-12635		Laboratory Control Sample				Run: SUB-T38122			12/16/10 20:51	
Lead 210		440	pCi/L		81	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike				Run: SUB-T38122			12/17/10 01:14	
Lead 210		480	pCi/L		87	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike Duplicate				Run: SUB-T38122			12/17/10 03:25	
Lead 210		460	pCi/L		85	70	130	2.7	16.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0325
Sample ID: C10100987-001CMS		Sample Matrix Spike				Run: SUB-C139964				11/11/10 08:53
Polonium 210		34	pCi/L		105	70	130			
Sample ID: C10100987-001CMSD		Sample Matrix Spike Duplicate				Run: SUB-C139964				11/11/10 08:53
Polonium 210		34	pCi/L		106	70	130	1.0	56.3	
Sample ID: MB-PO210-0325	3	Method Blank				Run: SUB-C139964				11/11/10 08:53
Polonium 210		0.09	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Sample ID: LCS-PO210-0325		Laboratory Control Sample				Run: SUB-C139964				11/11/10 08:53
Polonium 210		15	pCi/L		90	70	130			
Method: E912.0										Batch: C_PO210-0327
Sample ID: C10110253-006DMS		Sample Matrix Spike				Run: SUB-C140163				11/18/10 13:12
Polonium 210		31	pCi/L		96	70	130			
Sample ID: C10110253-006DMSD		Sample Matrix Spike Duplicate				Run: SUB-C140163				11/18/10 13:12
Polonium 210		32	pCi/L		98	70	130	2.3	59	
Sample ID: LCS-PO210-0327		Laboratory Control Sample				Run: SUB-C140163				11/18/10 13:12
Polonium 210		15	pCi/L		90	70	130			
Sample ID: MB-PO210-0327	3	Method Blank				Run: SUB-C140163				11/18/10 13:12
Polonium 210		0.08	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: Powertech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Scott Env. / Powertech	Contact Name: Allen Scott Phone/Fax: 673-4859	Email:	Sampler: (Please Print)
Invoice Address: Powertech, Inc. USA	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

ANALYSIS REQUESTED

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

As per Quote

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.8 °C

On Ice: (Y) N

Custody Seal
On Bottle Y N
On Cooler Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
705	1 DB-09-21-01	10-25-10		Water
706	2 DB-09-21-02	10-25-10		"
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			

LABORATORY USE ONLY

R10100355-001
002

Custody Record MUST be Signed

Relinquished by (print): Allen Scott	Date/Time: 10-26-10 8:58	Signature:	Received by (print):	Date/Time:	Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Steve Froiland	Date/Time: 10-26-10 8:58	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.

ANALYTICAL SUMMARY REPORT

February 14, 2011

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10110179

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 3 samples for Powertech USA Inc on 11/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10110179-001	DB-09-21-01	11/15/10 0:00	11/15/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10110179-002	DB-09-21-02	11/15/10 0:00	11/15/10	Aqueous	Same As Above
R10110179-003	DB-09-21-02 Dup	11/15/10 0:00	11/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by
Linda Larson
Date: 2011.02.14 13:37:50 -07:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10110179

Revised Date: 02/14/11
Report Date: 01/05/11

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.
Comments imported for SUBBED Workorder: C10110686
GROSS GAMMA ANALYSIS
The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.
End of comments imported for SUBBED Workorder: C10110686
Comments imported for SUBBED Workorder: T10110102
Prep Comments for Sample R10110179-001I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.
Prep Comments for Sample R10110179-002I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.
Prep Comments for Sample R10110179-003I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.
End of comments imported for SUBBED Workorder: T10110102

Revised report issued for PB210 recheck on DB09-21-02 sample.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-001
Client Sample ID: DB-09-21-01

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	11/19/10 16:20/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/19/10 16:20/hv
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	11/19/10 16:20/hv
Calcium	91.4	mg/L		0.5		2	E200.7	11/30/10 17:46/eli-c
Chloride	8	mg/L		1		1	E300.0	11/16/10 22:55/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/16/10 22:55/jmh
Magnesium	33.4	mg/L		0.5		2	E200.7	11/30/10 17:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/18/10 15:43/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/16/10 22:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/16/10 22:55/jmh
Potassium	11.8	mg/L		0.5		2	E200.7	11/30/10 17:46/eli-c
Sodium	157	mg/L	D	0.6		2	E200.7	11/30/10 17:46/eli-c
Sulfate	548	mg/L	D	10		10	E300.0	11/16/10 22:02/jmh
Silica	8.8	mg/L		0.2		1	E200.8	11/30/10 03:30/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	11/22/10 14:56/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	11/22/10 18:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	11/19/10 14:10/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D	10		1	A2540 C	11/22/10 11:21/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/30/10 03:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 03:30/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 03:30/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 03:30/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/30/10 03:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 03:30/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	11/30/10 03:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/30/10 03:30/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 03:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/22/10 13:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 03:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/30/10 03:30/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-001
Client Sample ID: DB-09-21-01

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 03:30/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 03:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:24/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.7	pCi/L	U			1	E900.0	12/02/10 21:28/eli-ca
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Alpha MDC	6.0	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta	10.7	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta MDC	5.3	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Lead 210	1	pCi/L	U			1	E909.0M	12/15/10 23:53/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/15/10 23:53/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	12/15/10 23:53/eli-cs
Polonium 210	-0.012	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.52	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.0	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	650	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.3	pCi/L	U			1	E909.0M	12/30/10 01:16/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 01:16/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 01:16/eli-cs
Polonium 210	0.078	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

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

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc
Report Date: 01/05/11

Project: Dewey Groundwater Sampling
Collection Date: 11/15/10

Lab ID: R10110179-001
Date Received: 11/15/10

Client Sample ID: DB-09-21-01
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.62	pCi/L				1	E912.0	12/01/10 09:34/eli-ca
Radium 226	0.2	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.2	pCi/L	U			1	E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	532	pCi/L		100		1	D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/30/10 14:43/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/30/10 14:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 14:43/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/30/10 14:43/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 14:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 14:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 14:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 14:43/eli-c
Iron	0.26	mg/L		0.03		1	E200.8	11/30/10 14:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 14:43/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	11/30/10 14:43/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/18/10 15:10/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 14:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 14:43/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/30/10 14:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 14:43/eli-c
Strontium	2.6	mg/L		0.1		1	E200.8	11/30/10 14:43/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/30/10 14:43/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	11/30/10 14:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 14:43/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.85	%				1	A1030 E	12/31/10 00:00/lkl
Anions	15.0	meq/L				1	A1030 E	12/31/10 00:00/lkl
Cations	14.4	meq/L				1	A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	974	mg/L				1	A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	12/31/10 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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	11/19/10 16:24/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/19/10 16:24/hv
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	11/19/10 16:24/hv
Calcium	163	mg/L		0.5		2	E200.7	11/30/10 17:50/eli-c
Chloride	10	mg/L		1		1	E300.0	11/16/10 23:30/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	11/16/10 23:30/jmh
Magnesium	45.2	mg/L		0.5		2	E200.7	11/30/10 17:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/18/10 15:47/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/16/10 23:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/16/10 23:30/jmh
Potassium	12.0	mg/L		0.5		2	E200.7	11/30/10 17:50/eli-c
Sodium	125	mg/L	D	0.6		2	E200.7	11/30/10 17:50/eli-c
Sulfate	689	mg/L	D	10		10	E300.0	11/16/10 23:12/jmh
Silica	8.3	mg/L		0.2		1	E200.8	11/30/10 03:37/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1470	umhos/cm		5.0		1	A2510 B	11/22/10 14:58/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	11/22/10 18:00/jmh
pH	7.35	s.u.		0.01		1	A4500-H B	11/19/10 14:14/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	11/22/10 11:21/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/30/10 03:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 03:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 03:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 03:37/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/30/10 03:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 03:37/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8	11/30/10 03:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/30/10 03:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 03:37/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/22/10 13:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 03:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/30/10 03:37/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0082	mg/L		0.0003		1	E200.8	11/30/10 03:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 03:37/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:48/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	24.5	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha precision (±)	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha MDC	7.7	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta	21.1	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta MDC	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Lead 210	-0.08	pCi/L	U			1	E909.0	02/10/11 14:52/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0	02/10/11 14:52/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0	02/10/11 14:52/eli-cs
Polonium 210	-0.011	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.53	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.4	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	490	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.5	pCi/L	U			1	E909.0M	12/30/10 07:50/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 07:50/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 07:50/eli-cs
Polonium 210	-0.032	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.25	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.66	pCi/L				1	E912.0	12/01/10 09:34/eli-ca
Radium 226	0.1	pCi/L	U			1	E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.2	pCi/L	U			1	E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	683	pCi/L		100		1	D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/30/10 14:50/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/30/10 14:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 14:50/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/30/10 14:50/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 14:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 14:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 14:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 14:50/eli-c
Iron	0.04	mg/L		0.03		1	E200.8	11/30/10 14:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 14:50/eli-c
Manganese	0.59	mg/L		0.01		1	E200.8	11/30/10 14:50/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/18/10 15:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 14:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 14:50/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/30/10 14:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 14:50/eli-c
Strontium	2.3	mg/L		0.1		1	E200.8	11/30/10 14:50/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/30/10 14:50/eli-c
Uranium	0.0098	mg/L		0.0003		1	E200.8	11/30/10 14:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 14:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.58	%				1	A1030 E	12/31/10 00:00/lkl
Anions	18.6	meq/L				1	A1030 E	12/31/10 00:00/lkl
Cations	17.6	meq/L				1	A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	1180	mg/L				1	A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	12/31/10 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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-003
Client Sample ID: DB-09-21-02 Dup

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	192	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Calcium	163	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Chloride	10	mg/L		1		1	E300.0	11/17/10 00:05/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Magnesium	46.4	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/18/10 15:48/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Potassium	12.0	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Sodium	123	mg/L	D	0.6		2	E200.7	11/30/10 17:54/eli-c
Sulfate	691	mg/L	D	10		10	E300.0	11/16/10 23:48/jmh
Silica	8.5	mg/L		0.2		1	E200.8	11/30/10 04:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1470	umhos/cm		5.0		1	A2510 B	11/22/10 15:00/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	11/22/10 18:00/jmh
pH	7.35	s.u.		0.01		1	A4500-H B	11/19/10 14:15/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	11/22/10 11:22/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/30/10 17:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 04:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/30/10 04:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 04:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/22/10 13:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-003
Client Sample ID: DB-09-21-02 Dup

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	11/30/10 04:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:50/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.3	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha MDC	7.7	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta	26.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta MDC	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Lead 210	0.5	pCi/L	U			1	E909.0M	12/16/10 04:16/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/16/10 04:16/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	12/16/10 04:16/eli-cs
Polonium 210	-0.024	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.23	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.3	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	0.004	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	550	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	12/30/10 10:01/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 10:01/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 10:01/eli-cs
Polonium 210	0.070	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10110179-003
Client Sample ID: DB-09-21-02 Dup

Revised Date: 02/14/11
Report Date: 01/05/11
Collection Date: 11/15/10
Date Received: 11/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.70	pCi/L				1	E912.0	12/01/10 09:34/eli-ca
Radium 226	0.1	pCi/L	U			1	E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	666	pCi/L		100		1	D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/30/10 14:57/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 14:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 14:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
Iron	0.09	mg/L		0.03		1	E200.8	11/30/10 14:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/18/10 15:13/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 14:57/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 14:57/eli-c
Strontium	2.2	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	11/30/10 14:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.35	%				1	A1030 E	12/31/10 00:00/lkl
Anions	18.5	meq/L				1	A1030 E	12/31/10 00:00/lkl
Cations	17.7	meq/L				1	A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	12/31/10 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

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 101119A-ALK-SEL-W	
Sample ID: LCS1_101119A	Laboratory Control Sample					Run: PH_COND1-R_101119A			11/19/10 15:29	
Alkalinity, Total as CaCO3		964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_101119A	Method Blank					Run: PH_COND1-R_101119A			11/19/10 15:35	
Alkalinity, Total as CaCO3		ND	mg/L	7						
Sample ID: R10110177-002AMS	Sample Matrix Spike					Run: PH_COND1-R_101119A			11/19/10 15:47	
Alkalinity, Total as CaCO3		310	mg/L	5.0	98	80	120			
Sample ID: R10110177-002AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101119A			11/19/10 15:53	
Alkalinity, Total as CaCO3		312	mg/L	5.0	99	80	120	0.6	10	
Sample ID: R10110212-004AMS	Sample Matrix Spike					Run: PH_COND1-R_101119A			11/19/10 17:01	
Alkalinity, Total as CaCO3		294	mg/L	5.0	96	80	120			
Sample ID: R10110212-004AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101119A			11/19/10 17:04	
Alkalinity, Total as CaCO3		296	mg/L	5.0	98	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 101122_1_COND-PROBE-W	
Sample ID: LCS1-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:35	
Conductivity @ 25 C		152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:37	
Conductivity @ 25 C		4970	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:41	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101122		Method Blank				Run: PH_COND2-R_101122A			11/22/10 14:43	
Conductivity @ 25 C		ND	umhos/cm	5						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101122A-SLDS-TDS-W	
Sample ID: LCS1_101122A		Laboratory Control Sample				Run: BAL-4-R_101122A			11/22/10 11:15	
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10	103	90	110			
Sample ID: MBLK1_101122A		Method Blank				Run: BAL-4-R_101122A			11/22/10 11:16	
Solids, Total Dissolved TDS @ 180 C		10	mg/L	3						
Sample ID: R10110212-001AMS		Sample Matrix Spike				Run: BAL-4-R_101122A			11/22/10 11:23	
Solids, Total Dissolved TDS @ 180 C		1500	mg/L	10	102	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 101122-ORP-ISE-W	
Sample ID: LCS		Laboratory Control Sample				Run: PH_COND1-R_101122B			11/22/10 18:00	
Oxidation-Reduction Potential		480	mV		101	95	105			
Sample ID: R10110179-003F		Sample Duplicate				Run: PH_COND1-R_101122B			11/22/10 18:00	
Oxidation-Reduction Potential		220	mV					0.2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_28290
Sample ID: MB-28290		Method Blank				Run: SUB-C140166				11/22/10 11:34
Selenium-IV		0.0005	mg/L	0.0003						
Sample ID: LCS-28290		Laboratory Control Sample				Run: SUB-C140166				11/22/10 11:39
Selenium-IV		0.047	mg/L	0.0010	94	90	110			
Sample ID: R10110179-001E		Sample Matrix Spike				Run: SUB-C140166				11/22/10 11:44
Selenium-IV		0.048	mg/L	0.0010	96	85	115			
Sample ID: R10110179-001E		Sample Matrix Spike Duplicate				Run: SUB-C140166				11/22/10 11:46
Selenium-IV		0.047	mg/L	0.0010	93	85	115	3.2	10	
Method: A3114 B										Batch: C_28290
Sample ID: MB-28290		Method Blank				Run: SUB-C140171				11/22/10 13:05
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-28290		Laboratory Control Sample				Run: SUB-C140171				11/22/10 13:08
Selenium		0.046	mg/L	0.0010	92	90	110			
Sample ID: R10110179-001E		Sample Matrix Spike				Run: SUB-C140171				11/22/10 13:12
Selenium		0.052	mg/L	0.0010	103	85	115			
Sample ID: R10110179-001E		Sample Matrix Spike Duplicate				Run: SUB-C140171				11/22/10 13:15
Selenium		0.053	mg/L	0.0010	106	85	115	2.4	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B									Batch: 101119_2_PH-W	
Sample ID: LCS_pH-1_101119	Laboratory Control Sample					Run: PH_COND2-R_101119A			11/19/10 13:57	
pH		7.40	s.u.	0.010	100	98.55	101.45			
Sample ID: R10110179-001ADUP	Sample Duplicate					Run: PH_COND2-R_101119A			11/19/10 14:12	
pH		7.64	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-11-18_2_NH3_01	
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_101118A			11/18/10 13:36	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_101118A			11/18/10 13:37	
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	90	110			
Sample ID: R10110179-001BMS	Sample Matrix Spike					Run: TECHAA2-R_101118A			11/18/10 15:45	
Nitrogen, Ammonia as N		0.40	mg/L	0.10	110	80	120			
Sample ID: R10110179-001BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_101118A			11/18/10 15:46	
Nitrogen, Ammonia as N		0.40	mg/L	0.10	112	80	120	1.2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92										Batch: C_R140114
Sample ID: R10110179-003G	Sample Duplicate					Run: SUB-C140114				11/18/10 15:53
Radon 222		610	pCi/L	100				8.7	30	
Sample ID: MB-R140114	Method Blank					Run: SUB-C140114				11/18/10 15:53
Radon 222		30	pCi/L							U
Sample ID: LCS-R140114	Laboratory Control Sample					Run: SUB-C140114				11/18/10 15:53
Radon 222		301	pCi/L	100	89	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R140421
Sample ID: MB-101130A	5	Method Blank				Run: SUB-C140421				11/30/10 15:57
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101130A	5	Laboratory Fortified Blank				Run: SUB-C140421				11/30/10 16:01
Boron		0.96	mg/L	0.10	96	85	115			
Calcium		47	mg/L	0.50	94	85	115			
Magnesium		47	mg/L	0.50	94	85	115			
Potassium		43	mg/L	0.50	87	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10110416-001BMS2	5	Sample Matrix Spike				Run: SUB-C140421				11/30/10 16:57
Boron		4.68	mg/L	0.10	99	70	130			
Calcium		130	mg/L	1.0	95	70	130			
Magnesium		95.7	mg/L	1.0	93	70	130			
Potassium		109	mg/L	1.0	82	70	130			
Sodium		647	mg/L	1.0		70	130			A
Sample ID: C10110416-001BMSD2	5	Sample Matrix Spike Duplicate				Run: SUB-C140421				11/30/10 17:02
Boron		4.72	mg/L	0.10	101	70	130	0.8	20	
Calcium		131	mg/L	1.0	96	70	130	0.9	20	
Magnesium		97.0	mg/L	1.0	94	70	130	1.4	20	
Potassium		109	mg/L	1.0	83	70	130	0.6	20	
Sodium		656	mg/L	1.0		70	130	1.4	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R140353A
Sample ID: C10110505-007BMS4	19	Post Digestion Spike				Run: SUB-C140353				11/30/10 03:10
Aluminum		0.0715	mg/L	0.0010	96	70	130			
Arsenic		0.0546	mg/L	0.0010	108	70	130			
Barium		0.0625	mg/L	0.0010	103	70	130			
Boron		0.198	mg/L	0.10	78	70	130			
Cadmium		0.0495	mg/L	0.010	97	70	130			
Chromium		0.0519	mg/L	0.050	104	70	130			
Copper		0.0530	mg/L	0.010	99	70	130			
Iron		7.25	mg/L	0.030		70	130			A
Lead		0.0537	mg/L	0.050	107	70	130			
Manganese		4.99	mg/L	0.010		70	130			A
Mercury		0.00417	mg/L	0.0010	83	70	130			
Molybdenum		0.0597	mg/L	0.0010	102	70	130			
Nickel		0.0966	mg/L	0.050	99	70	130			
Silicon		5.68	mg/L	0.10		70	130			A
Silver		0.00186	mg/L	0.0010	9	70	130			S
Thorium 232		0.0561	mg/L	0.0010	111	70	130			
Uranium		0.0571	mg/L	0.00030	110	70	130			
Vanadium		0.0535	mg/L	0.0010	106	70	130			
Zinc		0.126	mg/L	0.010	94	70	130			
Sample ID: C10110505-007BMSD4	19	Post Digestion Spike Duplicate				Run: SUB-C140353				11/30/10 03:17
Aluminum		0.0708	mg/L	0.0010	94	70	130	1.0	20	
Arsenic		0.0552	mg/L	0.0010	109	70	130	1.1	20	
Barium		0.0643	mg/L	0.0010	107	70	130	2.8	20	
Boron		0.189	mg/L	0.10	60	70	130	4.6	20	S
Cadmium		0.0496	mg/L	0.010	98	70	130	0.2	20	
Chromium		0.0526	mg/L	0.050	105	70	130	1.2	20	
Copper		0.0537	mg/L	0.010	100	70	130	1.2	20	
Iron		7.24	mg/L	0.030		70	130	0.0	20	A
Lead		0.0540	mg/L	0.050	108	70	130	0.6	20	
Manganese		5.00	mg/L	0.010		70	130	0.2	20	A
Mercury		0.00451	mg/L	0.0010	90	70	130	7.7	20	
Molybdenum		0.0610	mg/L	0.0010	104	70	130	2.1	20	
Nickel		0.0979	mg/L	0.050	101	70	130	1.3	20	
Silicon		5.69	mg/L	0.10		70	130	0.1	20	A
Silver		0.00410	mg/L	0.0010	20	70	130	75	20	SR
Thorium 232		0.0569	mg/L	0.0010	113	70	130	1.4	20	
Uranium		0.0574	mg/L	0.00030	111	70	130	0.6	20	
Vanadium		0.0539	mg/L	0.0010	107	70	130	0.9	20	
Zinc		0.123	mg/L	0.010	89	70	130	2.0	20	
Sample ID: LRB	19	Method Blank				Run: SUB-C140353				11/29/10 19:01
Silicon		0.04	mg/L	0.0005						
Aluminum		0.004	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

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

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R140353A	
Sample ID: LRB	19	Method Blank				Run: SUB-C140353			11/29/10 19:01	
Barium		ND	mg/L	3E-05						
Boron		0.003	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.0002	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Mercury		5E-05	mg/L	2E-05						
Molybdenum		ND	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Thorium 232		6E-05	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.005	mg/L	0.0001						
Sample ID: LFB	20	Laboratory Fortified Blank				Run: SUB-C140353			11/29/10 19:08	
Silicon		0.573	mg/L	0.0050	102	85	115			
Aluminum		0.0524	mg/L	0.0010	97	85	115			
Arsenic		0.0519	mg/L	0.0010	104	85	115			
Barium		0.0526	mg/L	0.0010	105	85	115			
Boron		0.0518	mg/L	0.0010	98	85	115			
Cadmium		0.0524	mg/L	0.0010	105	85	115			
Chromium		0.0517	mg/L	0.0010	103	85	115			
Copper		0.0523	mg/L	0.0010	105	85	115			
Iron		1.30	mg/L	0.012	104	85	115			
Lead		0.0526	mg/L	0.0010	105	85	115			
Manganese		0.0525	mg/L	0.0010	105	85	115			
Mercury		0.00525	mg/L	0.0010	104	85	115			
Molybdenum		0.0502	mg/L	0.0010	100	85	115			
Nickel		0.0508	mg/L	0.0010	102	85	115			
Silver		0.0206	mg/L	0.0010	103	85	115			
Thorium 232		0.0516	mg/L	0.0010	103	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Vanadium		0.0510	mg/L	0.0010	102	85	115			
Zinc		0.0543	mg/L	0.0010	98	85	115			
Silica		1.23	mg/L	0.011	115	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28308
Sample ID: MB-28308	19	Method Blank				Run: SUB-C140415				11/30/10 13:28
Antimony		0.0010	mg/L	0.0003						
Arsenic		0.0004	mg/L	5E-05						
Barium		ND	mg/L	0.0002						
Beryllium		ND	mg/L	3E-05						
Boron		ND	mg/L	0.003						
Cadmium		8E-05	mg/L	4E-05						
Chromium		0.0003	mg/L	3E-05						
Copper		0.002	mg/L	5E-05						
Iron		ND	mg/L	0.001						
Lead		8E-05	mg/L	5E-05						
Manganese		0.0002	mg/L	2E-05						
Molybdenum		0.0002	mg/L	0.00010						
Nickel		ND	mg/L	4E-05						
Selenium		0.0001	mg/L	3E-05						
Silver		0.0003	mg/L	4E-05						
Strontium		ND	mg/L	6E-05						
Thallium		0.0007	mg/L	0.0001						
Uranium		ND	mg/L	4E-05						
Zinc		0.001	mg/L	0.001						
Sample ID: LCS3-28308	19	Laboratory Control Sample				Run: SUB-C140415				11/30/10 13:35
Antimony		0.602	mg/L	0.050	120	85	115			S
Arsenic		0.497	mg/L	0.0010	99	85	115			
Barium		0.526	mg/L	0.10	105	85	115			
Beryllium		0.258	mg/L	0.010	103	85	115			
Boron		0.520	mg/L	0.10	104	85	115			
Cadmium		0.275	mg/L	0.010	110	85	115			
Chromium		0.483	mg/L	0.050	97	85	115			
Copper		0.497	mg/L	0.010	99	85	115			
Iron		2.51	mg/L	0.030	100	85	115			
Lead		0.518	mg/L	0.050	104	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.545	mg/L	0.10	109	85	115			
Nickel		0.489	mg/L	0.050	98	85	115			
Selenium		0.530	mg/L	0.0010	106	85	115			
Silver		0.0536	mg/L	0.010	107	85	115			
Strontium		0.492	mg/L	0.10	98	85	115			
Thallium		0.504	mg/L	0.10	101	85	115			
Uranium		0.537	mg/L	0.00030	107	85	115			
Zinc		0.521	mg/L	0.010	104	85	115			

- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.

Sample ID: C10110772-010BMS3	19	Sample Matrix Spike				Run: SUB-C140415				11/30/10 14:23
Antimony		0.560	mg/L	0.050	112	70	130			
Arsenic		0.536	mg/L	0.0010	90	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28308
Sample ID: C10110772-010BMS3	19	Sample Matrix Spike				Run: SUB-C140415				11/30/10 14:23
Barium		0.511	mg/L	0.10	98	70	130			
Beryllium		0.204	mg/L	0.010	82	70	130			
Boron		0.951	mg/L	0.10	81	70	130			
Cadmium		0.241	mg/L	0.010	95	70	130			
Chromium		0.446	mg/L	0.050	89	70	130			
Copper		0.437	mg/L	0.010	86	70	130			
Iron		2.32	mg/L	0.030	92	70	130			
Lead		0.484	mg/L	0.050	97	70	130			
Manganese		2.45	mg/L	0.010	89	70	130			
Molybdenum		3.39	mg/L	0.10		70	130			A
Nickel		0.431	mg/L	0.050	86	70	130			
Selenium		0.447	mg/L	0.0010	89	70	130			
Silver		0.0455	mg/L	0.010	90	70	130			
Strontium		2.21	mg/L	0.10	73	70	130			
Thallium		0.468	mg/L	0.10	93	70	130			
Uranium		2.56	mg/L	0.00030		70	130			A
Zinc		0.453	mg/L	0.010	88	70	130			
Sample ID: C10110772-010BMSD3	19	Sample Matrix Spike Duplicate				Run: SUB-C140415				11/30/10 14:30
Antimony		0.596	mg/L	0.050	119	70	130	6.2	20	
Arsenic		0.544	mg/L	0.0010	92	70	130	1.5	20	
Barium		0.536	mg/L	0.10	103	70	130	4.8	20	
Beryllium		0.217	mg/L	0.010	87	70	130	5.8	20	
Boron		0.987	mg/L	0.10	88	70	130	3.7	20	
Cadmium		0.253	mg/L	0.010	100	70	130	4.9	20	
Chromium		0.450	mg/L	0.050	90	70	130	1.0	20	
Copper		0.439	mg/L	0.010	87	70	130	0.4	20	
Iron		2.46	mg/L	0.030	97	70	130	5.6	20	
Lead		0.508	mg/L	0.050	102	70	130	4.8	20	
Manganese		2.54	mg/L	0.010	93	70	130	3.4	20	
Molybdenum		3.47	mg/L	0.10		70	130	2.4	20	A
Nickel		0.432	mg/L	0.050	86	70	130	0.1	20	
Selenium		0.478	mg/L	0.0010	95	70	130	6.7	20	
Silver		0.0481	mg/L	0.010	95	70	130	5.7	20	
Strontium		2.26	mg/L	0.10	84	70	130	2.4	20	
Thallium		0.491	mg/L	0.10	98	70	130	4.8	20	
Uranium		2.67	mg/L	0.00030		70	130	4.0	20	A
Zinc		0.459	mg/L	0.010	89	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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Analytical Run: SUB-C140426	
Sample ID: ICV		Initial Calibration Verification Standard							11/30/10 11:59	
Uranium		0.0514	mg/L	0.00030	103	90	110			
Method: E200.8									Batch: C_28303	
Sample ID: MB-28303		Method Blank				Run: SUB-C140426			11/30/10 16:55	
Uranium		0.0002	mg/L	6E-05						
Sample ID: LCS2-28303		Laboratory Control Sample				Run: SUB-C140426			11/30/10 16:59	
Uranium		0.102	mg/L	0.00030	102	85	115			
Sample ID: R10110179-003I		Post Digestion Spike				Run: SUB-C140426			11/30/10 17:37	
Uranium		0.0130	mg/L	0.00030	102	70	130			
Sample ID: R10110179-003I		Post Digestion Spike Duplicate				Run: SUB-C140426			11/30/10 17:41	
Uranium		0.0132	mg/L	0.00030	103	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B157434	
Sample ID: QCS		Initial Calibration Verification Standard							11/18/10 14:41	
Mercury		0.0018	mg/L	0.0010	91	90	110			
Method: E245.1									Batch: B_50582	
Sample ID: MB-50582		Method Blank				Run: SUB-B157434			11/18/10 14:49	
Mercury		6E-05	mg/L	1E-05						
Sample ID: LCS-50582		Laboratory Control Sample				Run: SUB-B157434			11/18/10 14:52	
Mercury		0.0019	mg/L	0.0010	91	85	115			
Sample ID: R10110177-006D		Sample Matrix Spike				Run: SUB-B157434			11/18/10 15:18	
Mercury		0.0018	mg/L	0.0010	86	70	130			
Sample ID: R10110177-006D		Sample Matrix Spike Duplicate				Run: SUB-B157434			11/18/10 15:20	
Mercury		0.0018	mg/L	0.0010	86	70	130	0.0	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R49128
Sample ID: LFB111610-14	5	Laboratory Fortified Blank				Run: DIONEX_101116A				11/16/10 21:44
Chloride		38.1	mg/L	1.00	95	90	110			
Fluoride		3.87	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N		3.93	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N		4.00	mg/L	0.10	100	90	110			
Sulfate		37.4	mg/L	1.0	93	90	110			
Sample ID: R10110179-001AMS	5	Sample Matrix Spike				Run: DIONEX_101116A				11/16/10 22:19
Chloride		389	mg/L	10.0	88	90	110			S
Fluoride		39.0	mg/L	1.0	91	90	110			
Nitrogen, Nitrate as N		39.6	mg/L	1.0	99	90	110			
Nitrogen, Nitrite as N		40.2	mg/L	1.0	101	90	110			
Sulfate		909	mg/L	10	90	90	110			
Sample ID: R10110179-001AMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_101116A				11/16/10 22:37
Chloride		390	mg/L	10.0	89	90	110	0.3	10	S
Fluoride		39.0	mg/L	1.0	91	90	110	0.1	10	
Nitrogen, Nitrate as N		39.5	mg/L	1.0	99	90	110	0.2	10	
Nitrogen, Nitrite as N		40.3	mg/L	1.0	101	90	110	0.0	10	
Sulfate		912	mg/L	10	91	90	110	0.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-1012
Sample ID: MB-GrAB-1012	6	Method Blank				Run: SUB-C140538				12/02/10 21:27
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1012		Laboratory Control Sample				Run: SUB-C140538				12/02/10 21:27
Gross Alpha		110	pCi/L		110	70	130			
Sample ID: Cs137-GrAB-1012		Laboratory Control Sample				Run: SUB-C140538				12/02/10 21:28
Gross Beta		83	pCi/L		96	70	130			
Sample ID: R10110179-001H	6	Sample Duplicate				Run: SUB-C140538				12/02/10 21:28
Gross Alpha		-5.3	pCi/L					260	189.6	UR
Gross Alpha precision (±)		3.2	pCi/L							
Gross Alpha MDC		6.0	pCi/L							
Gross Beta		4.1	pCi/L					89	92.1	U
Gross Beta precision (±)		3.3	pCi/L							
Gross Beta MDC		5.3	pCi/L							
- For Gross Alpha the Sample and the Duplicate are both below the MDC; the RPD is acceptable.										
Sample ID: C10110899-001FMS		Sample Matrix Spike				Run: SUB-C140538				12/03/10 09:38
Gross Alpha		2930	pCi/L		344	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.										
Sample ID: C10110899-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C140538				12/03/10 09:38
Gross Alpha		2840	pCi/L		259	70	130	3.2	11.9	S
Sample ID: C10110899-001FMS		Sample Matrix Spike				Run: SUB-C140538				12/03/10 09:38
Gross Beta		530	pCi/L		143	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.										
Sample ID: C10110899-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C140538				12/03/10 09:38
Gross Beta		515	pCi/L		126	70	130	2.9	12.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-1020	
Sample ID: MB-GrAB-1020	6	Method Blank				Run: SUB-C141090			12/18/10 02:02	
Gross Alpha		-0.2	pCi/L							U
Gross Alpha precision (±)		0.8	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-0.5	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Sample ID: Th230-GrAB-1020		Laboratory Control Sample				Run: SUB-C141090			12/18/10 02:02	
Gross Alpha		100	pCi/L		98	70	130			
Sample ID: Cs137-GrAB-1020		Laboratory Control Sample				Run: SUB-C141090			12/18/10 02:02	
Gross Beta		86	pCi/L		97	70	130			
Sample ID: C10120299-001DMS		Sample Matrix Spike				Run: SUB-C141090			12/18/10 02:02	
Gross Alpha		110	pCi/L		108	70	130			
Sample ID: C10120299-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C141090			12/18/10 02:02	
Gross Alpha		110	pCi/L		108	70	130	0.0	17.4	
Sample ID: C10120299-001DMS		Sample Matrix Spike				Run: SUB-C141090			12/18/10 02:02	
Gross Beta		90	pCi/L		98	70	130			
Sample ID: C10120299-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C141090			12/18/10 02:02	
Gross Beta		94	pCi/L		103	70	130	4.9	15.9	
Sample ID: C10120455-001EDUP	6	Sample Duplicate				Run: SUB-C141090			12/20/10 22:38	
Gross Alpha		-6.32	pCi/L					9.1	91	U
Gross Alpha precision (±)		2.69	pCi/L							
Gross Alpha MDC		5.30	pCi/L							
Gross Beta		-0.648	pCi/L					140	880.2	U
Gross Beta precision (±)		2.02	pCi/L							
Gross Beta MDC		3.42	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R140453
Sample ID: LCS-R140453	3 Laboratory Control Sample					Run: SUB-C140453				11/18/10 15:20
Americium 241		670	pCi/L	50	82	70	130			
Cesium 137		990	pCi/L	50	99	70	130			
Potassium 40		6500	pCi/L	50	98	70	130			
Sample ID: MB-R140453	23 Method Blank					Run: SUB-C140453				11/18/10 15:20
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		500	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10110179-003H	23 Sample Duplicate					Run: SUB-C140453				11/18/10 15:20
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R140453
Sample ID: R10110179-003H	23	Sample Duplicate				Run: SUB-C140453				11/18/10 15:20
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		470	pCi/L	50				17	30	
Thorium 234 precision (±)		160	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		470	pCi/L					17	30	
Gross Gamma precision (±)		160	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-5019
Sample ID: C10110690-007EMS		Sample Matrix Spike				Run: SUB-C140374				11/29/10 17:41
Radium 226		15	pCi/L		86	70	130			
Sample ID: C10110690-007EMSD		Sample Matrix Spike Duplicate				Run: SUB-C140374				11/29/10 17:41
Radium 226		15	pCi/L		87	70	130	1.7	20.4	
Sample ID: MB-RA226-5019	3	Method Blank				Run: SUB-C140374				11/29/10 21:30
Radium 226		0.07	pCi/L							U
Radium 226 precision (±)		0.05	pCi/L							
Radium 226 MDC		0.07	pCi/L							
Sample ID: LCS-RA226-5019		Laboratory Control Sample				Run: SUB-C140374				11/29/10 21:30
Radium 226		7.5	pCi/L		93	70	130			
Method: E903.0										Batch: C_28303
Sample ID: R10110179-003I		Sample Matrix Spike				Run: SUB-C140646				12/06/10 16:46
Radium 226		18	pCi/L		95	70	130			
Sample ID: R10110179-003I		Sample Matrix Spike Duplicate				Run: SUB-C140646				12/06/10 16:46
Radium 226		21	pCi/L		108	70	130	13	19.9	
Sample ID: MB-28303	3	Method Blank				Run: SUB-C140646				12/06/10 16:46
Radium 226		0.3	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-28303		Laboratory Control Sample				Run: SUB-C140646				12/06/10 16:46
Radium 226		11	pCi/L		70	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										Batch: T_PB-210-0071
Sample ID: TAP WATERMSD		Laboratory Fortified Blank Duplicate				Run: SUB-T38878				02/11/11 04:01
Lead 210		55	pCi/L		104	70	130	2.0	15.4	
Sample ID: TAP WATERMS		Laboratory Fortified Blank				Run: SUB-T38878				02/11/11 01:50
Lead 210		57	pCi/L		106	70	130			
Sample ID: TAP WATER	3	Method Blank				Run: SUB-T38878				02/10/11 23:38
Lead 210		-0.78	pCi/L			0	0			U
Lead 210 precision (±)		0.79	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Sample ID: LCS-PB-210-0071		Laboratory Control Sample				Run: SUB-T38878				02/10/11 21:27
Lead 210		58	pCi/L		106	70	130			
Sample ID: MB-PB-210-0071	3	Method Blank				Run: SUB-T38878				02/10/11 17:04
Lead 210		0.09	pCi/L							U
Lead 210 precision (±)		0.8	pCi/L							
Lead 210 MDC		1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0328
Sample ID: C10110614-004DMS		Sample Matrix Spike				Run: SUB-C140360				11/29/10 09:17
Polonium 210		27	pCi/L		76	70	130			
Sample ID: C10110614-004DMSD		Sample Matrix Spike Duplicate				Run: SUB-C140360				11/29/10 09:17
Polonium 210		28	pCi/L		79	70	130	4.0	56.6	
Sample ID: MB-PO210-0328	3	Method Blank				Run: SUB-C140360				11/29/10 09:17
Polonium 210		0.3	pCi/L							U
Polonium 210 MDC		0.7	pCi/L							
Polonium 210 precision (±)		0.5	pCi/L							
Sample ID: LCS-PO210-0328		Laboratory Control Sample				Run: SUB-C140360				11/29/10 09:17
Polonium 210		13	pCi/L		77	70	130			
Method: E912.0										Batch: C_28303
Sample ID: R10110179-001I		Sample Matrix Spike				Run: SUB-C140443				12/01/10 09:34
Polonium 210		37	pCi/L		95	70	130			
Sample ID: R10110179-001I		Sample Matrix Spike Duplicate				Run: SUB-C140443				12/01/10 09:34
Polonium 210		38	pCi/L		99	70	130	3.4	56.4	
Sample ID: LCS-28303		Laboratory Control Sample				Run: SUB-C140443				12/01/10 09:34
Polonium 210		70	pCi/L		93	70	130			
Sample ID: MB-28303	3	Method Blank				Run: SUB-C140443				12/01/10 09:34
Polonium 210		-0.1	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: PowerTech, Inc. Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Scott Env., PowerTech	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address: PowerTech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

ANALYSIS REQUESTED

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

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: as per Antea

Shipped by: hand Del

Cooler ID(s):

Receipt Temp 3-2 °C

On Ice: (Y) N

Custody Seal
On Bottle Y N
On Cooler Y N
Intact Y N
Signature Match Y N

LABORATORY USE ONLY

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	
705	1 DB-09-21-01	11-15-10		Water	L10110179-001
706	2 DB-09-21-02	11-15-10		"	002
706	3 DB-09-21-02 Dup	11-15-10		"	003
	4				
	5				
	6				
	7				
	8				
	9				
	10				

Custody Record MUST be Signed

Relinquished by (print): Allen Scott Date/Time: 11-15-10 3:50pm Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Anderson 11/15/10 1550 Signature:

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, and links.

ANALYTICAL SUMMARY REPORT

February 14, 2011

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10120179

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 12/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10120179-001	DB-09-21-01	12/14/10 0:00	12/15/10	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 Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10120179-002	DB-09-21-02	12/14/10 0:00	12/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. 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 K. Larson

Digitally signed by
Linda Larson
Date: 2011.02.15 09:37:15 -07:00

Branch Manager

CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10120179

Revised Date: 02/14/11
Report Date: 02/01/11

CASE NARRATIVE

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Comments imported for SUBBED Workorder: C10120584
RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as recommended by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

GROSS GAMMA ANALYSIS
The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.
End of comments imported for SUBBED Workorder: C10120584
Comments imported for SUBBED Workorder: C10120584
RA226 ANALYSIS
The sample specific Minimum Detectable Concentration (MDC) as recommended by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

GROSS GAMMA ANALYSIS
The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.
End of comments imported for SUBBED Workorder: C10120584

Re-analysis done on SeVI. Initial results determined to be due to possible contamination in prep. Final results are in revised report.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-001
Client Sample ID: DB-09-21-01

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Calcium	95.8	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Chloride	8	mg/L		1		1	E300.0	12/16/10 23:25/tb
Fluoride	0.4	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Magnesium	34.4	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/28/10 12:17/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Potassium	11.7	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Sodium	163	mg/L	D	0.6		2	E200.7	12/22/10 18:59/eli-c
Sulfate	538	mg/L	D	10		10	E300.0	12/16/10 23:07/tb
Silica	10.4	mg/L		0.2		2	E200.7	01/17/11 12:46/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1350	umhos/cm		5.0		1	A2510 B	12/21/10 09:35/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	12/21/10 16:30/jmh
pH	7.59	s.u.		0.01		1	A4500-H B	12/15/10 14:07/hv
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	01/18/11 16:25/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D	10		1	A2540 C	12/15/10 16:32/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	12/22/10 18:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	12/22/10 18:59/eli-c
Copper	ND	mg/L		0.01		2	E200.7	12/22/10 18:59/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	12/22/10 18:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	12/22/10 18:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	12/22/10 18:59/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:04/eli-c
Silver	ND	mg/L		0.005		2	E200.7	12/22/10 18:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/13/11 21:27/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-001
Client Sample ID: DB-09-21-01

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/28/10 08:51/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	12/22/10 18:59/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	01/06/11 02:05/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/04/11 11:24/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:53/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.3	pCi/L	U			1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha MDC	5.6	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta	11.0	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta precision (±)	4.2	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta MDC	6.6	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Lead 210	-0.2	pCi/L	U			1	E909.0	01/03/11 15:01/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0	01/03/11 15:01/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0	01/03/11 15:01/eli-cs
Polonium 210	0.10	pCi/L	U			1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 MDC	0.66	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Radium 226	1.9	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Thorium 230	0.05	pCi/L	U			1	E908.0	01/09/11 13:55/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Gross Gamma	390	pCi/L				1	E901.1	12/22/01 06:10/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	12/22/01 06:10/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.6	pCi/L	U			1	E909.0	01/06/11 17:33/eli-cs
Lead 210 precision (±)	1.7	pCi/L				1	E909.0	01/06/11 17:33/eli-cs
Lead 210 MDC	2.8	pCi/L				1	E909.0	01/06/11 17:33/eli-cs
Polonium 210	0.0	pCi/L	U			1	E912.0	01/30/11 12:31/eli-ca
Polonium 210 precision (±)	0.25	pCi/L				1	E912.0	01/30/11 12:31/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-001
Client Sample ID: DB-09-21-01

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.61	pCi/L				1	E912.0	01/30/11 12:31/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	01/03/11 12:21/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Thorium 230	-0.2	pCi/L	U			1	E908.0	01/02/11 13:19/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E908.0	01/02/11 13:19/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E908.0	01/02/11 13:19/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	269	pCi/L		100		1	D5072-92	12/16/10 16:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/04/11 17:55/eli-c
Arsenic	0.003	mg/L	B	0.001		1	E200.8	12/30/10 15:13/eli-c
Barium	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Beryllium	ND	mg/L		0.001		1	E200.7	12/28/10 16:13/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.7	12/28/10 16:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	12/28/10 16:13/eli-c
Copper	ND	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
Iron	0.20	mg/L		0.03		1	E200.7	12/28/10 16:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/10 15:13/eli-c
Manganese	0.05	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/20/10 16:53/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Nickel	ND	mg/L		0.05		1	E200.7	12/28/10 16:13/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	01/06/11 04:24/eli-c
Silver	ND	mg/L		0.005		1	E200.7	12/28/10 16:13/eli-c
Strontium	2.7	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/10 15:13/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/04/11 17:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.940	%				1	A1030 E	01/24/11 00:00/jmh
Anions	14.8	meq/L				1	A1030 E	01/24/11 00:00/jmh
Cations	15.0	meq/L				1	A1030 E	01/24/11 00:00/jmh
Solids, Total Dissolved Calculated	979	mg/L				1	A1030 E	01/24/11 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	01/24/11 00:00/jmh

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.
B - The analyte was detected in the method blank.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Calcium	167	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Chloride	10	mg/L		1		1	E300.0	12/17/10 00:00/tb
Fluoride	0.6	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Magnesium	47.8	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/28/10 12:20/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Potassium	11.9	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Sodium	128	mg/L	D	0.6		2	E200.7	12/22/10 19:03/eli-c
Sulfate	682	mg/L	D	10		10	E300.0	12/16/10 23:43/tb
Silica	9.3	mg/L		0.2		2	E200.7	01/17/11 12:58/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	12/21/10 09:39/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	12/21/10 16:30/jmh
pH	7.30	s.u.		0.01		1	A4500-H B	12/15/10 14:12/hv
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	01/18/11 16:25/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	12/15/10 16:33/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	12/22/10 19:03/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	12/22/10 19:03/eli-c
Copper	ND	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/22/10 19:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Manganese	0.58	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	12/22/10 19:03/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:06/eli-c
Silver	ND	mg/L		0.005		2	E200.7	12/22/10 19:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/13/11 21:31/eli-c

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

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	12/28/10 08:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	01/06/11 02:09/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/04/11 11:26/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:53/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.2	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha MDC	6.6	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta	22.4	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta precision (±)	5.0	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta MDC	7.7	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Lead 210	-0.8	pCi/L	U			1	E909.0	01/03/11 21:35/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0	01/03/11 21:35/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0	01/03/11 21:35/eli-cs
Polonium 210	0.096	pCi/L	U			1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 precision (±)	0.32	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Radium 226	2.5	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Thorium 230	0.04	pCi/L	U			1	E908.0	01/09/11 13:55/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Gross Gamma	<162.4	pCi/L	U			1	E901.1	12/22/01 06:10/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.3	pCi/L	U			1	E909.0	01/07/11 00:08/eli-cs
Lead 210 precision (±)	1.5	pCi/L				1	E909.0	01/07/11 00:08/eli-cs
Lead 210 MDC	2.5	pCi/L				1	E909.0	01/07/11 00:08/eli-cs
Polonium 210	0.0	pCi/L	U			1	E912.0	01/30/11 12:31/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	01/30/11 12:31/eli-ca
Polonium 210 MDC	0.66	pCi/L				1	E912.0	01/30/11 12:31/eli-ca

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

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-002
Client Sample ID: DB-09-21-02

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.1	pCi/L	U			1	E903.0	01/03/11 12:21/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Thorium 230	-0.1	pCi/L	U			1	E908.0	01/02/11 13:19/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E908.0	01/02/11 13:19/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E908.0	01/02/11 13:19/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	241	pCi/L		100		1	D5072-92	12/16/10 16:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/28/10 09:32/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/28/10 09:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/28/10 09:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/28/10 09:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/28/10 16:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/28/10 09:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/28/10 09:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/28/10 09:32/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	12/28/10 16:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/28/10 09:32/eli-c
Manganese	0.52	mg/L		0.01		1	E200.8	12/28/10 09:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/20/10 16:54/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/28/10 09:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/28/10 09:32/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/28/10 09:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/28/10 09:32/eli-c
Strontium	2.2	mg/L		0.1		1	E200.8	12/28/10 09:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/28/10 09:32/eli-c
Uranium	0.0084	mg/L		0.0003		1	E200.8	12/28/10 09:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/28/10 09:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.560	%				1	A1030 E	01/24/11 00:00/jmh
Anions	18.4	meq/L				1	A1030 E	01/24/11 00:00/jmh
Cations	18.2	meq/L				1	A1030 E	01/24/11 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	01/24/11 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	01/24/11 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

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 101220A-ALK-SEL-W	
Sample ID: LCS1_101220A	Laboratory Control Sample					Run: PH_COND1-R_101220A			12/20/10 11:29	
Alkalinity, Total as CaCO3		964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_101220A	Method Blank					Run: PH_COND1-R_101220A			12/20/10 11:34	
Alkalinity, Total as CaCO3		ND	mg/L	7						
Sample ID: R10120199-002AMS	Sample Matrix Spike					Run: PH_COND1-R_101220A			12/20/10 15:24	
Alkalinity, Total as CaCO3		136	mg/L	5.0	98	80	120			
Sample ID: R10120199-002AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101220A			12/20/10 15:27	
Alkalinity, Total as CaCO3		136	mg/L	5.0	98	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 101221_2_COND-PROBE-W	
Sample ID: LCS1-1_101221	Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:26	
Conductivity @ 25 C		149	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_101221	Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:28	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_101221	Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:30	
Conductivity @ 25 C		5000	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101221	Method Blank					Run: PH_COND2-R_101221B			12/21/10 09:33	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10120179-001ADUP	Sample Duplicate					Run: PH_COND2-R_101221B			12/21/10 09:37	
Conductivity @ 25 C		1350	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: 101215A-SLDS-TDS-W	
Sample ID: LCS1_101215A	Laboratory Control Sample					Run: BAL-4-R_101215A			12/15/10 16:27	
Solids, Total Dissolved TDS @ 180 C		180	mg/L	10	90	90	110			
Sample ID: MBLK1_101215A	Method Blank					Run: BAL-4-R_101215A			12/15/10 16:27	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	3						
Sample ID: R10120135-001ADUP	Sample Duplicate					Run: BAL-4-R_101215A			12/15/10 16:29	
Solids, Total Dissolved TDS @ 180 C		1200	mg/L	10				2.3	5	
Sample ID: R10120179-002AMS	Sample Matrix Spike					Run: BAL-4-R_101215A			12/15/10 16:33	
Solids, Total Dissolved TDS @ 180 C		2300	mg/L	10	108	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: 101221-ORP-ISE-W	
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_101221A			12/21/10 16:30	
Oxidation-Reduction Potential		480	mV		100	95	105			
Sample ID: R10120179-001F	Sample Duplicate					Run: PH_COND1-R_101221A			12/21/10 16:30	
Oxidation-Reduction Potential		180	mV					3.2	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_28638
Sample ID: LCS-28638		Laboratory Control Sample				Run: SUB-C141280				12/28/10 12:29
Selenium-IV		0.050	mg/L	0.0010	99	90	110			
Sample ID: MB-28638		Method Blank				Run: SUB-C141280				12/28/10 12:27
Selenium-IV		ND	mg/L	0.0003						
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate				Run: SUB-C141280				12/28/10 12:38
Selenium-IV		0.048	mg/L	0.0010	97	85	115	15	15	
Sample ID: R10120179-002E		Sample Matrix Spike				Run: SUB-C141280				12/28/10 12:36
Selenium-IV		0.056	mg/L	0.0010	112	85	115			
Method: A3114 B										Batch: C_28638
Sample ID: R10120179-002E		Sample Matrix Spike				Run: SUB-C141299				12/28/10 14:33
Selenium		0.061	mg/L	0.0010	91	85	115			
Sample ID: LCS-28638		Laboratory Control Sample				Run: SUB-C141299				12/28/10 14:26
Selenium		0.054	mg/L	0.0010	107	90	110			
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate				Run: SUB-C141299				12/28/10 14:35
Selenium		0.059	mg/L	0.0010	86	85	115	3.5	15	
Sample ID: MB-28638		Method Blank				Run: SUB-C141299				12/28/10 14:24
Selenium		ND	mg/L	0.0002						
Method: A3114 B										Batch: C_28638
Sample ID: MB-28638		Method Blank				Run: SUB-C142470				02/04/11 11:20
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-28638		Laboratory Control Sample				Run: SUB-C142470				02/04/11 11:22
Selenium-IV		0.024	mg/L	0.0010	96	90	110			
Sample ID: R10120179-002E		Sample Matrix Spike				Run: SUB-C142470				02/04/11 11:27
Selenium-IV		0.025	mg/L	0.0010	102	85	115			
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate				Run: SUB-C142470				02/04/11 11:29
Selenium-IV		0.025	mg/L	0.0010	102	85	115	0.3	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **A3114 B**										Batch: C_28638
Sample ID: **R10120179-002E**		Sample Matrix Spike Duplicate				Run: SUB-C142475				02/04/11 13:09
Selenium		0.024	mg/L	0.0010	88	85	115	11	15	
Sample ID: **MB-28638**		Method Blank				Run: SUB-C142475				02/04/11 13:00
Selenium		ND	mg/L	0.0003						
Sample ID: **LCS-28638**		Laboratory Control Sample				Run: SUB-C142475				02/04/11 13:02
Selenium		0.025	mg/L	0.0010	102	90	110			
Sample ID: **R10120179-002E**		Sample Matrix Spike				Run: SUB-C142475				02/04/11 13:07
Selenium		0.021	mg/L	0.0010	78	85	115			S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										Batch: 101215_1_PH-W
Sample ID: LCS_pH-1_101215	Laboratory Control Sample					Run: PH_COND2-R_101215A				12/15/10 13:37
pH		7.43	s.u.	0.010	100	98.55	101.45			
Sample ID: R10120153-001ADUP	Sample Duplicate					Run: PH_COND2-R_101215A				12/15/10 13:45
pH		8.46	s.u.	0.010				0.4	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2010-12-28_2_NH3_01	
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_101228A			12/28/10 11:48	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_101228A			12/28/10 11:49	
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	90	110			
Sample ID: R10120179-001BMS	Sample Matrix Spike					Run: TECHAA2-R_101228A			12/28/10 12:18	
Nitrogen, Ammonia as N		0.43	mg/L	0.10	94	80	120			
Sample ID: R10120179-001BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_101228A			12/28/10 12:19	
Nitrogen, Ammonia as N		0.42	mg/L	0.10	91	80	120	1.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92										Batch: C_R141031
Sample ID: R10120179-002G	Sample Duplicate					Run: SUB-C141031				12/16/10 16:27
Radon 222		270	pCi/L	100				12	30	
Sample ID: MB-R141031	Method Blank					Run: SUB-C141031				12/16/10 16:27
Radon 222		10	pCi/L							U
Sample ID: LCS-R141031	Laboratory Control Sample					Run: SUB-C141031				12/16/10 16:27
Radon 222		300	pCi/L	100	94	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R141199
Sample ID: C10120365-002AMSD2	17 Sample Matrix Spike Duplicate					Run: SUB-C141199				12/22/10 18:22
Aluminum		1.88	mg/L	0.10	92	70	130	2.2	20	
Barium		2.03	mg/L	0.10	98	70	130	1.3	20	
Boron		2.47	mg/L	0.10	100	70	130	1.5	20	
Cadmium		1.96	mg/L	0.010	96	70	130	2.4	20	
Chromium		1.97	mg/L	0.050	97	70	130	1.4	20	
Copper		2.03	mg/L	0.010	99	70	130	1.4	20	
Iron		1.99	mg/L	0.030	97	70	130	2.1	20	
Manganese		2.00	mg/L	0.010	98	70	130	0.8	20	
Molybdenum		2.01	mg/L	0.10	96	70	130	0.8	20	
Nickel		1.97	mg/L	0.050	97	70	130	0.8	20	
Silver		1.97	mg/L	0.010	97	70	130	1.7	20	
Vanadium		1.97	mg/L	0.10	97	70	130	0.3	20	
Zinc		2.03	mg/L	0.010	97	70	130	1.1	20	
Calcium		292	mg/L	1.0	94	70	130	0.2	20	
Magnesium		276	mg/L	1.0	99	70	130	1.2	20	
Potassium		127	mg/L	1.0	80	70	130	0.2	20	
Sodium		627	mg/L	1.0		70	130	0.3	20	A
Sample ID: C10120365-002AMS2	17 Sample Matrix Spike					Run: SUB-C141199				12/22/10 18:18
Aluminum		1.84	mg/L	0.10	90	70	130			
Barium		2.00	mg/L	0.10	97	70	130			
Boron		2.43	mg/L	0.10	98	70	130			
Cadmium		1.92	mg/L	0.010	94	70	130			
Chromium		1.95	mg/L	0.050	95	70	130			
Copper		2.00	mg/L	0.010	98	70	130			
Iron		1.95	mg/L	0.030	95	70	130			
Manganese		1.98	mg/L	0.010	97	70	130			
Molybdenum		2.00	mg/L	0.10	95	70	130			
Nickel		1.99	mg/L	0.050	97	70	130			
Silver		1.94	mg/L	0.010	95	70	130			
Vanadium		1.97	mg/L	0.10	97	70	130			
Zinc		2.01	mg/L	0.010	96	70	130			
Calcium		292	mg/L	1.0	94	70	130			
Magnesium		273	mg/L	1.0	96	70	130			
Potassium		127	mg/L	1.0	80	70	130			
Sodium		625	mg/L	1.0		70	130			A
Sample ID: LFB-101222A	17 Laboratory Fortified Blank					Run: SUB-C141199				12/22/10 11:33
Aluminum		0.94	mg/L	0.10	94	85	115			
Barium		0.94	mg/L	0.10	94	85	115			
Boron		0.97	mg/L	0.10	97	85	115			
Cadmium		0.97	mg/L	0.010	97	85	115			
Calcium		48	mg/L	0.50	96	85	115			
Chromium		0.95	mg/L	0.050	95	85	115			
Copper		0.97	mg/L	0.010	97	85	115			

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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R141199
Sample ID: LFB-101222A	17	Laboratory Fortified Blank				Run: SUB-C141199				12/22/10 11:33
Iron		0.95	mg/L	0.030	95	85	115			
Magnesium		47	mg/L	0.50	95	85	115			
Manganese		0.96	mg/L	0.010	96	85	115			
Molybdenum		0.95	mg/L	0.10	95	85	115			
Nickel		0.94	mg/L	0.050	94	85	115			
Potassium		44	mg/L	0.50	88	85	115			
Silver		0.95	mg/L	0.010	95	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Vanadium		0.98	mg/L	0.10	98	85	115			
Zinc		0.96	mg/L	0.010	96	85	115			
Sample ID: MB-101222A	17	Method Blank				Run: SUB-C141199				12/22/10 11:29
Aluminum		ND	mg/L	0.01						
Barium		0.0009	mg/L	0.0005						
Boron		ND	mg/L	0.009						
Cadmium		ND	mg/L	0.001						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		0.002	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Silver		ND	mg/L	0.001						
Sodium		ND	mg/L	0.3						
Vanadium		ND	mg/L	0.03						
Zinc		0.002	mg/L	0.001						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_28617
Sample ID: MB-28617	13 Method Blank					Run: SUB-C141316				12/28/10 15:57
Barium		ND	mg/L	0.002						
Beryllium		ND	mg/L	0.0001						
Boron		0.01	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Zinc		ND	mg/L	0.008						
Sample ID: C10120619-002CMS3	13 Sample Matrix Spike					Run: SUB-C141316				12/28/10 16:37
Barium		0.345	mg/L	0.10	69	70	130			S
Beryllium		0.235	mg/L	0.010	94	70	130			
Boron		2.40	mg/L	0.41		70	130			A
Cadmium		0.225	mg/L	0.056	90	70	130			
Chromium		0.440	mg/L	0.12	88	70	130			
Copper		0.575	mg/L	0.071	115	70	130			
Iron		6.96	mg/L	0.41	113	70	130			
Manganese		3.10	mg/L	0.038	93	70	130			
Molybdenum		0.540	mg/L	0.26	108	70	130			
Nickel		0.455	mg/L	0.13	91	70	130			
Silver		ND	mg/L	0.071		70	130			S
Strontium		9.64	mg/L	0.10		70	130			A
Zinc		0.635	mg/L	0.40	127	70	130			
Sample ID: LCS3-28617	13 Laboratory Control Sample					Run: SUB-C141316				12/28/10 16:01
Barium		0.501	mg/L	0.10	100	85	115			
Beryllium		0.258	mg/L	0.010	103	85	115			
Boron		0.507	mg/L	0.10	99	85	115			
Cadmium		0.247	mg/L	0.010	99	85	115			
Chromium		0.502	mg/L	0.050	100	85	115			
Copper		0.511	mg/L	0.010	102	85	115			
Iron		2.54	mg/L	0.030	102	85	115			
Manganese		2.52	mg/L	0.010	101	85	115			
Molybdenum		0.518	mg/L	0.10	104	85	115			
Nickel		0.514	mg/L	0.050	103	85	115			
Silver		0.0504	mg/L	0.010	101	85	115			
Strontium		0.508	mg/L	0.10	102	85	115			
Zinc		0.512	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_28617
Sample ID: C10120619-002CMSD3	13	Sample Matrix Spike Duplicate				Run: SUB-C141316			12/28/10 16:41	
Barium		0.370	mg/L	0.10	74	70	130	7.0	20	
Beryllium		0.235	mg/L	0.010	94	70	130	0.0	20	
Boron		2.26	mg/L	0.41		70	130	6.2	20	A
Cadmium		0.230	mg/L	0.056	92	70	130	2.2	20	
Chromium		0.435	mg/L	0.12	87	70	130	1.1	20	
Copper		0.550	mg/L	0.071	110	70	130	4.4	20	
Iron		7.13	mg/L	0.41	120	70	130	2.4	20	
Manganese		3.15	mg/L	0.038	95	70	130	1.6	20	
Molybdenum		0.545	mg/L	0.26	109	70	130	0.9	20	
Nickel		0.490	mg/L	0.13	98	70	130	7.4	20	
Silver		ND	mg/L	0.071		70	130		20	S
Strontium		19.1	mg/L	0.10		70	130	66	20	AR
Zinc		0.675	mg/L	0.40	135	70	130	6.1	20	S
Method: E200.7										Batch: C_R141316
Sample ID: MB-101228A	2	Method Blank				Run: SUB-C141316			12/28/10 14:29	
Boron		ND	mg/L	0.009						
Iron		ND	mg/L	0.002						
Sample ID: LFB-101228A	2	Laboratory Fortified Blank				Run: SUB-C141316			12/28/10 14:33	
Boron		0.95	mg/L	0.10	95	85	115			
Iron		0.98	mg/L	0.030	98	85	115			
Sample ID: C10110844-005BMS2	2	Sample Matrix Spike				Run: SUB-C141316			12/28/10 15:28	
Boron		2.19	mg/L	0.10	97	70	130			
Iron		1.96	mg/L	0.030	96	70	130			
Sample ID: C10110844-005BMSD2	2	Sample Matrix Spike Duplicate				Run: SUB-C141316			12/28/10 15:32	
Boron		2.17	mg/L	0.10	96	70	130	0.9	20	
Iron		1.95	mg/L	0.030	95	70	130	0.5	20	
Method: E200.7										Batch: C_R141904
Sample ID: LFB-110117B		Laboratory Fortified Blank				Run: SUB-C141904			01/17/11 11:54	
Silicon		0.43	mg/L	0.10	92	85	115			
Sample ID: R10120179-001C		Sample Matrix Spike				Run: SUB-C141904			01/17/11 12:50	
Silicon		5.62	mg/L	0.10		70	130			A
Sample ID: R10120179-001C		Sample Matrix Spike Duplicate				Run: SUB-C141904			01/17/11 12:54	
Silicon		5.61	mg/L	0.10		70	130	0.2	20	A
Sample ID: MB-110117B		Method Blank				Run: SUB-C141904			01/17/11 11:50	
Silicon		ND	mg/L	0.007						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

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

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R141273	
Sample ID: C10120614-001CMS4	18 Post Digestion Spike					Run: SUB-C141273			12/28/10 09:45	
Antimony		0.261	mg/L	0.050	102	70	130			
Arsenic		0.510	mg/L	0.0015	89	70	130			
Barium		0.737	mg/L	0.10	98	70	130			
Beryllium		0.221	mg/L	0.010	88	70	130			
Cadmium		0.213	mg/L	0.010	85	70	130			
Chromium		0.228	mg/L	0.050	91	70	130			
Copper		0.217	mg/L	0.010	85	70	130			
Lead		0.251	mg/L	0.050	100	70	130			
Manganese		0.278	mg/L	0.010	90	70	130			
Mercury		0.0250	mg/L	0.0010	99	70	130			
Molybdenum		0.284	mg/L	0.10	100	70	130			
Nickel		0.237	mg/L	0.050	84	70	130			
Selenium		0.240	mg/L	0.0035	84	70	130			
Silver		0.0770	mg/L	0.010	77	70	130			
Strontium		40.4	mg/L	0.10		70	130			A
Thallium		0.255	mg/L	0.10	101	70	130			
Uranium		0.277	mg/L	0.00030	111	70	130			
Zinc		0.215	mg/L	0.010	81	70	130			
Sample ID: LRB	18 Method Blank					Run: SUB-C141273			12/27/10 16:48	
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Barium		ND	mg/L	3E-05						
Beryllium		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		0.0007	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Selenium		ND	mg/L	0.0002						
Silver		ND	mg/L	3E-05						
Strontium		ND	mg/L	3E-05						
Thallium		ND	mg/L	1E-05						
Uranium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	18 Laboratory Fortified Blank					Run: SUB-C141273			12/27/10 16:55	
Antimony		0.0552	mg/L	0.0010	110	85	115			
Arsenic		0.0549	mg/L	0.0010	110	85	115			
Barium		0.0554	mg/L	0.0010	111	85	115			
Beryllium		0.0569	mg/L	0.0010	114	85	115			
Cadmium		0.0548	mg/L	0.0010	110	85	115			

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.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R141273	
Sample ID: LFB	18	Laboratory Fortified Blank				Run: SUB-C141273			12/27/10 16:55	
Chromium		0.0540	mg/L	0.0010	108	85	115			
Copper		0.0533	mg/L	0.0010	107	85	115			
Lead		0.0554	mg/L	0.0010	111	85	115			
Manganese		0.0544	mg/L	0.0010	109	85	115			
Mercury		0.00567	mg/L	0.0010	113	85	115			
Molybdenum		0.0562	mg/L	0.0010	111	85	115			
Nickel		0.0538	mg/L	0.0010	108	85	115			
Selenium		0.0550	mg/L	0.0010	110	85	115			
Silver		0.0213	mg/L	0.0010	106	85	115			
Strontium		0.0544	mg/L	0.0010	109	85	115			
Thallium		0.0548	mg/L	0.0010	110	85	115			
Uranium		0.0563	mg/L	0.00030	113	85	115			
Zinc		0.0566	mg/L	0.0010	113	85	115			
Sample ID: C10120614-001CMSD4	18	Post Digestion Spike Duplicate				Run: SUB-C141273			12/28/10 09:52	
Antimony		0.282	mg/L	0.050	111	70	130	8.0	20	
Arsenic		0.532	mg/L	0.0015	98	70	130	4.1	20	
Barium		0.789	mg/L	0.10	119	70	130	6.7	20	
Beryllium		0.230	mg/L	0.010	92	70	130	4.4	20	
Cadmium		0.227	mg/L	0.010	91	70	130	6.4	20	
Chromium		0.240	mg/L	0.050	96	70	130	5.3	20	
Copper		0.224	mg/L	0.010	88	70	130	3.5	20	
Lead		0.265	mg/L	0.050	106	70	130	5.5	20	
Manganese		0.299	mg/L	0.010	98	70	130	7.1	20	
Mercury		0.0274	mg/L	0.0010	109	70	130	9.0	20	
Molybdenum		0.302	mg/L	0.10	107	70	130	6.1	20	
Nickel		0.244	mg/L	0.050	87	70	130	2.9	20	
Selenium		0.247	mg/L	0.0035	87	70	130	3.2	20	
Silver		0.0832	mg/L	0.010	83	70	130	7.7	20	
Strontium		41.6	mg/L	0.10		70	130	3.0	20	A
Thallium		0.271	mg/L	0.10	107	70	130	6.0	20	
Uranium		0.289	mg/L	0.00030	116	70	130	4.4	20	
Zinc		0.277	mg/L	0.010	106	70	130	25	20	R

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

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

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28617
Sample ID: C10120619-002CMSD3	3	Sample Matrix Spike Duplicate				Run: SUB-C141375				12/30/10 16:14
Arsenic		0.431	mg/L	0.0010	83	70	130	0.5	20	
Lead		0.525	mg/L	0.050	104	70	130	4.6	20	
Thallium		0.541	mg/L	0.10	108	70	130	3.7	20	
Sample ID: C10120619-002CMS3	3	Sample Matrix Spike				Run: SUB-C141375				12/30/10 16:07
Arsenic		0.433	mg/L	0.0010	83	70	130			
Lead		0.501	mg/L	0.050	99	70	130			
Thallium		0.522	mg/L	0.10	104	70	130			
Sample ID: LCS3-28617	3	Laboratory Control Sample				Run: SUB-C141375				12/30/10 14:53
Arsenic		0.494	mg/L	0.0010	98	85	115			
Lead		0.523	mg/L	0.050	105	85	115			
Thallium		0.511	mg/L	0.10	102	85	115			
Sample ID: MB-28617	3	Method Blank				Run: SUB-C141375				12/30/10 14:46
Arsenic		0.002	mg/L	0.0003						
Lead		ND	mg/L	5E-05						
Thallium		0.0004	mg/L	5E-05						
Method: E200.8										Batch: C_28617
Sample ID: C10120619-002CMS3	2	Sample Matrix Spike				Run: SUB-C141484				01/04/11 18:22
Antimony		0.491	mg/L	0.050	98	70	130			
Selenium		0.192	mg/L	0.0010	38	70	130			S
Sample ID: C10120619-002CMSD3	2	Sample Matrix Spike Duplicate				Run: SUB-C141484				01/04/11 18:28
Antimony		0.493	mg/L	0.050	98	70	130	0.4	20	
Selenium		0.242	mg/L	0.0010	49	70	130	23	20	SR
Sample ID: LCS3-28617	2	Laboratory Control Sample				Run: SUB-C141484				01/04/11 17:08
Antimony		0.563	mg/L	0.050	113	85	115			
Selenium		0.513	mg/L	0.0010	103	85	115			
Sample ID: MB-28617	2	Method Blank				Run: SUB-C141484				01/04/11 17:01
Antimony		0.0003	mg/L	0.0002						
Selenium		ND	mg/L	0.0007						

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28617
Sample ID: MB-28617		Method Blank				Run: SUB-C141538				01/06/11 04:04
Selenium		ND	mg/L	0.0007						
Sample ID: C10120619-002CMSD3		Sample Matrix Spike Duplicate				Run: SUB-C141538				01/06/11 05:25
Selenium		0.397	mg/L	0.0010	79	70	130	5.8	20	
Sample ID: LCS3-28617		Laboratory Control Sample				Run: SUB-C141538				01/06/11 04:10
Selenium		0.452	mg/L	0.0010	90	85	115			
Sample ID: C10120619-002CMS3		Sample Matrix Spike				Run: SUB-C141538				01/06/11 05:18
Selenium		0.421	mg/L	0.0010	84	70	130			
Method: E200.8										Batch: C_28598
Sample ID: R10120179-002I		Post Digestion Spike Duplicate				Run: SUB-C141539				01/06/11 02:17
Uranium		0.0670	mg/L	0.00030	134	70	130	0.6	20	S
Sample ID: R10120179-002I		Post Digestion Spike				Run: SUB-C141539				01/06/11 02:13
Uranium		0.0673	mg/L	0.00030	135	70	130			S
Sample ID: MB-28598		Method Blank				Run: SUB-C141539				01/06/11 01:36
Uranium		0.0002	mg/L	7E-05						
Sample ID: LCS2-28598		Laboratory Control Sample				Run: SUB-C141539				01/06/11 01:40
Uranium		0.119	mg/L	0.00030	118	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Method: E200.8										Batch: C_R141821
Sample ID: LRB		Method Blank				Run: SUB-C141821				01/13/11 12:12
Thorium 232		4E-05	mg/L	3E-05						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-C141821				01/13/11 12:16
Thorium 232		0.0526	mg/L	0.0010	105	85	115			
Sample ID: R10120179-002C		Post Digestion Spike				Run: SUB-C141821				01/13/11 21:36
Thorium 232		0.0559	mg/L	0.0010	109	70	130			
Sample ID: R10120179-002C		Post Digestion Spike Duplicate				Run: SUB-C141821				01/13/11 21:40
Thorium 232		0.0583	mg/L	0.0010	114	70	130	4.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-B158820	
Sample ID: QCS		Initial Calibration Verification Standard							12/20/10 15:34	
Mercury		0.0020	mg/L	0.0010	102	90	110			
Method: E245.1									Batch: B_51167	
Sample ID: MB-51167		Method Blank				Run: SUB-B158820			12/20/10 16:39	
Mercury		3E-05	mg/L	1E-05						
Sample ID: LCS-51167		Laboratory Control Sample				Run: SUB-B158820			12/20/10 16:41	
Mercury		0.0019	mg/L	0.0010	92	85	115			
Sample ID: B10121480-001BMS		Sample Matrix Spike				Run: SUB-B158820			12/20/10 16:46	
Mercury		0.0015	mg/L	0.0010	75	70	130			
Sample ID: B10121480-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-B158820			12/20/10 16:49	
Mercury		0.0016	mg/L	0.0010	80	70	130	5.8	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R49463
Sample ID: LFB121610-14	5	Laboratory Fortified Blank				Run: DIONEX_101216A				12/16/10 21:57
Chloride		38.1	mg/L	1.00	95	90	110			
Fluoride		3.88	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N		3.79	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N		3.91	mg/L	0.10	98	90	110			
Sulfate		37.4	mg/L	1.0	94	90	110			
Sample ID: R10120177-001BMS	5	Sample Matrix Spike				Run: DIONEX_101216A				12/16/10 22:32
Chloride		54.1	mg/L	1.00	98	90	110			
Fluoride		4.64	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N		4.26	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N		3.91	mg/L	0.10	98	90	110			
Sulfate		108	mg/L	1.0	106	90	110			
Sample ID: R10120177-001BMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_101216A				12/16/10 22:50
Chloride		54.2	mg/L	1.00	98	90	110	0.2	10	
Fluoride		4.65	mg/L	0.10	92	90	110	0.3	10	
Nitrogen, Nitrate as N		4.26	mg/L	0.10	91	90	110	0.1	10	
Nitrogen, Nitrite as N		3.90	mg/L	0.10	98	90	110	0.3	10	
Sulfate		109	mg/L	1.0	107	90	110	0.3	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-1025
Sample ID: MB-GrAB-1025	6	Method Blank				Run: SUB-C141522				01/04/11 22:52
Gross Alpha		-0.8	pCi/L							U
Gross Alpha precision (±)		0.6	pCi/L							
Gross Alpha MDC		0.7	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1025		Laboratory Control Sample				Run: SUB-C141522				01/04/11 22:52
Gross Alpha		100	pCi/L		98	70	130			
Sample ID: R10120179-001H	6	Sample Duplicate				Run: SUB-C141522				01/04/11 22:52
Gross Alpha		-0.63	pCi/L					77	1337.7	U
Gross Alpha precision (±)		3.2	pCi/L							
Gross Alpha MDC		5.5	pCi/L							
Gross Beta		8.0	pCi/L					32	95.6	
Gross Beta precision (±)		4.1	pCi/L							
Gross Beta MDC		6.6	pCi/L							
Sample ID: C10120819-001FMS		Sample Matrix Spike				Run: SUB-C141522				01/05/11 11:01
Gross Alpha		112	pCi/L		98	70	130			
Sample ID: C10120819-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C141522				01/05/11 11:01
Gross Beta		90.0	pCi/L		96	70	130	0.3	15.6	
Sample ID: C10120819-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C141522				01/05/11 11:01
Gross Alpha		109	pCi/L		95	70	130	2.8	17.3	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R141237
Sample ID: R10120179-002H	23	Sample Duplicate				Run: SUB-C141237				12/22/01 06:10
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		360	pCi/L	50					30	
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		360	pCi/L					200	30	R
Gross Gamma precision (±)		130	pCi/L							
- Activity of original sample is below detection limit; duplicate is above detection limit, but within the limits of precision. RER is acceptable, therefore the batch is acceptable										
Sample ID: LCS-R141237	3	Laboratory Control Sample				Run: SUB-C141237				12/22/01 06:10
Americium 241		660	pCi/L	50	81	70	130			
Cesium 137		990	pCi/L	50	99	70	130			
Potassium 40		6600	pCi/L	50	99	70	130			
Sample ID: MB-R141237	23	Method Blank				Run: SUB-C141237				12/22/01 06:10
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R141237
Sample ID: MB-R141237	23	Method Blank				Run: SUB-C141237				12/22/01 06:10
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		400	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		400	pCi/L							
Gross Gamma precision (±)		80	pCi/L							

- See Case Narrative regarding Gross Gamma analysis.

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_RA226-5079
Sample ID: LCS-RA226-5079		Laboratory Control Sample				Run: SUB-C141391				12/29/10 22:07
Radium 226		8.1	pCi/L		129	70	130			
Sample ID: C10120676-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-C141391				12/29/10 16:43
Radium 226		16.4	pCi/L		106	70	130	8.6	22.9	
Sample ID: C10120676-001AMS		Sample Matrix Spike				Run: SUB-C141391				12/29/10 16:43
Radium 226		15.0	pCi/L		95	70	130			
Sample ID: MB-RA226-5079	3	Method Blank				Run: SUB-C141391				12/29/10 22:07
Radium 226		-0.05	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Method: E903.0										Batch: C_R141421
Sample ID: LCS-28598		Laboratory Control Sample				Run: SUB-C141421				01/03/11 12:21
Radium 226		14	pCi/L		113	70	130			
Sample ID: R10120179-001I		Sample Matrix Spike Duplicate				Run: SUB-C141421				01/03/11 12:21
Radium 226		30	pCi/L		115	70	130	3.8	24.7	
Sample ID: MB-28598	3	Method Blank				Run: SUB-C141421				01/03/11 12:21
Radium 226		0.02	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Sample ID: R10120179-001I		Sample Matrix Spike				Run: SUB-C141421				01/03/11 12:21
Radium 226		29	pCi/L		110	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: C_R141572
Sample ID: C10120734-007HMS		Sample Matrix Spike				Run: SUB-C141572				01/02/11 13:19
Thorium 230		9.1	pCi/L		104	70	130			
Sample ID: MB-28598	3	Method Blank				Run: SUB-C141572				01/02/11 13:19
Thorium 230		0.04	pCi/L							U
Thorium 230 MDC		0.10	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							
Sample ID: C10120734-007HMSD		Sample Matrix Spike Duplicate				Run: SUB-C141572				01/04/11 09:07
Thorium 230		9.3	pCi/L		106	70	130	1.6	30.3	
Sample ID: LCS-28598		Laboratory Control Sample				Run: SUB-C141572				01/02/11 13:19
Thorium 230		11	pCi/L		112	70	130			
Method: E908.0										Batch: C_RA-TH-ISO-1314
Sample ID: LCS-RA-TH-ISO-1314		Laboratory Control Sample				Run: SUB-C141753				01/09/11 13:55
Thorium 230		5.3	pCi/L		93	70	130			
Sample ID: C10120463-001AMS		Sample Matrix Spike				Run: SUB-C141753				01/09/11 13:55
Thorium 230		11	pCi/L		95	70	130			
Sample ID: C10120463-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-C141753				01/09/11 13:55
Thorium 230		13	pCi/L		115	70	130	19	45.5	
Sample ID: MB-RA-TH-ISO-1314	3	Method Blank				Run: SUB-C141753				01/10/11 08:55
Thorium 230		0.06	pCi/L							U
Thorium 230 MDC		0.09	pCi/L							
Thorium 230 precision (±)		0.06	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc **Report Date:** 02/01/11

Project: Dewey Groundwater Sampling **Work Order:** R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0									Analytical Run: SUB-T38341	
Sample ID: STD-PB-210-0060	3	Continuing Calibration Verification Standard							01/03/11 01:52	
Lead 210		32	pCi/L		100	70	130	0.0	30	
Lead 210 precision (±)		1.2	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Method: E909.0									Batch: T_PB-210-0060	
Sample ID: MB-PB-210-0060	3	Method Blank				Run: SUB-T38341			01/03/11 04:03	
Lead 210		-0.7	pCi/L							U
Lead 210 precision (±)		0.8	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: LCS-PB-210-0060		Laboratory Control Sample				Run: SUB-T38341			01/03/11 06:15	
Lead 210		40	pCi/L		75	70	130			
Sample ID: R10120179-001H		Sample Matrix Spike				Run: SUB-T38341			01/03/11 17:12	
Lead 210		89	pCi/L		82	70	130			
Sample ID: R10120179-001H		Sample Matrix Spike Duplicate				Run: SUB-T38341			01/03/11 19:23	
Lead 210		79	pCi/L		74	70	130	11	16.4	
Method: E909.0									Batch: T_PB-210-0061	
Sample ID: MB-12991	3	Method Blank				Run: SUB-T38403			01/06/11 13:11	
Lead 210			pCi/L							U
Lead 210 precision (±)		7	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-12991		Laboratory Control Sample				Run: SUB-T38403			01/06/11 15:22	
Lead 210		480	pCi/L		89	70	130			
Sample ID: R10120179-001I		Sample Matrix Spike				Run: SUB-T38403			01/06/11 19:45	
Lead 210		120	pCi/L		83	70	130			
Sample ID: R10120179-001I		Sample Matrix Spike Duplicate				Run: SUB-T38403			01/06/11 21:56	
Lead 210		120	pCi/L		89	70	130	5.7	15.3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: C_PO210-0335
Sample ID: MB-PO210-0335	3	Method Blank				Run: SUB-C141523				01/05/11 11:54
Polonium 210		0.3	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.4	pCi/L							
Sample ID: C10120734-007FMSD		Sample Matrix Spike Duplicate				Run: SUB-C141523				01/05/11 11:54
Polonium 210		26	pCi/L		80	70	130	20	60.9	
Sample ID: LCS-PO210-0335		Laboratory Control Sample				Run: SUB-C141523				01/05/11 11:54
Polonium 210		16	pCi/L		99	70	130			
Sample ID: C10120734-007FMS		Sample Matrix Spike				Run: SUB-C141523				01/05/11 11:54
Polonium 210		31	pCi/L		98	70	130			
Method: E912.0										Batch: C_R142293
Sample ID: R10120179-002I		Sample Matrix Spike Duplicate				Run: SUB-C142293				01/30/11 12:31
Polonium 210		42	pCi/L		110	70	130	9.4	61.7	
Sample ID: R10120179-002I		Sample Matrix Spike				Run: SUB-C142293				01/30/11 12:31
Polonium 210		46	pCi/L		121	70	130			
Sample ID: MB-28543	3	Method Blank				Run: SUB-C142293				01/30/11 12:31
Polonium 210		-0.03	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: LCS-28543		Laboratory Control Sample				Run: SUB-C142293				01/30/11 12:31
Polonium 210		64	pCi/L		84	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

Page ____ of ____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env.	Project Name, PWS, Permit, Etc.: PowerTech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Scott Env. / PowerTech	Contact Name: Allen Scott Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address: PowerTech	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

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

ANALYSIS REQUESTED

Acc Quote

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

➡ Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 3.8 °C

On Ice: (Y) N

Custody Seal On Bottle Y N On Cooler Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX
705	1 DB-09-21-01	12-14-10		Water
706	2 DB-09-21-02	12-14-10		"
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			

LABORATORY USE ONLY R10120179-001 002

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Allen Scott	12-15-10 10:00				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time:	Signature:
				Steve Fossland	12-15-10 1000	Steve Fossland

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, and links.