Table 3.4.2-5 Water Quality Data from MRSW-1

			MRSW-1							
Parameters	**11/3/06**	**3/23/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	1140	814	391				187	269	290	515
Carbonate as CO3, mg/L	19	43	50				8	18	168	51
Chloride, mg/L	10	3	3				<1	<1	2	3
Conductivity, umhos/cm	1940	1260	714				308	434	914	928
Fluoride, mg/L	0.5	0.7	0.4				0.1	0.2	0.4	0.4
pH, s.u.	8.48	9.06	9.44				8.64	8.76	9.88	9.04
Solids, Total Dissolved TDS @ 180 C, mg/L	1160	772	472			78	221	270	590	509
Solids, Total Suspended TSS @ 105 C, mg/l		19.3		9	4	46	5	20	11	16
Sulfate, mg/L	39	1	2				3	3	<1	8
Turbidity, NTU				15.5	8.1	22.3	9.2	23.5	17.5	116.0
Gross Alpha, pci/L	6.8	1.0					<1.6	4.5	<4.3	3.6
Gross Beta, pci/L	21.8	10.3					4.2	4.9	8.7	10.0
Lead 210, pci/L	170*	1.0	1.0				<2.8	<3.1	<2.2	2.0
Polonium 210, pci/L	<1.0	<1.0	<1.0				<0.7	<0.8	<0.8	0.78
Radium 226, pci/L	<0.2	<0.2	<0.2				<0.12	<0.13	0.32	0.14
Radium 228, pci/L	<1.0	<1.0	<1.0				<1.5	<1.3	<1	<1.0
Thorium 230, pci/L	<.2	<0.2	<0.2				<0.5	<0.6	<0.4	<0.3
Nitrogen, Ammonia as N, mg/L	0.15	0.08	0.12				<0.05	<0.05	<0.05	0.08
Nitrogen, Nitrate+Nitrite as N, mg/L	0.8	<0.1	<0.1				<0.05	<0.05	0.02	0.19
Aluminum, mg/L		<0.1	1.1				<0.1	0.4	0.4	0.40
Arsenic, mg/L	0.002	0.002	0.006				0.002	0.002	0.008	0.004
Barium, mg/L	0.5	0.5	0.1				0.2	0.3	0.1	0.3
Boron, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	43	13	7				12	18	9	17
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01	<0.01				0.01	<0.01	<0.01	<0.01
Iron, mg/L	0.07	0.07	0.6				0.05	0.26	0.22	0.21
Lead, mg/L	<0.05	<0.001	<0.001				<0.001	<0.001	<0.001	<0.05
Magnesium, mg/L	56	35	14				9	13	23	25
Manganese, mg/L	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001

Table 3.4.2-5 Water Quality Data from MRSW-1

			MRSW-1							
Parameters	**11/3/06**	**3/23/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Potassium, mg/L	17	11	7				7	5	11	10
Selenium, mg/L	<0.001	<0.001	<0.0002				<0.001	<0.001	<0.001	<0.001
Silica, mg/L	4.7	2.3	8.4				4.3	5.2	6.5	5.2
Sodium, mg/L	355	243	133				43	68	186	171
Uranium, mg/L	0.0052	0.0007	0.0006				0.0003	<0.0003	0.0004	0.0013
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	<0.01	<0.01	<0.01				<0.01	0.03	<0.01	0.01
Iron, TOTAL mg/L	0.26	0.38	1.31				0.36	1.62	0.96	0.82
Manganese, TOTAL mg/L	0.01	0.02	0.04				<0.01	0.03	0.03	0.02
Lead 210, suspended pci/L	<2.0	<1.0	<1.0				<3.9	<5.7	<3.8	<2.7
Polonium 210 suspended, pci/L	<2.0	<1.0	<1.0				<0.5	<0.4	<0.5	<1.0
Radium 226 suspended, pci/L	<0.4	<0.2	<0.2				<0.3	<0.2	<0.09	<0.2
Thorium 230 suspended, pci/L	<0.4	<0.2	<0.2				<0.3	<0.3	<0.05	<0.2
Uranium suspended, pci/L	<0.0003	<0.0003	<0.0003				0.0003	0.0004	<0.0003	0.0003

* Anomalous value considered analytical error.

Table 3.4.2-6 Water Quality Data from MRSW-2

						MRSW-2					
Parameters	**10/25/06**	**3/23/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	1010	748	532				283	180	107	551
Carbonate as CO3, mg/L	52	22	33				6	6	68	24
Chloride, mg/L	9	3	2				2	<1	1	3
Conductivity, umhos/cm	1520	1120	870				448	274	401	772
Fluoride, mg/L	0.7	0.6	0.4				0.2	0.1	0.2	0.4
pH, s.u.	8.96	8.80	9.13				8.61	8.59	10.0	9.01
Solids, Total Dissolved TDS @ 180 C, mg/L	996	672	520			119	308	167	279	434
Solids, Total Suspended TSS @ 105 C, mg/L		20		8	24	14	5	8	57	19
Sulfate, mg/L	1	<1.0	10				3	1	5	4
Turbidity, NTU				10.1	14.3	6.7	5.1	4.9	29.7	11.8
Gross Alpha, pci/L	3.0	1.5					<2.0	4.4	<2.2	2.6
Gross Beta, pci/L	14.0	9.7					6.6	4.9	6.1	8.3
Lead 210, pci/L	<1.0	<1.0	<1.0				<2.8	<3.1	<2.2	<1.9
Polonium 210, pci/L	<1.0	<1.0	<1.0				0.6	<0.5	<0.4	<1.0
Radium 226, pci/L	<0.2	<0.2	<0.2				<0.12	<0.12	0.28	0.2
Radium 228, pci/L	<1.0	<1.0	<1.0				<1.7	<1.2	<1.1	<1.2
Thorium 230, pci/L	<0.2	<0.2	<0.2				<0.2	<0.3	<0.3	<0.2
Nitrogen, Ammonia as N, mg/L	0.17	<0.05	<0.05				<0.05	<0.05	0.06	0.07
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1	<0.1				<0.05	<0.05	0.02	0.07
Aluminum, mg/L		<0.1	0.1				<0.1	<0.1	0.4	0.2
Arsenic, mg/L	0.002	0.002	0.003				0.003	<0.001	0.006	0.003
Barium, mg/L	0.8	0.5	0.1				0.2	0.2	<0.1	0.3
Boron, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	18	22	11				15	15	9	15
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	0.01	0.05	0.01				0.01	<0.01	<0.01	0.02
Iron, mg/L	0.07	0.15	0.11				0.08	0.06	0.29	0.13
Lead, mg/L	<0.05	0.007	0.001				0.003	<0.001	<0.001	0.011
Magnesium, mg/L	43	28	20				10	7	7	19
Manganese, mg/L	0.01	0.02	0.01				<0.01	<0.01	<0.01	0.01

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Table 3.4.2-6 Water Quality Data from MRSW-2

			MRSW-2							
Parameters	**10/25/06**	**3/23/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Potassium, mg/L	14	10	7				9	4	7	9
Selenium, mg/L	<0.001	<0.001	<0.002				<0.001	<0.001	<0.001	0.001
Silica, mg/L	3.8	3.0	0.9				5.9	5.7	7.5	4.5
Sodium, mg/L	349	208	157				75	47	67	151
Uranium, mg/L	0.0003	0.0005	0.0006				<0.0003	<0.0003	0.0004	0.0004
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	0.01	0.02	0.02				<0.01	0.02	<0.01	0.02
Iron, TOTAL mg/L	0.07	0.04	0.36				0.20	0.03	2.4	0.52
Manganese, TOTAL mg/L	0.01	0.01	0.02				0.01	0.01	0.04	0.02
Lead 210, TOTAL pci/L	<1.0	<1.0	<1.0				<4.1	5.8	<4.0	2.8
Polonium 210 suspended, pci/L	<1.0	<1.0	<1.0				<0.5	<0.5	<0.3	<1.0
Radium 226 suspended, pci/L	<0.2	<0.2	<0.2				<0.4	<0.2	<0.1	<0.2
Thorium 230 suspended, pci/L	<0.2	<0.2	<0.2				<0.3	<0.2	<0.05	<0.2
Uranium suspended, pci/L	<0.0003	<0.0003	<0.0003				<0.0003	<0.0003	<0.0003	<0.0003

Table 3.4.2-7 Water Quality Data from MRSW-3

							MRSW-3			
Parameters	**10/25/06**	**3/22/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	358	92	33				69	71	15	125
Carbonate as CO3, mg/L	8	9	4				<1	<1	11	5
Chloride, mg/L	11	2	<1.0				<1	<1	5	3
Conductivity, umhos/cm	928	544	609				168	125	1260	475
Fluoride, mg/L	0.9	0.2	0.4				<0.1	<0.1	0.2	0.3
pH, s.u.	8.60	9.25	9.45				7.82	7.99	10.5	8.62
Solids, Total Dissolved TDS @ 180 C, mg/L	560	5.5	414			96	161	95	924	221
Solids, Total Suspended TSS @ 105 C, mg/L				5	118	10	<1	<4	8	28
Sulfate, mg/L	214	189	254				20	14	562	138
Turbidity, NTU		5.5		4.2	16.2	8.2	3.0	5.6	6.2	
Gross Alpha, pci/L	12.7	7.9					2.1	3.9	4.8	6.3
Gross Beta, pci/L	13.5	9.7					3.6	5.6	7.8	8.1
Lead 210, pci/L	<1.0	<1.0	<1.0				<2.8	<3.1	<2.2	<1.9
Polonium 210, pci/L	<1.0	<1.0	<1.0				<0.6	<0.5	<0.7	<1.0
Radium 226, pci/L	<0.2	<0.2	<0.2				<0.12	<0.11	0.47	<0.2
Radium 228, pci/L	<1.0	<1.0	1.9				<1.4	<1.1	<1.3	1.0
Thorium 230, pci/L	<0.2	<0.2	<0.2				<0.3	<0.4	<0.5	<0.3
Nitrogen, Ammonia as N, mg/L	0.09	0.06	0.09				<0.05	<0.05	<0.05	0.07
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1	<0.1				<0.05	<0.05	<0.05	<0.1
Aluminum, mg/L		<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Arsenic, mg/L	0.002	0.002	0.003				<0.001	<0.001	0.003	0.002
Barium, mg/L	0.1	<0.1	<0.1				<0.1	<0.1	0.1	0.1
Boron, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	42	60	48				18	124	111	58
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
Iron, mg/L	0.16	<0.03	0.05				0.07	0.10	<0.03	0.08
Lead, mg/L	<0.05	<0.001	<0.001				<0.001	<0.001	<0.001	<0.05
Magnesium, mg/L	18	13	18				4	34	20	17
Manganese, mg/L	<0.01	<0.01	<0.01				0.01	<0.01	<0.01	<0.01

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Table 3.4.2-7 Water Quality Data from MRSW-3

			MRSW-3							
Parameters	**10/25/06**	**3/22/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Potassium, mg/L	8	8	4				8	4	10	6
Selenium, mg/L	<0.001	0.001	<0.001				<0.001	<0.001	<0.001	0.001
Silica, mg/L	2.9	8.3	3.2				3.2	4.2	0.2	4.4
Sodium, mg/L	173	32	46				7	17	113	55
Uranium, mg/L	0.0130	0.0119	0.0043				0.0014	0.0013	0.0028	0.0064
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
Iron, TOTAL mg/L	0.33	0.10					0.11	0.30	0.39	0.21
Manganese, TOTAL mg/L	0.01	0.03					0.03	<0.01	0.04	0.02
Lead 210, suspended pci/L	<1.0	<1.0	<1.0				<4.0	6.0	<3.9	2.0
Polonium 210 suspended, pci/L	<1.0	<1.0	<1.0				<0.4	<0.5	<0.3	<1.0
Radium 226 suspended, pci/L	<0.2	<0.2	<0.2				<0.4	<0.2	<0.1	<0.2
Thorium 230 suspended, pci/L	<0.2	<0.2	<0.2				<0.3	<0.1	<0.04	<0.2
Uranium suspended, pci/L	<0.0003	<0.0003	<0.0003				<0.0003	<0.0003	0.0006	<0.0003

Table 3.4.2-8 Water Quality Data from MRSW-4

							MRSW-4			
Parameters	**10/25/06**	**3/22/07**	**6/13/07**	**7/8/08**	**10/23/08**	**2/9/08**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	363	156	77				119	238	124	180
Carbonate as CO3, mg/L	24	23	15				<1	<1	67	22
Chloride, mg/L	23	7	2				2	6	8	8
Conductivity, umhos/cm	1500	792	968				324	700	811	849
Fluoride, mg/L	0.6	0.5	0.4				0.1	0.1	0.2	0.4
pH, s.u.	9.06	9.41	9.63				8.00	8.22	9.82	9.02
Solids, Total Dissolved TDS @ 180 C, mg/L	984	504	644			170	277	447	840	644
Solids, Total Suspended TSS @ 105 C, mg/l		17.0		6	5	10	2	7	16	9
Sulfate, mg/L	461	230	360				72	175	175	246
Turbidity, NTU				2.5	6.9	9.6	4.5	3.2	3.7	5.1
Gross Alpha, pci/L	5.6	2.5					1.9	7.0	3.3	4.1
Gross Beta, pci/L	11.9	7.6					6.6	7.6	7.6	8.3
Lead 210, pci/L	<1.0	<1.0	<1.0				<2.8	<3.1	<2.2	<1.9
Polonium 210, pci/L	<1.0	<1.0	<1.0				4.6	<0.7	<0.7	1.5
Radium 226, pci/L	<0.2	<0.2	<0.2				<0.13	<0.11	0.22	0.2
Radium 228, pci/L	<1.0	<1.0	<1.0				<1.6	<1.1	<1.1	<1.1
Thorium 230, pci/L	<0.2	<0.2	<0.2				<0.3	<0.3	<0.3	<0.3
Nitrogen, Ammonia as N, mg/L	0.52	0.20	0.09				<0.05	<0.05	<0.05	0.16
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1	<0.1				<0.05	<0.05	0.02	0.07
Aluminum, mg/L		<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Arsenic, mg/L	0.006	0.006	0.005				0.003	0.002	0.007	0.005
Barium, mg/L	0.2	0.1	0.1				<0.1	0.1	<0.1	0.1
Boron, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	24	26	27				24	56	18	29
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01	<0.01				<0.01	0.34	<0.01	0.07
Iron, mg/L	0.32	0.03	0.03				0.19	0.06	0.04	0.11
Lead, mg/L	<0.05	<0.001	<0.001				<0.001	0.075	<0.001	0.022
Magnesium, mg/L	25	18	24				9	22	29	21
Manganese, mg/L	0.02	0.02	0.02				0.08	<0.01	0.04	0.03
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1

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Table 3.4.2-8 Water Quality Data from MRSW-4

				MRSW-4						
Parameters	**10/25/06**	**3/27/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/08**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Potassium, mg/L	10	8	7				10	8	12	9
Selenium, mg/L	<0.001	<0.001	<0.001				<0.001	0.001	<0.001	0.001
Silica, mg/L	3.8	12.8	3.7				7.9	14.4	0.5	7.2
Sodium, mg/L	320	114	133				31	62	114	129
Uranium, mg/L	0.0069	0.0034	0.0028				0.0016	0.0036	0.0024	0.0035
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	<0.01	<0.01	<0.01				0.02	1.72	<0.01	0.30
Iron, TOTAL mg/L	0.40	0.07	0.11				0.31	0.28	0.11	0.21
Manganese, TOTAL mg/L	0.02	0.12	0.05				0.15	0.07	0.10	0.09
Lead 210, suspended pci/L	<1.0	<1.0	<1.0				<4.1	7.1	<3.8	3.0
Polonium 210 suspended, pci/L	<1.0	<1.0	<1.0				<0.5	<0.5	<0.3	<1.0
Radium 226 suspended, pci/L	<0.2	<0.2	<0.2				<0.2	<0.2	<0.1	<0.2
Thorium 230 suspended, pci/L	<0.2	<0.2	<0.2				<0.3	<0.2	<0.05	<0.2
Uranium suspended, pci/L	<0.0003	<0.0003	<0.0003				0.0004	<0.0003	<0.0003	0.0003

Table 3.4.2-9 Water Quality Data from MRSW-5

			MRSW-5							
Parameters	**11/3/06**	**3/22/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	1410	924	858	DRY	DRY		240	233	DRY	733
Carbonate as CO3, mg/L	155	24	11				<1	12		41
Chloride, mg/L	6	7	10				<1	4		6
Conductivity, umhos/cm	2560	1450	1520				397	638		1313
Fluoride, mg/L	1.2	0.5	0.4				0.2	0.2		0.5
pH, s.u.	9.29	8.66	8.46				8.35	8.51		8.65
Solids, Total Dissolved TDS @ 180 C, mg/L	1590	890	998			172	270	384		717
Solids, Total Suspended TSS @ 105 C, mg/l						10	88	68		55
Sulfate, mg/L	9	20	157				5	134		65
Turbidity, NTU						7.4	41.4	51.9		34
Gross Alpha, pci/L	11.0	2.4					<1.8	7.8		5.6
Gross Beta, pci/L	32.7	11.0					4.0	4.0		12.9
Lead 210, pci/L	9.9	<1.0	<1.0				<2.8	<3.1		3.6
Polonium 210, pci/L	<1.0	<1.0	<1.0				<0.4	<0.7		<1.0
Radium 226, pci/L	<0.2	1.5	2.3				<0.12	0.15		0.85
Radium 228, pci/L	<0.1	<1.0	<1.0				<1.9	<1.2		<1.0
Thorium 230, pci/L	<0.2	<0.2	<0.2				<0.8	<0.2		<0.3
Nitrogen, Ammonia as N, mg/L	0.27	0.15	0.19				<0.05	<0.05		0.14
Nitrogen, Nitrate+Nitrite as N, mg/L	0.9	<0.1	<0.1				<0.05	<0.05		0.24
Aluminum, mg/L		<0.1	<0.1				<0.1	<0.1		<0.1
Arsenic, mg/L	0.008	0.003	0.004				0.004	0.002		0.004
Barium, mg/L	0.5	0.5	0.3				0.2	0.4		0.4
Boron, mg/L	0.1	<0.1	<0.1				<0.1	<0.1		0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005		<0.005
Calcium, mg/L	9	45	41				26	50		32
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05		<0.05
Copper, mg/L	<0.01	<0.01	<0.01				<0.01	0.05		<0.01
Iron, mg/L	0.92	0.05	0.08				0.06	0.09		0.24
Lead, mg/L	<0.05	<0.001	<0.001				<0.001	0.007		<0.05
Magnesium, mg/L	73	39	50				10	26		40
Manganese, mg/L	0.02	<0.01	0.03				0.14	<0.01		0.04
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001		<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1		<0.1
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05		<0.05

Table 3.4.2-9 Water Quality Data from MRSW-5

			MRSW-5							
Parameters	**11/3/06**	**3/22/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Potassium, mg/L	22	12	13				7	5		12
Selenium, mg/L	<0.001	<0.001	0.004	DRY	DRY		<0.001	<0.001	DRY	0.002
Silica, mg/L	9.3	5.2	8.1				13.0	7		8.5
Sodium, mg/L	559	255	230				41	55		228
Uranium, mg/L	0.0010	0.0029	0.0027				0.0031	0.0026		0.0025
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1		<0.1
Zinc, mg/L	<0.01	<0.01	0.01				0.01	0.12		0.03
Iron, TOTAL mg/L	1.11	0.11	0.12				1.65	2.72		1.14
Manganese, TOTAL mg/L	0.05	0.01	0.06				0.33	0.14		0.12
Lead 210, suspended pci/L	<2.0	<1.0	<1.0				<4.8	<5.0		<2.6
Polonium 210 suspended, pci/L	<2.0	<1.0	<1.0				1.5	<0.5		1.2
Radium 226 suspended, pci/L	<0.4	<0.2	2.3				<0.4	0.3		0.7
Thorium 230 suspended, pci/L	<0.4	<0.2	<0.2				<0.3	<0.2		<0.3
Uranium suspended, pci/L	<0.0003	<0.0003	<0.0003				<0.0003	<0.0003		<0.0003

Table 3.4.2-10 Water Quality Data from MRSW-6

			MRSW-6						
Parameters	**3/22/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Bicarbonate as HCO3, mg/L	351	563		DRY		804	635	752	621
Carbonate as CO3, mg/L	7	114				12	35	240	82
Chloride, mg/L	2	3				4	4	8	4
Conductivity, umhos/cm	538	1140				1240	1020	1850	1158
Fluoride, mg/L	0.3	0.7				0.4	0.4	0.6	0.5
pH, s.u.	8.52	9.64				8.57	8.65	9.54	8.98
Solids, Total Dissolved TDS @ 180 C, mg/L	326	754			78	740	591	1250	623
Solids, Total Suspended TSS @ 105 C, mg/L	46		6		10	14	10	128	36
Sulfate, mg/L	10	2				2	1	49	13
Turbidity, NTU			4.2		5.9	6.8	2.4	127	29.3
Gross Alpha, pci/L	1.1					<4.2	9.8	<8.6	5.9
Gross Beta, pci/L	6.9					7.1	5.1	14.3	8.4
Lead 210, pci/L	<1.0	<1.0				<5.6	<3.1	<2.3	<2.6
Polonium 210, pci/L	<1.0	<1.0				<0.7	<0.7	<0.6	<1.0
Radium 226, pci/L	<0.2	1.5				0.14	0.16	<0.18	0.43
Radium 228, pci/L	<1.0	<1.0				<2.0	<1.2	<1.1	<1.3
Thorium 230, pci/L	<0.2	<0.2				<0.3	<0.2	<0.6	<0.3
Nitrogen, Ammonia as N, mg/L	0.13	0.15				<0.05	<0.05	<0.05	0.09
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1				<0.05	<0.05	0.02	<0.1
Aluminum, mg/L	0.4	1				<0.1	<0.1	0.3	0.4
Arsenic, mg/L	0.002	0.006				0.002	0.002	0.003	0.003
Barium, mg/L	0.4	0.2				1.2	0.6	0.3	0.54
Boron, mg/L	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	26	9				55	29	15	31
Chromium, mg/L	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01
Iron, mg/L	0.21	0.44				<0.03	<0.03	0.14	0.17
Lead, mg/L	<0.001	0.001				<0.001	<0.001	<0.001	0.001
Magnesium, mg/L	10	15				26	22	46	24
Manganese, mg/L	<0.01	0.02				<0.01	<0.01	<0.01	0.02
Mercury, mg/L	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05

Table 3.4.2-10 Water Quality Data from MRSW-6

		MRSW-6							
Parameters	**3/22/07**	**6/15/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Potassium, mg/L	7	6		DRY		11	8	17	10
Selenium, mg/L	<0.001	<0.002				<0.001	<0.001	<0.001	<0.002
Silica, mg/L	9.5	5.6				17.7	18.4	10.4	12.3
Sodium, mg/L	77	232				198	167	436	222
Uranium, mg/L	<0.0003	0.0003				0.0005	<0.0003	<0.0003	0.0003
Vanadium, mg/L	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	0.01	0.01				<0.01	0.06	<0.01	0.02
Iron, TOTAL mg/L	0.51	0.72				0.19	0.21	3.90	1.11
Manganese, TOTAL mg/L	0.02	0.04				<0.01	0.01	0.05	0.03
Lead 210, suspended pci/L	<1.0	<1.0				<4.1	<3.9	<3.6	<2.7
Polonium 210 suspended, pci/L	<1.0	<1.0				<0.4	<0.2	0.7	<1.0
Radium 226 suspended, pci/L	<0.2	0.4				<0.3	<0.2	0.2	0.3
Thorium 230 suspended, pci/L	<0.2	<0.2				<0.3	<0.2	<0.08	<0.2
Uranium suspended, pci/L	<0.0003	<0.0003				0.0005	<0.0003	<0.0003	0.0003

Water present at 10/25/06 sampling event however to muddy to get access to pond to collect sample.

Table 3.4.2-11 Water Quality Data from MRSW-7

				MRSW-7						
Parameters	**10/25/06**	**3/23/07**	**6/13/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Bicarbonate as HCO3, mg/L	809	DRY	520				DRY	DRY	DRY	665
Carbonate as CO3, mg/L	12		22							17
Chloride, mg/L	9		2							6
Conductivity, umhos/cm	1120		837							979
Fluoride, mg/L	0.5		0.5							0.5
pH, s.u.	8.42		8.96							9
Solids, Total Dissolved TDS @ 180 C, mg/L	706		586			508				600
Solids, Total Suspended TSS @ 105 C, mg/L				13	7	42				21
Sulfate, mg/L	23		3							13
Turbidity, NTU				2.3	1.6	7.6				3.8
Gross Alpha, pci/L	5.4									5.4
Gross Beta, pci/L	13.1									13.1
Lead 210, pci/L	<1.0		<1.0							<1.0
Polonium 210, pci/L	<1.0		<1.0							<1.0
Radium 226, pci/L	<0.2		<0.2							<0.2
Radium 228, pci/L	<1.0		<1.0							<1.0
Thorium 230, pci/L	<0.2		<0.2							<0.2
Nitrogen, Ammonia as N, mg/L	0.10		0.08							0.09
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1		<0.1							<0.1
Aluminum, mg/L			0.5							0.3
Arsenic, mg/L	0.003		0.004							0.004
Barium, mg/L	0.5		0.3							0.4
Boron, mg/L	<0.1		<1.0							<1.0
Cadmium, mg/L	<0.005		<0.005							<0.005
Calcium, mg/L	27		15							21
Chromium, mg/L	<0.05		<0.05							<0.05
Copper, mg/L	<0.01		<0.01							<0.01
Iron, mg/L	0.70		0.59							0.65
Lead, mg/L	<0.05		<0.001							<0.001
Magnesium, mg/L	18		10							14
Manganese, mg/L	0.02		0.01							0.02
Mercury, mg/L	<0.001		<0.001							<0.001
Molybdenum, mg/L	<0.1		<0.1							<0.1
Nickel, mg/L	<0.05		<0.05							<0.05

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Table 3.4.2-11 Water Quality Data from MRSW-7

				MRSW-7						
Parameters	**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Selenium, mg/L	<0.001	DRY	<0.001				DRY	DRY	DRY	<0.001
Potassium, mg/L	10		7							9
Silica, mg/L	8.4		7.5							8.0
Sodium, mg/L	263		173							218
Uranium, mg/L	0.0006		0.0004							0.0005
Vanadium, mg/L	<0.1		<0.1							<0.1
Zinc, mg/L	<0.01		<0.01							<0.01
Iron, TOTAL mg/L	0.64		0.73							0.69
Manganese, TOTAL mg/L	<0.01		0.04							0.03
Lead 210, suspended pci/L	<1.0		<1.0							<1.0
Polonium 210 suspended, pci/L	<1.0		<1.0							<1.0
Radium 226 suspended, pci/L	<0.2		<0.2							<0.2
Thorium 230 suspended, pci/L	<0.2		<0.2							<0.2
Uranium suspended, pci/L	0.0007		<0.0003							<0.0003

Table 3.4.2-12 Water Quality Data from MRSW-8

			MRSW-8							
Parameters	**10/25/06**	**3/23/07**	**6/13/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/9/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	420	458	327		DRY		458	327	225	369
Carbonate as CO3, mg/L	1670	44	26				7	21	170	323
Chloride, mg/L	21	2	<1.0				<1	<1	2	5
Conductivity, umhos/cm	3220	796	569				710	611	918	1137
Fluoride, mg/L	2.2	0.6	0.4				0.4	0.3	0.6	0.8
pH, s.u.	9.65	9.32	9.23				8.59	8.68	10.10	9.26
Solids, Total Dissolved TDS @ 180 C, mg/L	2190	508	354			266	493	345	1040	853
Solids, Total Suspended TSS @ 105 C, mg/L		24		84		34	12	53	259	78
Sulfate, mg/L	10	<1.0	14				4	16	18	11
Turbidity, NTU				155		13.7	12.6	35.9	540	151.4
Gross Alpha, pci/L	4.3	2.4					<3.0	5.1	21.7	7.3
Gross Beta, pci/L	20.9	10.1					7.2	5.1	21.5	13.0
Lead 210, pci/L	<1.0	<1.0	<1.0				<2.8	<4.1	<2.2	<2.1
Polonium 210, pci/L	<1.0	<1.0	<1.0				<0.6	<0.7	1.1	<1.0
Radium 226, pci/L	<0.2	<0.2	<0.2				0.12	0.11	1.4	0.36
Radium 228, pci/L	<1.0	<1.0	<1.0				<1.5	<1	<1.2	<1.0
Thorium 230, pci/L	<0.2	<0.2	<0.2				<0.2	<0.2	0.7	0.3
Nitrogen, Ammonia as N, mg/L	0.86	0.09	<0.05				0.13	<0.05	<0.05	0.21
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1	<0.1				0.08	<0.05	0.03	0.08
Aluminum, mg/L		0.1	0.2				<0.1	<0.1	0.6	0.2
Arsenic, mg/L	0.025	0.005	0.004				0.003	0.002	0.019	0.010
Barium, mg/L	0.6	0.1	0.1				0.2	0.1	<0.1	0.2
Boron, mg/L	0.1	<0.1	<0.1				<0.1	<0.1	<0.1	0.1
Cadmium, mg/L	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	6	13	11				20	17	9	13
Chromium, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01	<0.01				<0.01	<0.01	0.01	0.01
Iron, mg/L	0.48	0.09	0.39				0.08	0.09	0.78	0.32
Lead, mg/L	<0.05	<0.001	<0.001				<0.001	0.001	0.002	0.009
Magnesium, mg/L	53	15	11				12	9	9	18
Manganese, mg/L	0.02	<0.01	<0.01				<0.01	<0.01	0.02	0.01
Mercury, mg/L	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05	<0.05				<0.05	<0.05	<0.05	<0.05

Table 3.4.2-12 Water Quality Data from MRSW-8

				MRSW-8						
Parameters	**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Potassium, mg/L	19	10	7				9	7	9	10
Selenium, mg/L	0.002	0.001	0.001		DRY		<0.001	<0.001	<0.001	0.001
Silica, mg/L	6.1	7.1	3.7				7.8	5.5	7.5	6.3
Sodium, mg/L	842	158	106				121	97	198	254
Uranium, mg/L	0.0040	0.0009	0.001				0.0006	<0.0003	0.0014	0.0014
Vanadium, mg/L	<0.1	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	<0.01	<0.01	<0.01				0.11	0.05	0.01	0.03
Iron, TOTAL mg/L	0.20	0.86	0.063				0.58	1.69	24.1	4.58
Manganese, TOTAL mg/L	<0.01	0.01	0.02				0.02	0.02	0.27	0.09
Lead 210, suspended pci/L	6.3	<1.0	<1.0				1.9	<3.9	<4.3	3.1
Polonium 210 suspended, pci/L	<1.0	<1.0	<1.0				<0.9	<0.3	0.8	<1.0
Radium 226 suspended, pci/L	<0.2	<0.2	<0.2				<0.5	<0.1	0.5	<0.2
Thorium 230 suspended, pci/L	<0.2	<0.2	<0.2				<0.4	<0.2	0.3	<0.2
Uranium suspended, pci/L	0.0004	<0.0003	<0.0003				0.0004	0.0003	0.0004	0.0004

Table 3.4.2-13 Water Quality Data from MRSW-9

						MRSW-9			
Parameters	**3/22/07**	**6/13/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L	131	67		DRY		45	71	DRY	79
Carbonate as CO3, mg/L	15	12				<1	<1		7
Chloride, mg/L	2.79	<1.0				<1	<1		1
Conductivity, umhos/cm	259	148				75	96		145
Fluoride, mg/L	0.2	0.2				<0.1	<0.1		0.2
pH, s.u.	9.32	9.16				7.39	8.94		9
Solids, Total Dissolved TDS @ 180 C, mg/L	148	96			88	74	64		94
Solids, Total Suspended TSS @ 105 C, mg/L	8		67		12	2	<4		
Sulfate, mg/L	2	5				3	5		4
Turbidity, NTU			99.4		7.5	4.6	6.0		29.4
Gross Alpha, pci/L	1.7					0.3	3.7		1.9
Gross Beta, pci/L	3.9					2.5	2.8		3.1
Lead 210, pci/L	8.6	<1.0				<2.8	<3.1		3.9
Polonium 210, pci/L	<1.0	<1.0				<0.7	<0.6		<1.0
Radium 226, pci/L	<0.2	<0.2				<0.13	<0.17		<0.2
Radium 228, pci/L	<1.0	<1.0				<1.7	<1.3		<1.3
Thorium 230, pci/L	<0.2	<0.2				<0.4	<0.3		<0.3
Nitrogen, Ammonia as N, mg/L	<0.05	<0.05				<0.05	<0.05		<0.05
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.1	<0.1				<0.05	<0.05		<0.1
Aluminum, mg/L	<0.1	0.3				<0.1	<0.1		0.2
Arsenic, mg/L	0.002	0.002				0.001	0.001		0.002
Barium, mg/L	<0.1	<0.1				<0.1	<0.1		<0.1
Boron, mg/L	<0.1	<0.1				<0.1	<0.1		<0.1
Cadmium, mg/L	<0.005	<0.005				<0.005	<0.005		<0.005
Calcium, mg/L	13	15				6	12		12
Chromium, mg/L	<0.05	<0.05				<0.05	<0.05		<0.05
Copper, mg/L	<0.01	<0.01				<0.01	<0.01		<0.01
Iron, mg/L	0.03	0.19				<0.03	0.03		0.07
Lead, mg/L	<0.001	<0.001				<0.001	<0.001		<0.001
Magnesium, mg/L	5	4				2	3		4
Manganese, mg/L	<0.01	<0.01				<0.01	<0.01		<0.01
Mercury, mg/L	<0.001	<0.001				<0.001	<0.001		<0.001
Molybdenum, mg/L	<0.1	<0.1				<0.1	<0.1		<0.1
Nickel, mg/L	<0.05	<0.05				<0.05	<0.05		<0.05

Table 3.4.2-13 Water Quality Data from MRSW-9

				MRSW-9					
Parameters	**3/21/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Potassium, mg/L	6	3		DRY		5	3	DRY	4
Selenium, mg/L	<0.001	<0.001				<0.001	<0.001		<0.001
Silica, mg/L	6.9	3.4				3.3	4.4		4.5
Sodium, mg/L	36	8				4	8		14
Uranium, mg/L	0.0016	0.0018				<0.0003	0.0006		0.0011
Vanadium, mg/L	<0.1	<0.1				<0.1	<0.1		<0.1
Zinc, mg/L	<0.01	<0.01				<0.01	<0.01		<0.01
Iron, TOTAL mg/L	0.08	0.19				0.26	0.28		0.21
Manganese, TOTAL mg/L	<0.01	<0.01				0.01	<0.01		<0.01
Lead 210, suspended pci/L	<1.0	<1.0				<4.1	<3.8		<2.5
Polonium 210 suspended, pci/L	<1.0	<1.0				<0.3	<0.4		<1.0
Radium 226 suspended, pci/L	<0.2	<0.2				<0.4	<0.1		<0.2
Thorium 230 suspended, pci/L	<0.2	<0.2				<0.2	<0.2		<0.2
Uranium suspended, pci/L	<0.0003	<0.0003				<0.0003	0.0005		<0.0004

Table 3.4.2-14 Water Quality Data from MRSW-10

							MRSW-10				
Parameters				**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/27/09**	**Average**
Bicarbonate as HCO3, mg/L				DRY	DRY	DRY		DRY		DRY	DRY	DRY	
Carbonate as CO3, mg/L													
Chloride, mg/L													
Conductivity, umhos/cm													
Fluoride, mg/L													
pH, s.u.													
Solids, Total Dissolved TDS @ 180 C, mg/L									85				85
Solids, Total Suspended TSS @ 105 C, mg/L							160		14				87
Sulfate, mg/L													
Turbidity, NTU							130		7.8				68.9
Gross Alpha, pci/L													
Gross Beta, pci/L													
Lead 210, pci/L													
Polonium 210, pci/L													
Radium 226, pci/L													
Radium 228, pci/L													
Thorium 230, pci/L													
Nitrogen, Ammonia as N, mg/L													
Nitrogen, Nitrate+Nitrite as N, mg/L													
Aluminum, mg/L													
Arsenic, mg/L													
Barium, mg/L													
Boron, mg/L													
Cadmium, mg/L													
Calcium, mg/L													
Chromium, mg/L													
Copper, mg/L													
Iron, mg/L													
Lead, mg/L													
Magnesium, mg/L													
Manganese, mg/L													
Mercury, mg/L													
Molybdenum, mg/L													
Nickel, mg/L													

Table 3.4.2-14 Water Quality Data from MRSW-10

					MRSW-10					
Parameters	**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**4/27/09**	**Average**
Potassium, mg/L										
Selenium, mg/L										
Silica, mg/L										
Sodium, mg/L	DRY	DRY	DRY		DRY		DRY	DRY	DRY	
Uranium, mg/L										
Vanadium, mg/L										
Zinc, mg/L										
Iron, TOTAL mg/L										
Manganese, TOTAL mg/L										
Lead 210, suspended pci/L										
Polonium 210 suspended, pci/L										
Radium 226 suspended, pci/L										
Thorium 230 suspended, pci/L										
Uranium suspended, pci/L										

Table 3.4.2-15 Water Quality Data from MRSW-11

							MRSW-11			
Parameters	**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Bicarbonate as HCO3, mg/L	DRY	DRY	DRY	DRY	DRY		67	147	492	235
Carbonate as CO3, mg/L							<1	<1	<5	2
Chloride, mg/L							<1	<1	3	2
Conductivity, umhos/cm							131	211	742	361
Fluoride, mg/L							<0.1	<0.1	0.1	0.1
pH, s.u.							7.77	7.90	7.99	7.89
Solids, Total Dissolved TDS @ 180 C, mg/L						134	136	159	532	240
Solids, Total Suspended TSS @ 105 C, mg/L						28	8	6	6	12
Sulfate, mg/L							3	2	1	2
Turbidity, NTU						13.6	2.9	1.6	12.3	7.6
Gross Alpha, pci/L							0.6	5.7	0.02	2.1
Gross Beta, pci/L							7.6	9.3	20.5	12.4
Lead 210, pci/L							<2.8	<5.6	0.7	3.0
Polonium 210, pci/L							0.3	<0.6	0.4	0.4
Radium 226, pci/L							<0.12	<0.17	0.2	<0.2
Radium 228, pci/L							<1.5	<1.3	0.3	<1.0
Thorium 230, pci/L							<0.4	<0.2	0.03	<0.2
Nitrogen, Ammonia as N, mg/L							<0.05	<0.05	0.05	0.05
Nitrogen, Nitrate+Nitrite as N, mg/L							<0.05	<0.05	0.02	0.04
Aluminum, mg/L							<0.1	<0.1	<0.1	<0.1
Arsenic, mg/L							<0.001	0.001	0.007	0.003
Barium, mg/L							<0.1	<0.1	<0.1	<0.1
Boron, mg/L							<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L							<0.005	<0.005	<0.005	<0.005
Calcium, mg/L							13	35	110	53
Chromium, mg/L							<0.05	<0.05	<0.05	<0.05
Copper, mg/L							<0.01	0.01	<0.01	<0.01
Iron, mg/L							0.04	<0.03	0.11	0.06
Lead, mg/L							<0.001	0.004	<0.001	<0.002
Magnesium, mg/L							3	5	29	12
Manganese, mg/L							<0.01	<0.01	0.75	<0.26
Mercury, mg/L							<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L							<0.1	<0.1	<0.1	<0.1

Table 3.4.2-15 Water Quality Data from MRSW-11

					MRSW-11					
Parameters	**10/25/06**	**3/23/07**	**6/14/07**	**7/8/08**	**10/23/08**	**2/9/09**	**3/11/09**	**4/22/09**	**7/23/09**	**Average**
Nickel, mg/L							<0.05	<0.05	<0.05	<0.05
Potassium, mg/L							9	9	25	14
Selenium, mg/L	DRY	DRY	DRY	DRY	DRY		<0.001	<0.001	<0.001	<0.001
Silica, mg/L							6.6	15.4	28.8	17
Sodium, mg/L							2	4	6	4
Uranium, mg/L							<0.0003	<0.0003	0.0005	0.0004
Vanadium, mg/L							<0.1	<0.1	<0.1	<0.1
Zinc, mg/L							<0.01	0.22	<0.01	0.08
Iron, TOTAL mg/L							0.11	0.06	1.62	0.60
Manganese, TOTAL mg/L							0.02	0.05	0.93	0.33
Lead 210, suspended pci/L							<4.2	<3.8	<3.6	<3.8
Polonium 210 suspended, pci/L							<0.4	<0.4	0.3	<1.0
Radium 226 suspended, pci/L							<0.4	<0.1	0.07	<0.2
Thorium 230 suspended, pci/L							<0.2	<0.1	0.07	<0.2
Uranium suspended, pci/L							<0.0003	<0.0003	<0.0003	<0.0003

Table 3.4.2-16 Water Quality Data from MRSW-12

			MRSW-12			
Parameters	**7/8/2008**	**10/23/2008**	**2/9/2009**	**4/22/2009**	**7/23/09**	**Average**
Bicarbonate as HCO3, mg/L	101	524	43	61	561	258
Carbonate as CO3, mg/L	<1	41	<1	<1	70	23
Chloride, mg/L	<1	9	<1	1	15	5
Conductivity, umhos/cm	182	935	38	318	1090	513
Fluoride, mg/L	<0.1	0.7	<0.1	<0.1	0.9	0.4
pH, s.u.	6.49	8.85	7.07	7.51	8.93	7.77
Solids, Total Dissolved TDS @ 180 C, mg/L	170	542	70	199	697	336
Solids, Total Suspended TSS @ 105 C, mg/L	242	17	12	<4	46	64
Sulfate, mg/L	1	3	7	111	8	26
Turbidity, NTU	64.1	7.0	5.8	1.8	29.8	22
Gross Alpha, pci/L	1.0	4.0	0.8	5.1	4.5	3.1
Gross Beta, pci/L	12.6	3.9	5.1	3.6	13.4	7.7
Lead 210, pci/L	<9.2	<4.8	<3.6	<3.1	0.2	4.1
Polonium 210, pci/L	0.0	<1.0	0.6	<0.6	0.2	<1.0
Radium 226, pci/L	0.2	1.3	<0.3	<0.16	<0.2	<0.2
Radium 228, pci/L	<1.1	<1.3	<1.5	<1.2	<1.5	<1.3
Thorium 230, pci/L	<0.2	<0.2	<0.5	<0.3	<0.8	<0.4
Nitrogen, Ammonia as N, mg/L	<0.05	0.06	<0.05	<0.05	<0.05	0.05
Nitrogen, Nitrate+Nitrite as N, mg/L	<0.05	0.7	0.12	<0.05	0.01	0.19
Aluminum, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, mg/L	0.002	<0.001	0.002	<0.001	0.004	0.002
Barium, mg/L	<0.1	0.5	<0.1	<0.1	0.4	0.2
Boron, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium, mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium, mg/L	18	26	9	30	19	20
Chromium, mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.01	<0.01	<0.01	0.12	<0.01	0.03
Iron, mg/L	0.90	<0.03	0.06	0.07	0.18	0.25
Lead, mg/L	<0.001	<0.001	<0.001	0.026	<0.001	0.006
Magnesium, mg/L	5	17	2	14	19	11
Manganese, mg/L	0.35	<0.01	<0.01	0.03	0.02	0.08
Mercury, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel, mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table 3.4.2-16 Water Quality Data from MRSW-12

			MRSW-12			
Parameters	**7/8/2008**	**10/23/2008**	**2/9/2009**	**4/22/2009**	**7/23/09**	**Average**
Potassium, mg/L	18	8	5	4	15	10
Selenium, mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica, mg/L	22.5	7.1	6.5	5.4	1.3	8.6
Sodium, mg/L	2	172	1	13	237	85
Uranium, mg/L	<0.0003	<0.0003	0.0004	0.0019	0.0024	0.0011
Vanadium, mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc, mg/L	<0.01	0.01	0.06	0.76	<0.01	0.17
Iron, TOTAL mg/L	4.16	0.44	0.29	0.34	0.87	1.22
Manganese, TOTAL mg/L	0.40	<0.01	<0.02	0.04	0.03	0.10
Lead 210, suspended pci/L	<11.2	<7.3	<5.1	<3.9	<3.7	<6.2
Polonium 210 suspended, pci/L	1.7	<0.2	1.1	<0.3	0.07	<1.0
Radium 226 suspended, pci/L	0.7	<0.5	0.8	<0.1	0.07	0.4
Thorium 230 suspended, pci/L	0.6	<0.2	0.2	<0.2	0.07	0.3
Uranium suspended, pci/L	<0.0003	<0.0003	0.0005	<0.0003	<0.0003	0.0003

Table 3.4.2-17 Water Quality Data - Surface Water - Seasonal Averages

Parameter	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
Bicarbonate as HCO3, mg/L	319	307	296	754
Carbonate as CO3, mg/L	12	21	89	248
Chloride, mg/L	2	3	5	12
Conductivity, umhos/cm	535	650	908	1715
Fluoride, mg/L	0.3	0.3	0.4	0.9
pH, s.u.	8.47	8.77	9.25	8.91
Solids, Total Dissolved TDS @ 180 C, mg/L	261	416	702	1091
Solids, Total Suspended TSS @105 C, mg/L	20	20	66	34
Sulfate, mg/L	17	70	91	95
Turbidity, NTU	9.9	15	73.6	11
Gross Alpha, pci/L	1.5	5.9	4.5	6.6
Gross Beta, pci/L	6.6	5.6	12.5	16.5
Lead 210, pci/L	0.3	2.0	2.4	2.8
Polonium 210, pci/L	0.6	0.8	0.5	1
Radium 226, pci/L	0.1	0.36	0.4	0.3
Radium 228, pci/L	0.19	1.1	0.8	0.9
Thorium 230, pci/L	0.17	0.2	0.3	0.2
Nitrogen, Ammonia as N, mg/L	0.07	0.07	0.05	0.28
Nitrogen, Nitrate+Nitrite as N, mg/L	0.08	0.08	0.0	0.4
Aluminum, mg/L	0.1	0.3	0.2	0.1
Arsenic, mg/L	0.002	0.003	0.007	0.006
Barium, mg/L	0.3	0.2	0.2	0.5
Boron, mg/L	0.1	0.2	0.1	0.1
Cadmium, mg/L	0.005	0.005	0.005	0.005
Calcium, mg/L	21	31	35	24
Chromium, mg/L	0.05	0.05	0.05	0.05
Copper, mg/L	0.01	0.04	0.01	0.01
Iron, mg/L	0.07	0.18	0.30	0.34
Lead, mg/L	0.002	0.007	0.001	0.044
Magnesium, mg/L	12	18	21	38
Manganese, mg/L	0.02	0.01	0.14	0.02
Mercury, mg/L	0.001	0.001	0.001	0.001
Molybdenum, mg/L	0.1	0.1	0.1	0.1
Nickel, mg/L	0.05	0.05	0.05	0.05
Potassium, mg/L	8.13	6	14	14
Selenium, mg/L	0.001	0.001	0.001	0.001
Silica, mg/L	7.0	7.0	9.5	5.8
Sodium, mg/L	83	97	151	379
Uranium, mg/L	0.0015	0.0014	0.0012	0.0039
Vanadium, mg/L	0.1	0.1	0.1	0.1
Zinc, mg/L	0.02	0.17	0.01	0.01
Iron, TOTAL mg/L	0.38	0.67	4.3	0.43
Manganese, TOTAL mg/L	0.04	0.04	0.21	0.02
Lead 210, suspended pci/L	1.3	2.9	3.9	1.8
Polonium 210 suspended, pci/L	0.63	0.7	0.51	1.1
Radium 226 suspended, pci/L	0.2	0.3	0.17	0.3
Thorium 230 suspended, pci/L	0.1	0.2	0.12	0.3
Uranium suspended, pci/L	0.0003	0.0003	0.0003	0.0004

Table 3.4.2-18 Water Quality Data - Surface Water - Average Concentrations

Parameter	Overall Average
Bicarbonate as HCO3, mg/L	419
Carbonate as CO3, mg/L	92
Chloride, mg/L	5.4
Conductivity, umhos/cm	952
Fluoride, mg/L	0.5
pH, s.u.	8.85
Solids, Total Dissolved TDS @ 180 C, mg/L	618
Solids, Total Suspended TSS @ 105 C, mg/L	35
Sulfate, mg/L	68
Turbidity, NTU	27.1
Gross Alpha, pci/L	4.6
Gross Beta, pci/L	10.3
Lead 210, pci/L	1.9
Polonium 210, pci/L	0.7
Radium 226, pci/L	0.3
Radium 228, pci/L	0.7
Thorium 230, pci/L	0.2
Nitrogen, Ammonia as N, mg/L	0.12
Nitrogen, Nitrate+Nitrite as N, mg/L	0.13
Aluminum, mg/L	0.2
Arsenic, mg/L	0.004
Barium, mg/L	0.3
Boron, mg/L	0.1
Cadmium, mg/L	0.005
Calcium, mg/L	28
Chromium, mg/L	0.05
Copper, mg/L	0.02
Iron, mg/L	0.22
Lead, mg/L	0.013
Magnesium, mg/L	22
Manganese, mg/L	0.05
Mercury, mg/L	0.001
Molybdenum, mg/L	0.1
Nickel, mg/L	0.05
Potassium, mg/L	10.45
Selenium, mg/L	0.001
Silica, mg/L	7.3
Sodium, mg/L	178
Uranium, mg/L	0.0020
Vanadium, mg/L	0.1
Zinc, mg/L	0.05
Iron, TOTAL mg/L	1.44
Manganese, TOTAL mg/L	0.08
Lead 210, suspended pci/L	2.50
Polonium 210 suspended, pci/L	0.73
Radium 226 suspended, pci/L	0.2
Thorium 230 suspended, pci/L	0.2
Uranium suspended, pci/L	0.0003

Table 3.5-14: Summary of Wetlands within the Project Area

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Simmons Draw	W1	Sec. 4 T41N R75W	Roll 1 P4 & P5	Non-Wetland	--	--			Foot slope	Upland vegetation	--
Simmons Draw	W3	Sec. 4 T41N R75W	Roll 1 P6 & P7	Non-Wetland	--	--			Depression area	Depression area caused by berm	--
Simmons Draw	*Wpt 4*	Sec. 4 T41N R75W	Roll 1 P11 & P12	Non-wetland	--	--			Tributary to main drainage	Upland grass in tributary	--
Simmons Draw	W5	Sec. 4 T41N R75W	Roll 1 P17 & P18	Wetland	PEM POW	0.015 acre for pond (PEM) 1.87 acres for drainage (POW)	76'	0.19 miles	Pond due to man made berm	--	Non-jurisdictional
Simmons Draw	W6	Sec. 33 T42N R75W	Roll 1 P19 & P20	Non-wetland	--	--			Drainage bottom	Upland vegetation	--
Simmons Draw	W7	Sec. 33 T42N R75W	Roll 1 P22 & P23	Non-wetland	--	--			Drainage bottom	Upland vegetation	--
Simmons Draw	W8	Sec. 33 T42N R75W	Roll 1 P24-P26	Non-wetland	--	--			Depression in drainage	Upland vegetation dominant	--
Simmons Draw	*W9*	Sec. 33 T42N R75W	No Photo	Non-wetland	--	--			Drainage bottom	Primarily upland vegetation	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Simmons Draw	*W10*	Sec. 33 T42N R75W	Roll 1 P27 & P28	Wetland	PEM	0.055 acre	79'	0.08 miles	Depression located in an upland area	PEM identified with NWI mapping	Non-jurisdictional
Simmons Draw	W11	Sec. 33 T42N R75W	Roll 1 P29 & P30	Non-wetland	--	--			Drainage bottom	Primarily upland vegetation	--
Simmons Draw	W12	Sec. 33 T42N R75W	Roll 1 P31	Wetland	PEM	0.055 acre	79'	0.08 miles	Drainage	--	Non-jurisdictional
Simmons Draw	*W13*	Sec. 4 T41N R75W	Roll 1 P32-P34	--	--	--			--	--	--
Simmons Draw	W14	Sec. 4 T41N R75W	No Photo	Non-wetland	--	--			Tributary of main drainage	Vegetation and hydrology is out	--
Simmons Draw	W15	Sec. 4 T41N R75W	Roll 1 P35 & P36	Non-wetland	--	--			Tributary of main drainage	Silver sage in bottom of drainage	--
Simmons Draw	W16	Sec. 4 T41N R75W	Roll 2 P1-P3	Stock Pond	PEM POW	0.0086 acre 0.0007 acre	--	--	Stock pond	Vegetation in drainage is dominated by FACU & UPL plants	Non-jurisdictional
Simmons Draw	*Wpt. 5*	Sec. 4 T41N R75W	Roll 2 P4 & P5	Pond	PEM	0.009 acre	--	--	--	Pond bermed on all sides	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Simmons Draw	W17	Sec. 4 T41N R75W	Roll 2 P6 & P7	Non-wetland	--	--	--	--	Drainage bottom	Upland vegetation is same throughout	--
Simmons Draw	*Wpt. 9*	Sec. 4 T41N R75W	Roll 2 P8	Non-wetland	--	--	--	--	Stock pond area dammed	Vegetation dominated by upland	--
Simmons Draw	W18	Sec. 3 T41N R75W	Roll 2 P9 & P10	Non-wetland	--	--	--	--	Drainage bottom	--	--
Simmons Draw	W19	Sec. 3 T41N R75W	Roll 2 P11-P13	Wetland	PUB	0.014 acre	--	--	Stock pond	--	Non-jurisdictional
Simmons Draw	*Wpt. 16*	Sec. 3 T41N R75W	Roll 2 P14 & P15	Wetland	PEM	0.030 acre	--	--	Stock pond	Soils similar to W19	Non-jurisdictional
Simmons Draw	W20	Sec. 3 T41N R75W	Roll 2 P16 & P17	Wetland	PUB	0.533 acre	35'	0.22 miles	Drainage bottom	--	Non-jurisdictional
Simmons Draw	W21	Sec. 3 T41N R75W	Roll 2 P18 & P19	Non-wetland	--	--	--	--	Drainage bottom	--	--
Simmons Draw	*Wpt. 23*	Sec. 3 T41N R75W	Roll 2 P20 & P21	Non-wetland	--	--	--	--	Drainage bottom	Dominated by UPL and FACU vegetation	--
Simmons Draw	W22	Sec. 3 T41N R75W	Roll 2 P22 & P23	Non-wetland	--	--	--	--	Drainage bottom	--	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Simmons Draw	Wpt. 24	Sec. 2 T41N R75W	Roll 2 P24 & P25	Non-wetland	--	--	--	--	Drainage bottom	Upland vegetation found in drainage bottom	--
Ninemile Creek	W23	Sec. 10 T41N R75W	Roll 2 P26 & P27	Wetland	PUB	3.219 acre	35'	0.44 miles	Drainage bottom	--	Non-jurisdictional
Ninemile Creek	Wpt. 25	Sec. 10 T41N R75W	Roll 2 P28-P30	Wetland	PUB	--	--	--	--	End wetland channel, CBM outfall	Non-jurisdictional
Ninemile Creek	W24	Sec. 9 T41N R75W	Roll 2 P31 & R32	Wetland	PUB	0.241 acre	54'	0.03 miles	Pond area	Secondary Indicator is water	Non-jurisdictional
Ninemile Creek	Wpt. 33	Sec. 9 T41N R75W	Roll 2 P33 & P34	Wetland	PUB	0.006 acre	21'	0.22 miles	Pond and drainage bottom	Drainage vegetation same as W24	Non-jurisdictional
Ninemile Creek	W24-W25	Sec. 4 T41N R75W	--	Wetland	PUB	4.028 acre	111'	0.27 miles	Drainage Bottom	W24 to W25, where all wetland char. fall out	Non-jurisdictional
Ninemile Creek	W25	Sec. 4 T41N R75W	Roll 2 P35 & P36	Non-wetland	--	--	--	--	Drainage bottom	--	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Ninemile Creek	Wpt. 34	Sec. 9 T41N R75W	Roll 2 P37 & P38	Non-wetland	--	--	--	--	Drainage bottom	Vegetation is dominated by UPL and FACU	--
Tributary to Simmons Draw	W26	Sec. 3 T41N R75W	Roll 2 P39	Non-wetland	--	--	--	--	Drainage bottom	--	--
Tributary to Simmons Draw	W27	Sec. 34 T42N R75W	Roll 2 P40 & P41	Wetland	PEM POW	0.0791 acre 1.4431 acre	1.5' 76.5'	0.15 miles	Edge of drainage	CBM Well	Non-jurisdictional
Tributary to Simmons Draw	W28	Sec. 34 T42N R75W	Roll 2 P42 & P43	Wetland	PUB	3.528 acre	76.5'	0.37 miles	Drainage bottom	--	Non-jurisdictional
Tributary to Simmons Draw	Wpt. 36	Sec. 34 T42N R75W	Roll 2 P44 & P45	Wetland	PEM & POW	Refer to W27	Refer to W27	Refer to W27	Drainage bottom	--	Non-jurisdictional
Tributary to Simmons Draw	W29	Sect. 34 T42N R75W	Roll 2 P46 & P47	Wetland	PUB	Refer to W28	Refer to W28	Refer to W28	Floodplain	--	Non-jurisdictional
Tributary to Simmons Draw	Wpt. 38	Sec. 34 T42N R75W	Roll 2 P48-P50	Wetland	PEM	Refer to W27	Refer to W27	Refer to W27	Drainage by outfall	CBM Outfall	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Tributary to Simmons Draw	W30	Sec. 3 T41N R75W	Roll 3 P1 & P2	Non-wetland	--	--	--	--	Drainage bottom	--	--
Tributary to Simmons Draw	W31	Sec. 34 T42N R75W	Roll 3 P3 & P4	Wetland	PUB	Refer to W28	Refer to W28	Refer to W28	Drainage bottom	Second hydrology indicators redox concentrations found in dead roots	Non-jurisdictional
Tributary to Simmons Draw	*Wpt. 40*	Sec. 34 T42N R75W	Roll 3 P5& P6	Wetland	PEM POW	0.0154 acre 0.0358 acre	--	--	Pond	OBL vegetation present	Non-jurisdictional
Tributary to Simmons Draw	W32	Sec. 34 T42N R75W	Roll 3 P7-P9	Non-wetland	--	--	--	--	Outfall	--	--
Tributary to Simmons Draw	W33	Sec. 34 T42N R75W	Roll 3 P10 & P11	Non-wetland	--	--	--	--	Drainage bottom	End of wetland characteristics are dropping out	--
Tributary to Simmons Draw	W34	Sec. 34 T42N R75W	Roll 3 P12-P14	Wetland	PEM	0.125 acre	34'	0.27'		Near windmill	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Tributary to Simmons Draw	W35	Sec. 35 T42N R75W	Roll 3 P15-P17	Non-wetland	--	--	--	--	Drainage	Wetland boundary	--
Second Tributary to Simmons Draw	W36	Sec. 35 T42N R75W	Roll 3 P20 & P21	Wetland	POW	0.024 acre	--	--	Stock pond	--	Non-jurisdictional
Second Tributary to Simmons Draw	W37	Sec. 35 T42N R75W	Roll 3 P24 & P25	Wetland	PUB	5.738 acre	73'	0.71 miles	Drainage bottom	--	Non-jurisdictional
Second Tributary to Simmons Draw	W38	Sec. 35 T42N R75W	Roll 3 P26 & P27	Non-wetland	--	--	--	--	Drainage bottom	Swale in downstream photo (roll 3, photo 27)	--
Second Tributary to Simmons Draw	Wpt. 57	Sec. 34 T42N R75W	Roll 3 P28 & P29	Wetland	PEM	0.073 acre	40'	0.75 miles	CBM outfall area	CBM outfall area and bermed area	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Second Tributary to Simmons Draw	Wpt. 71	Sec. 35 T42N R75W	Roll 3 P30 & P31	Wetland	PEM POW	0.0017 acres 0.0286 acres	--	--	CBM	OBL vegetation dominant in area, water from outfall present	Non-jurisdictional
Second Tributary to Simmons Draw	W39	Sec. 35 T42N R75W	Roll 3 P32-P35	Non-wetland	--	--	--	--	Flat floodplain	Near outfall area	--
Second Tributary to Simmons Draw	W40	Sec. 35 T42N R75W	Roll 3 P38-P41	Wetland	PEM	0.54 acres	42'	0.07 miles	Drainage bottom	Open water in channel below	Non-jurisdictional
Second Tributary to Simmons Draw	Wpt. 72	Sec. 35 T42N R75W	Roll 3 P36 & P37	Non-wetland	--	--	--	--	Drainage bottom	Silver sage in drainage	--
Second Tributary to Simmons Draw	W41	Sec. 2 T41N R75W	Roll 3 P45 & P46	Non-wetland	--	--	--	--	Drainage bottom	Dead root channels	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Second Tributary to Simmons Draw	Wpt. 77	Sec. 2 T41N R75W	Roll 3 P42-P44	Non-wetland	--	--	--	--	Culvert and berm	South side of vegetation similar to W39, berm area	--
Second Tributary to Simmons Draw	W42	Sec. 35 T42N R75W	Roll 3 P52 & P53	Wetland	PUB	1.51 acres	61'	0.14 miles	--	--	Non-jurisdictional
Second Tributary to Simmons Draw	Wpt. 78	Sec. 35 T42N R75W	Roll 3 P47-P51	Wetland	POW	0.846 acres	--	--	Pond near outfall	OBL vegetation present on fringe	Non-jurisdictional
Second Tributary to Simmons Draw	Wpt. 92	Sec. 35 T42N R75W	Roll 4 P4-P6	Wetland	PEM at Outfall	Refer to W40	Refer to W40	Refer to W40	CBM outfall	--	Non-jurisdictional
Second Tributary to Simmons Draw	Wpt. 93	Sec. 36 T42N R75W	Roll 4 P7 & P8	Wetland	PEM	Refer to W40	Refer to W40	Refer to W40	Drainage bottom	Drainage below outfall	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Pine Tree Draw	Wpt. 95	Sec. 36 T42N R75W	Roll 4 P11	Non-wetland	--	--	--	--	Pond	Outfall and surrounding pond are dry	--
Pine Tree Draw	Wpt. 98	Sec. 26 T42N 75W	Roll 4 P23 & P24	Wetland	PEM	0.052 acre	12'	0.04 miles	Wellhead and drainage	Water from well head, PEM from Wpt. 98-W48	Non-jurisdictional
Pine Tree Draw	Wpt. 102	Sec. 25 T42N R75W	No Photo	Non-wetland	--	--	--	--	CBM outfall	No water	--
Pine Tree Draw	Wpt. 103-104	Sec. 25 T42N R75W	Roll 4 P32-P35	Wetland	PEM	0.377 acre	21'	0.14 miles	Drainage bottom	Upland encroaching on bottom of drainage to the west	--
Pine Tree Draw	Wpt. 117	Sec. 36 T42N R75W	Roll 4 P46-P48	Non-wetland	--	--	--	--	CBM Outfall	--	--
Pine Tree Draw	Wpt. 119	Sec. 1 T41N R75W	--	--	--	--	--	--	--	--	--
Drainage in Sec. 1	Wpt. 128	Sec. 1 T41N R75W	Roll 4 P59 & P60	Wetland	PEM POW	0.1144 acre 0.0290 acre	--	--	Stock pond	Similar characteristics to other large ponds	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Second Tributary to Simmons Draw	Wpt. 129 (move point to the west to SC27)	Sec. 27 T42N R75W	Roll 4 P61-P63	Wetland	POW	1.173 acre	--	--	Stock pond	Similar characteristics to other large ponds	--
Second Tributary to Simmons Draw	W43	Sec. 35 T42N R75W	Roll 3 P54 & P55	Wetland	PEM	3.25 acres	60'	0.49 miles	Drainage bottom	Soils same as W42 No water source	Non-jurisdictional
Second Tributary to Simmons Draw	W44	Sec. 35 T42N R75W	Roll 4 P1-P3	Wetland	PEM	Refer to W43	Refer to W43	Refer to W43	Drainage bottom	--	Non-jurisdictional
Pine Tree Draw	W45	Sec. 36 T42N R75W	Roll 4 P9 & P10	Non-Wetland	--	--	--	--	Drainage bottom	Edge of wetland boundary More upland vegetation and slight topological change	--
Pine Tree Draw	W46	Sec. 36 T42N R75W	Roll 4 P12-P14	Non-Wetland	--	--	--	--	Drainage bottom	Hydrophytic vegetation to east (W47) that abuts drainage	--

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Pine Tree Draw	W47	Sec. 36 T42N R75W	Roll 4 P16-P18	Wetland	PEM	0.093 acre	16'	0.05 miles	Swale that abuts drainage bottom	Upper portion of drainage east of W46	Non-jurisdictional
Pine Tree Draw	W48	Sec. 26 T42N R75W	Roll 4 P19-P21	Wetland	PEM POW	1.022 acre 0.22 acre	23' 4'	0.38 miles 0.04 miles	Drainage bottom	Channel approx. 20-25 ft Water coming from outfall; more redox concentrations lower in depth	Non-jurisdictional
Pine Tree Draw	W50	Sec. 25 T42N R75W	Roll 4 P24-P26	Non-wetland	--	--	--	--	Hillslope drainage	Wet boundary where tank water begins	--
Pine Tree Draw	W51	Sec. 25 T42N R75W	Roll 4 P27 & P28	Non-wetland	--	--	--	--	Drainage bottom	Oxidation in pore lining and matrix below 5 inches and above 5-8 inches	--
Pine Tree Draw	W52	Sec. 25 T42N R75W	Roll 4 P30 & P31	Non-wetland	--	--	--	--	Drainage bottom	Cattail remnants 15' upstream from point	--
Pine Tree Draw	W45-W53	Sec. 25 T42N R75W	--	Wetland	PUB	3.065	31'	0.68 miles	Drainage bottom	--	Non-jurisdictional

Drainage	Map and Plot ID (no Data Form 1 if italicized)	Legal Description	Photo #	2007 Delineation Designation	Cowardin Classification	Acreage of Cowardin Classification	Approximate Width of Drainage (feet)	Length of Wetland Drainage (miles)	Geomorphic Setting	Comments	Jurisdictional Recommen-dation
Pine Tree Draw	W53	Sec. 36 T42N R75W	Roll 4 P36-P38	Wetland	POW	1.025	--	--	Pond	WPT 109 pipe with water running out	Non-jurisdictional
Pine Tree Draw	W54	Sec. 36 T42N R75W	Roll 4 P41-P43	Wetland	PUB	0.166	21'	0.07 miles	Drainage bottom	--	Non-jurisdictional
Pine Tree Draw	W55	Sec. 36 T42N R75W	Roll 4 P44 & P45	Non-wetland	--	--	--	--	Drainage bottom	Possible soil effects from CBM water; redox features from 3-7 inches; dead root channels	--

Table 3.5-15: Summary of Wetlands within the Project Area

NWI classification	PEM (acres)	POW (acres)	PUB (acres)	Length of wetland drainage (miles)
Total	5.9071	6.6952	22.048	6.59

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"Moore Ranch Wetland Map"
Figure: NRC ER 3.5.5-2A

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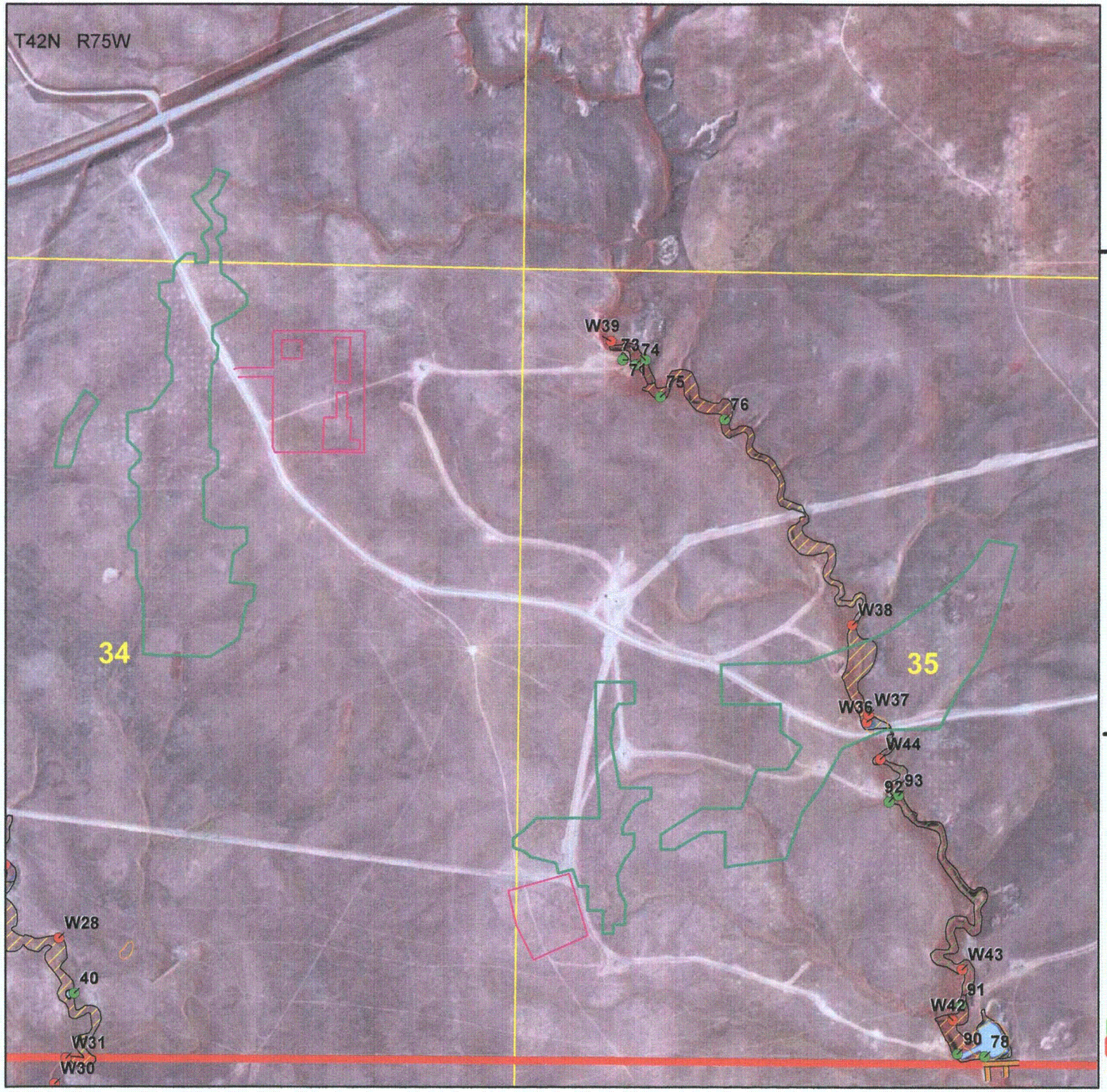

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Moore Ranch Wetland Map (Wellfield Areas) Figure: NRC ER 3.5.5-3

0 360 720 1,440
Feet

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09

N
W E
S

Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_Wellfields.mxd

1 inch = 900 feet

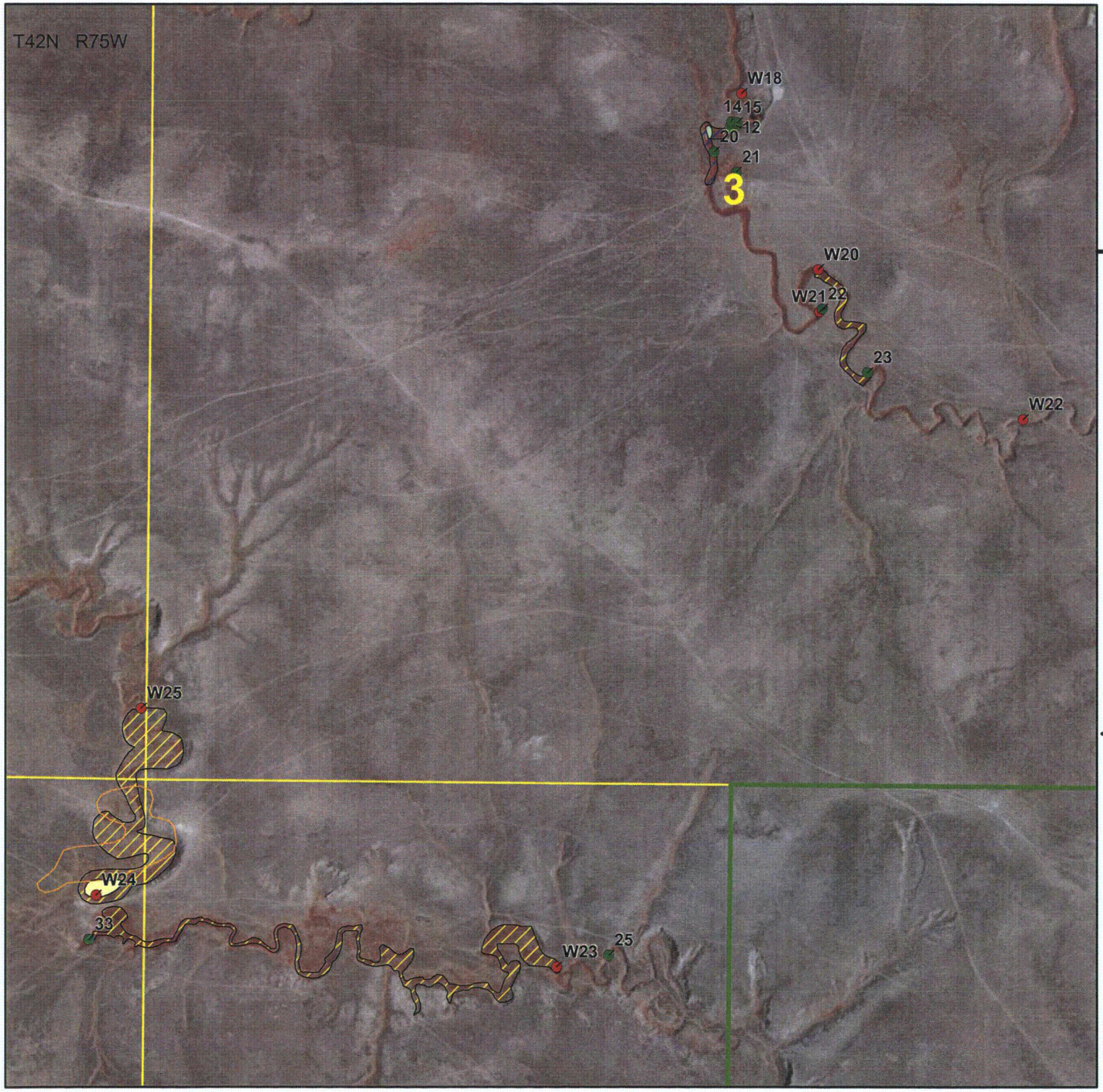
LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines



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Moore Ranch Wetland Map (Nile Mile Creek) Figure: NRC ER 3.5.5-4

0 262.5 525 1,050
Feet

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09

N
W E
S

1 inch = 625 feet

Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_NinemileCreek.mxd

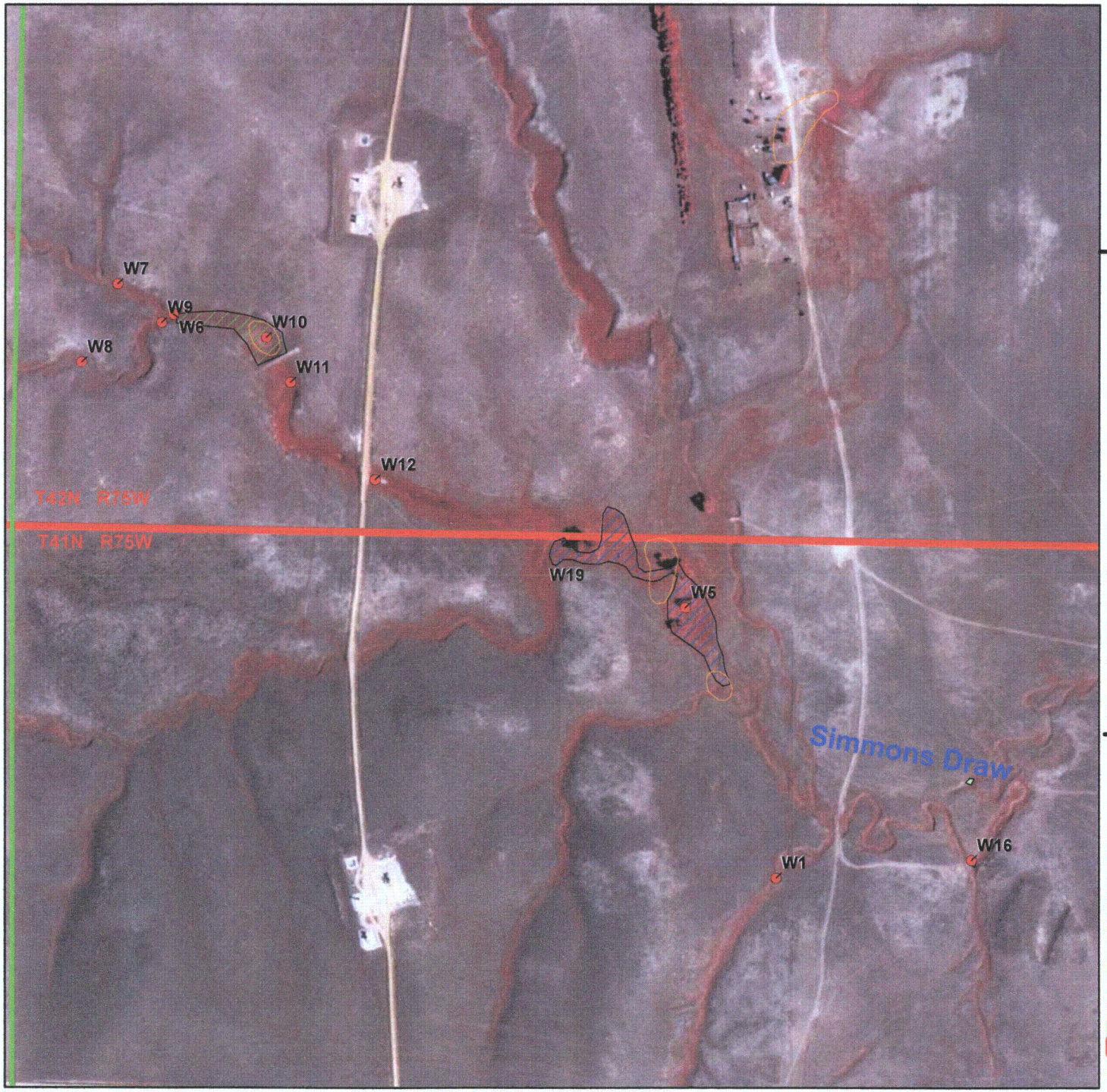
LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines



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Moore Ranch Wetland Map (Simmons Draw) Figure: NRC ER 3.5.5-5

0 200 400 800
Feet

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09

N
W E
S

Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_Simmons_Draw.mxd

1 inch = 500 feet

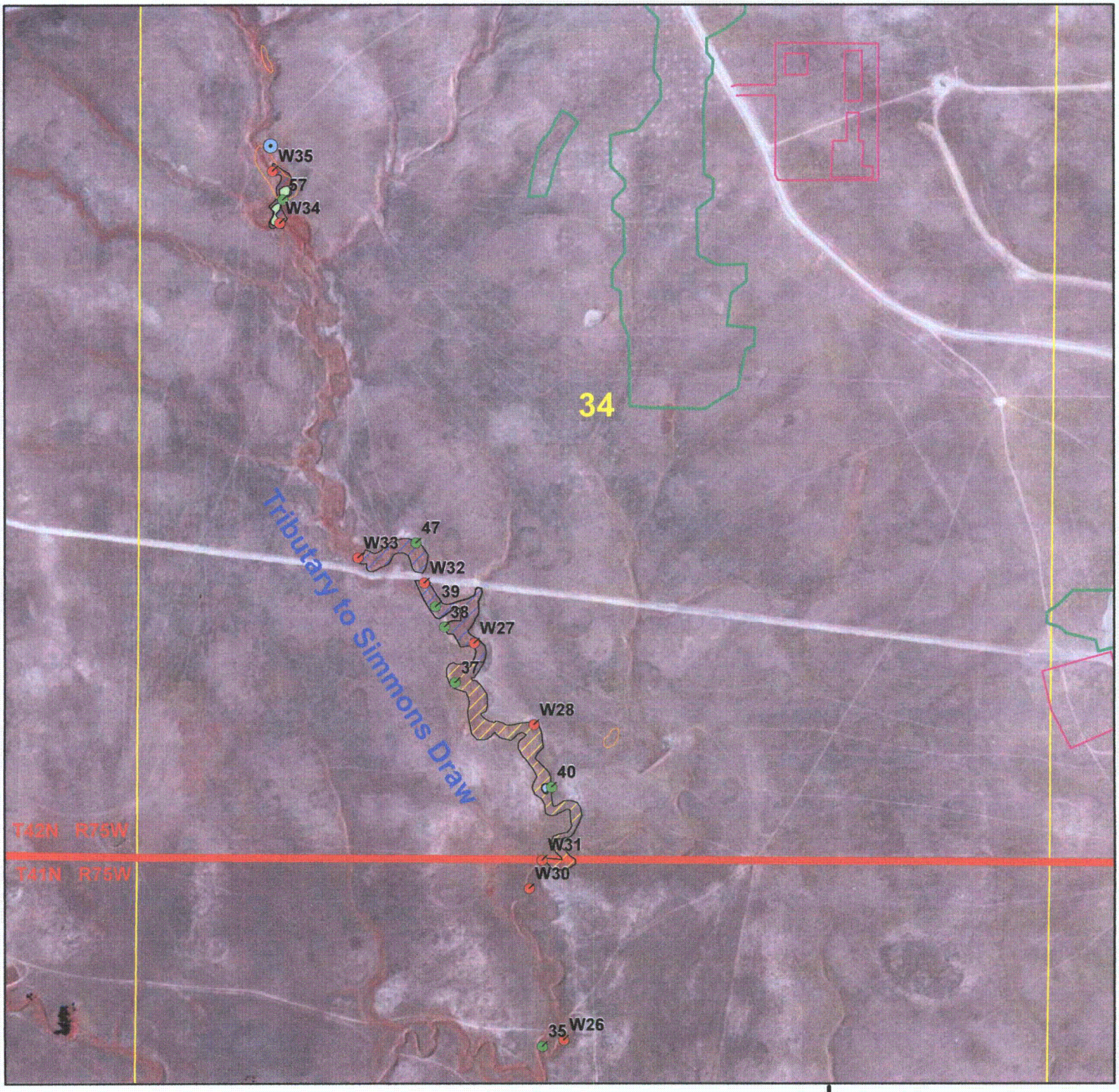
LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines



LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09
Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_Trib_Simmons_Draw.mxd

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines

N W E S

1 inch = 800 feet

0 320 640 1,280
Feet

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Moore Ranch Wetland Map (Tributary to Simmons Draw)
Figure: NRC ER 3.5.5-6

LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09
Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_Trib_2_Simmons_Draw.mxd

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines

N
W E
S

1 inch = 800 feet

0 320 640 1,280
Feet

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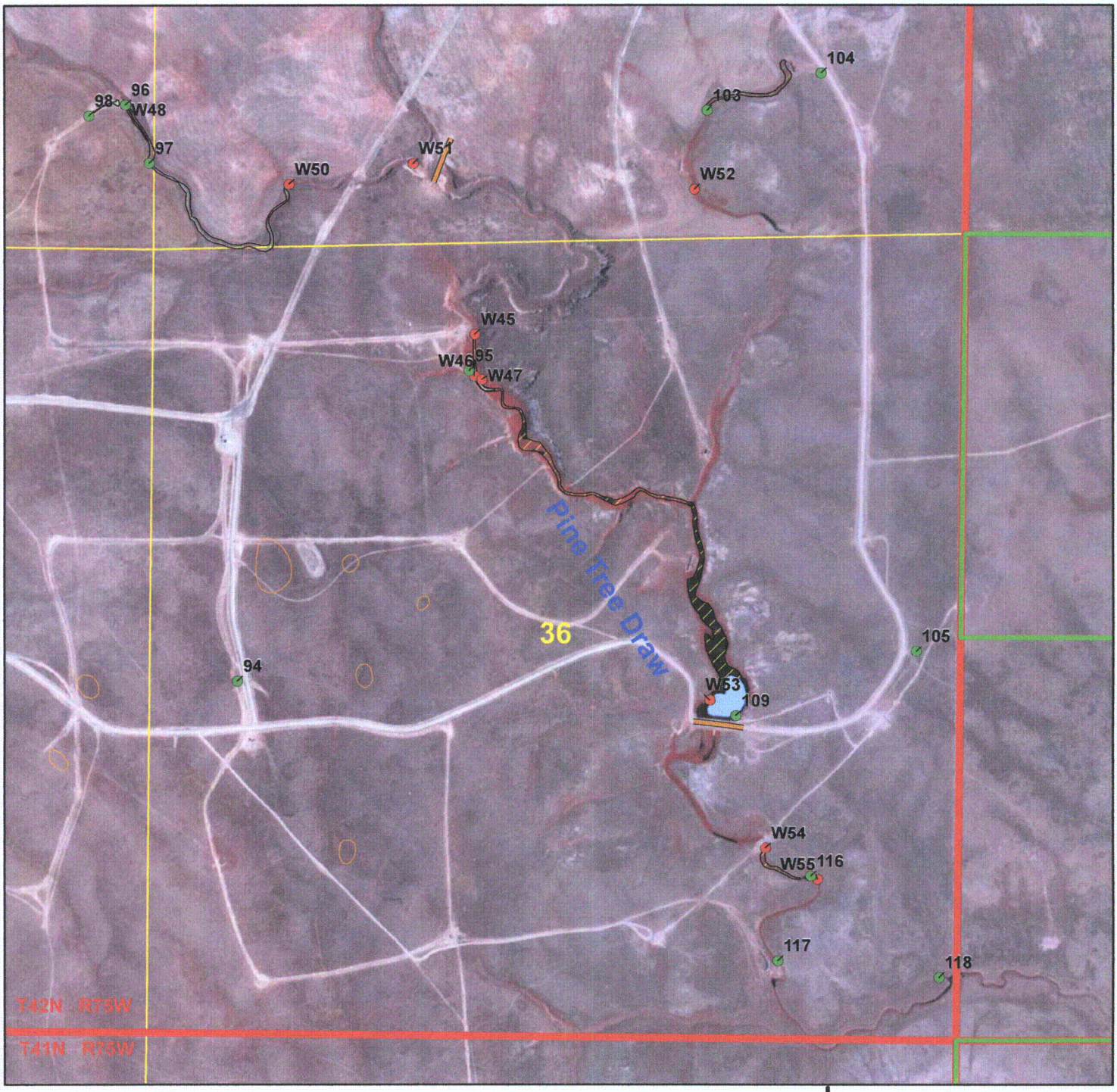
Moore Ranch Wetland Map (2nd Tributary to Simmons Draw)
Figure: NRC ER 3.5.5-7



LEGALS:
(Permit/License Boundary)

T42N R75W
S1/2 of Section 25
Section 26, 27
S1/2 of SE1/4 of Section 28
Sections 33, 34, 35, and 36
T42N R74W
W1/2, SW1/4 of Section 30
SW1/4 of Section 31

T41N R75W
N1/4 of Sec. 1
W1/4 of Sec.1
Sections 2, 3, 4
NE1/4 of Section 9
NW1/4 of Sec. 10

Designed by: K. Halvorson
Drawn by: C. Robinson
Checked by: K. Halvorson, BKS
Date Drawn: 6/29/07
Updated: 9/1/09
Projection: NAD 1983, UTM Zone 13
Year of CIR photo: 2003
Map B
File: K:\Projects\Energy_Metals\432_Energy_Metals\Maps\Final_Maps_2009\Moore_Ranch_Wetland_09012009_Pine_Tree_Draw.mxd

Legend

- Wetland Data Points (i.e., W39)
- Wetland Verification Points (i.e., 109)
- Windmill
- Berm
- Channel-Palustrine Emergent (PEM)
- Channel-Palustrine Open Water (POW)
- Channel-Palustrine Unconsollidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsollidated Bottom (PUB)
- 1976 NWI Mapping (PEM)
- Compressor Station
- Well Field Areas
- Permit / License Boundary
- Township/Range Lines
- Section Lines

N
W E
S

1 inch = 900 feet

0 360 720 1,440
Feet

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Moore Ranch Wetland Map (Pine Tree Draw)
Figure: NRC ER 3.5.5-8