Table 2.7.3-1 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 2.7.3-1 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 2.7.3-2 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

Table 2.7.3-2 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 2.7.3-3 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

Table 2.7.3-3 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	<0.003

Table 2.7.3-4 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

Table 2.7.3-4 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 2.7.3-5 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 2.7.3-5 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 2.7.3-6 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 2.7.3-6 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 2.7.3-7 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

Table 2.7.3-7 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 2.7.3-8 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

Revision: September 2009

Table 2.7.3-8 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 2.7.3-9 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 2.7.3-9 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 2.7.3-10 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										

Revision: September 2009

Table 2.7.3-10 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 2.7.3-11 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 2.7.3-11 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 2.7.3-11a 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 2.7.3-11a 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 2.7.3-11b 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 2.7.3-11c 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 2.8-14: 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	--
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

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	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
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	W18	Sec. 3	Roll 2	Non-	--	--	--	--	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
Draw		T41N R75W	P9 & P10	wetland					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	--	--
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	W24	Sec. 9	Roll 2	Wetland	PUB	0.241 acre	54'	0.03 miles	Pond area	Secondary	Non-

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
Creek		T41N R75W	P31 & R32							Indicator is water	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	--	--
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

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	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
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	W32	Sec. 34	Roll 3	Non-	--	--	--	--		--	--

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
to Simmons Draw		T42N R75W	P7-P9	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
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)	--

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. 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
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	W41	Sec. 2	Roll 3	Non-	--	--	--	--	Drainage	Dead root	--

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		T41N R75W	P45 & P46	wetland					bottom	channels	
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
Pine Tree	Wpt. 95	Sec. 36	Roll 4	Non-	--	--	--	--	Pond	Outfall and	--

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
Draw		T42N R75W	P11	wetland						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	--
		Sec. 27	Roll 4	Wetland	POW	1.173 acre	--	--	Stock pond		--

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)	T42N R75W	P61-P63							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 2.8-14a: 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

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

"Moore Ranch Wetland Map"
Figure: NRC TR 2.8.5-2A

WITHIN THIS PACKAGE... OR BY SEARCHING USING THE DOCUMENT/REPORT NO.

D-01

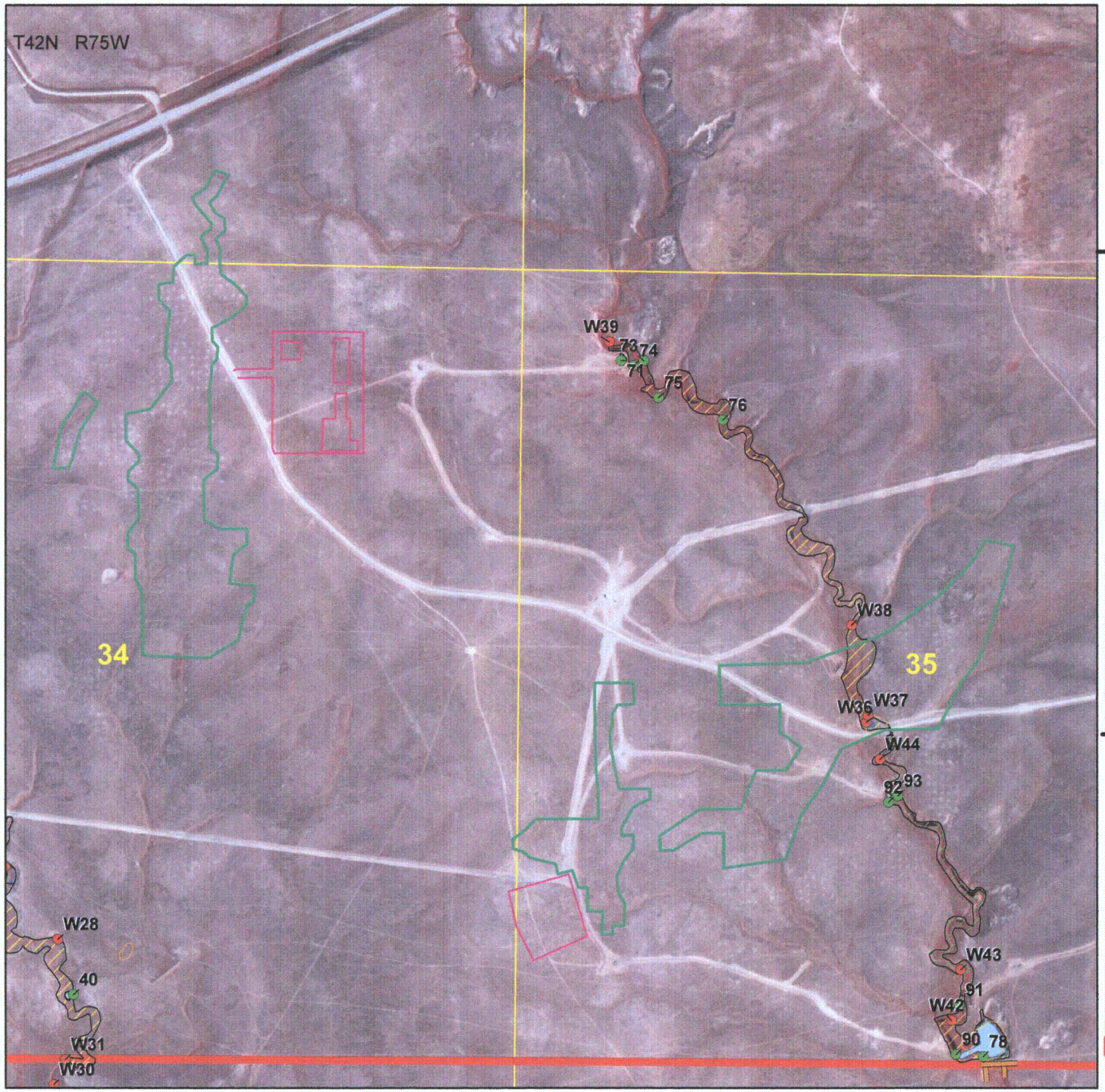
THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

"Moore Ranch Wetland Map"
Figure: NRC TR 2.8.5-2B

WITHIN THIS PACKAGE... OR BY SEARCHING USING THE DOCUMENT/REPORT NO.

D-02X



uraniumone™
investing in our energy

Moore Ranch Wetland Map (Wellfield Areas) Figure: NRC TR 2.8.5-3

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

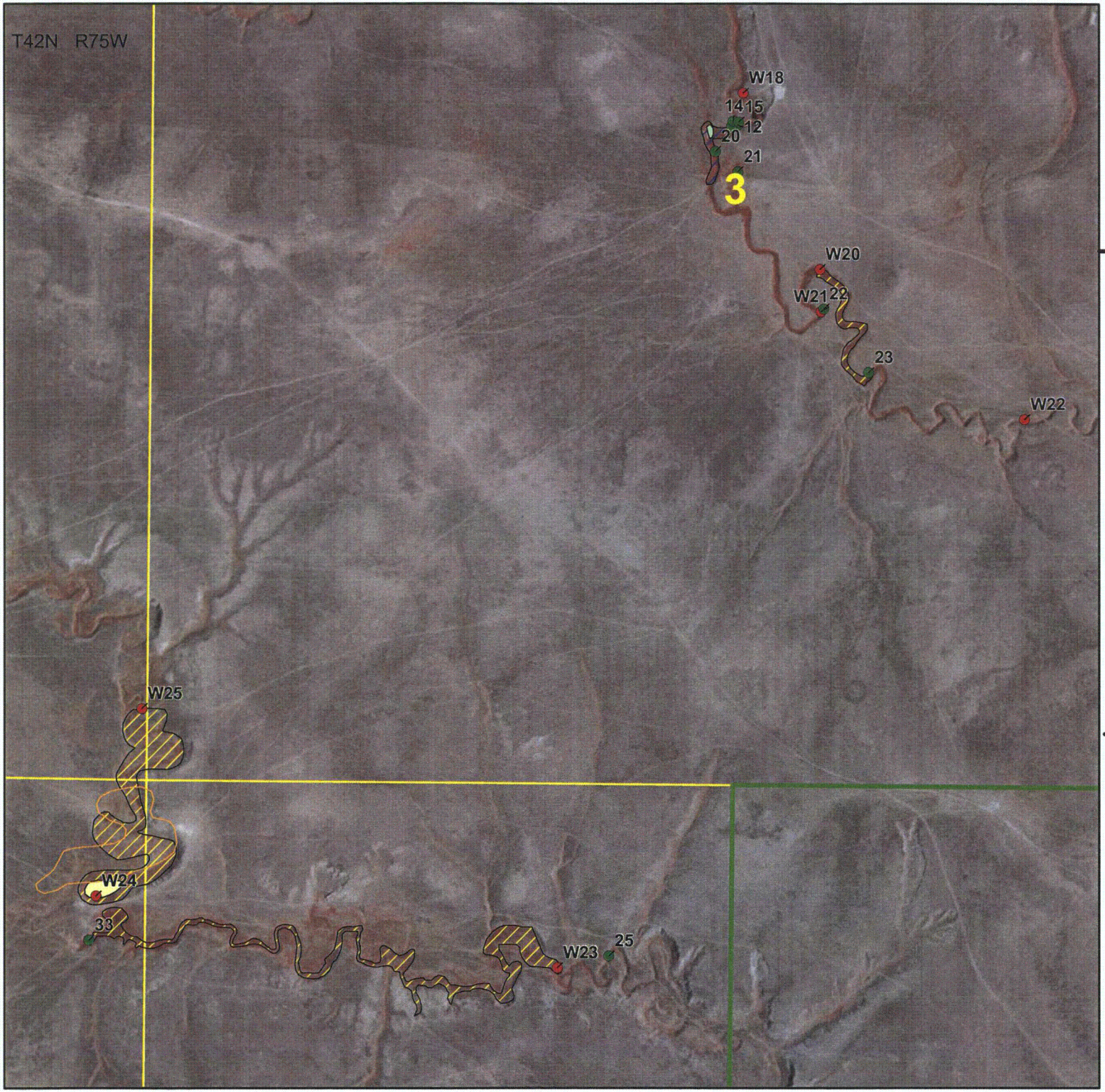
LEGALS:
(Permit/License Boundary)

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



uraniumone™
investing in our energy

Moore Ranch Wetland Map (Nile Mile Creek) Figure: NRC TR 2.8.5-4

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

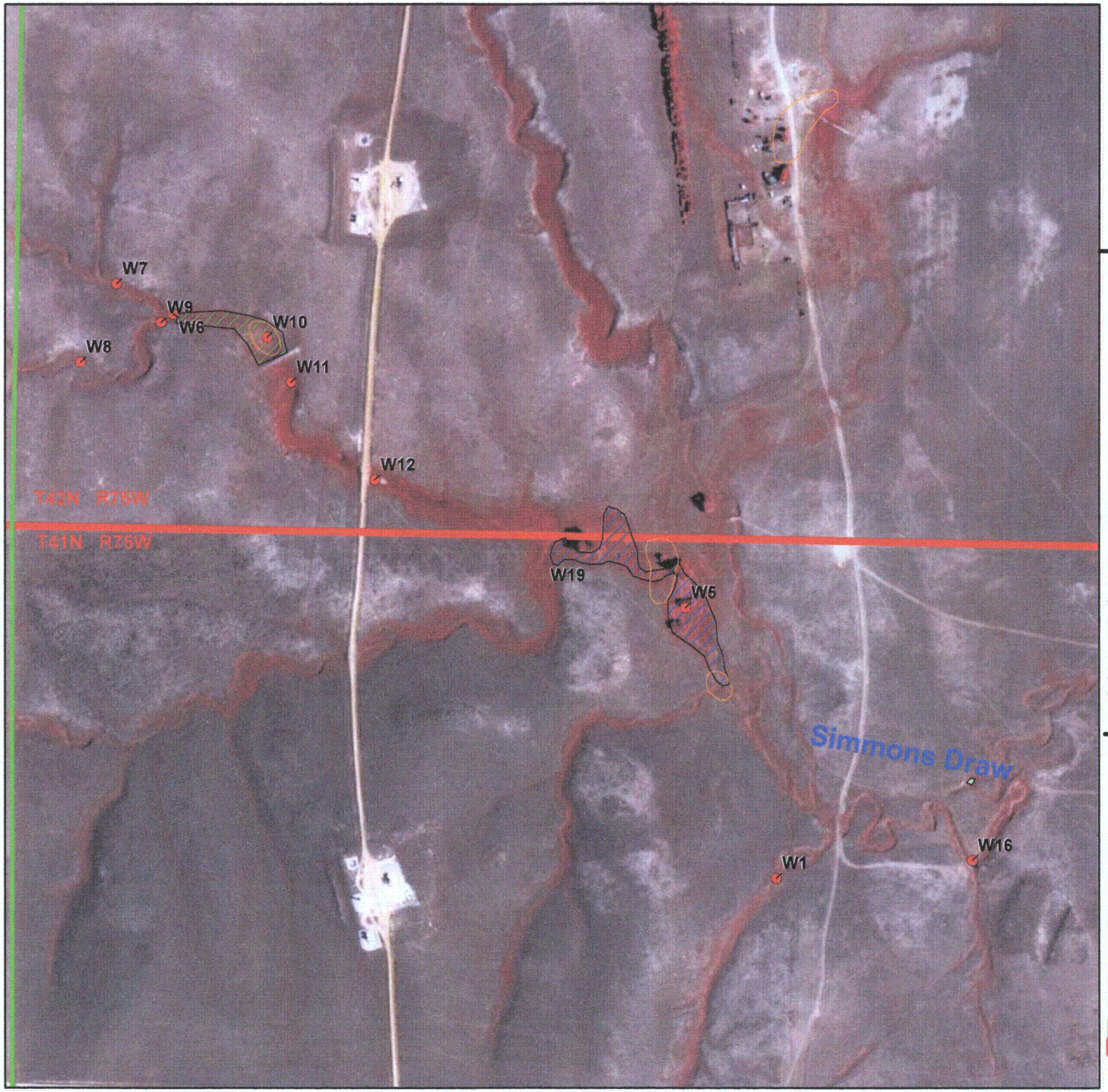
LEGALS:
(Permit/License Boundary)

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



uraniumone™
investing in our energy

Moore Ranch Wetland Map (Simmons Draw) Figure: NRC TR 2.8.5-5

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

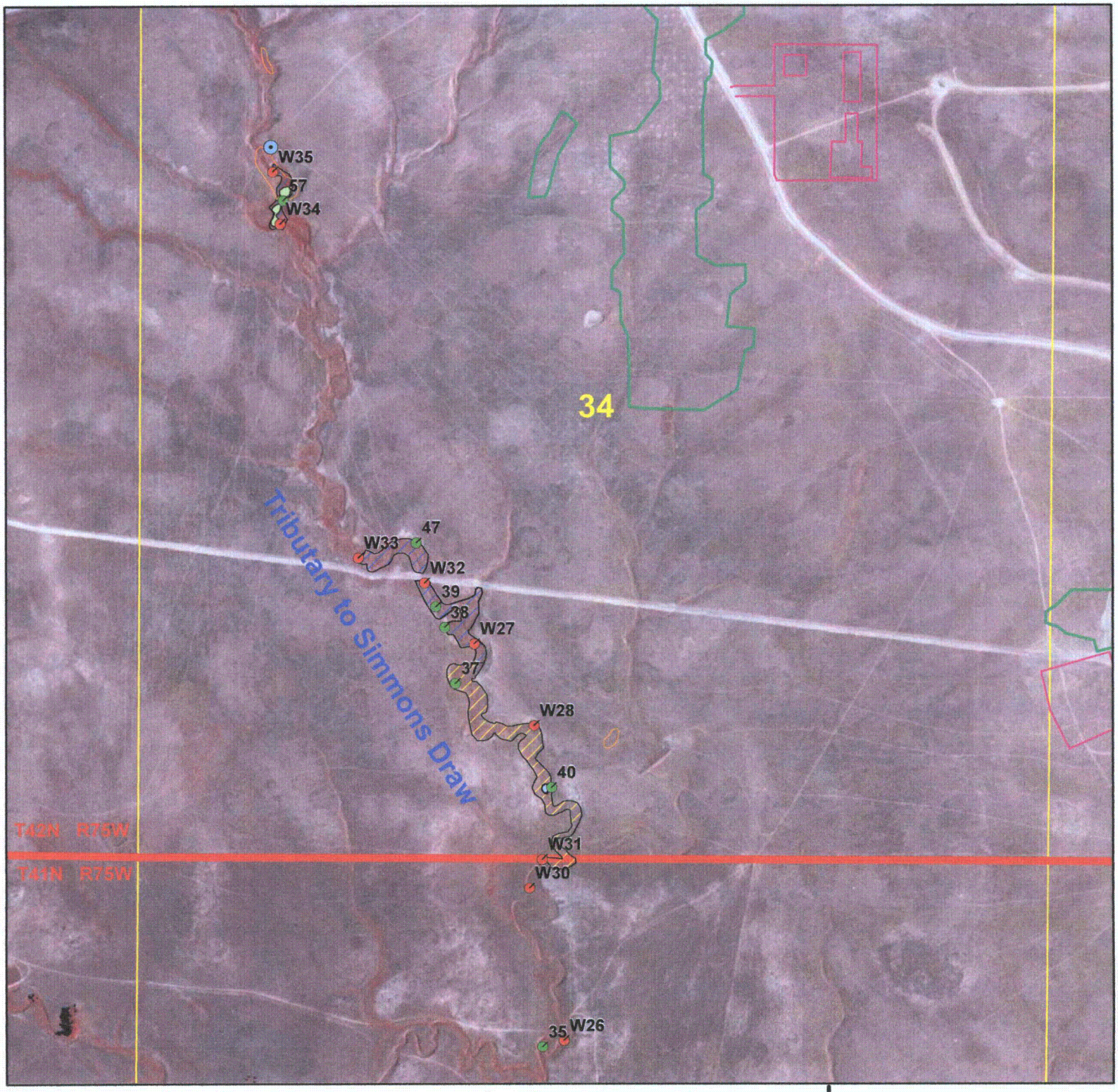
LEGALS:
(Permit/License Boundary)

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 Unconsolidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsolidated 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

uraniumone™
investing in our energy

Moore Ranch Wetland Map (Tributary to Simmons Draw)
Figure: NRC TR 2.8.5-6

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

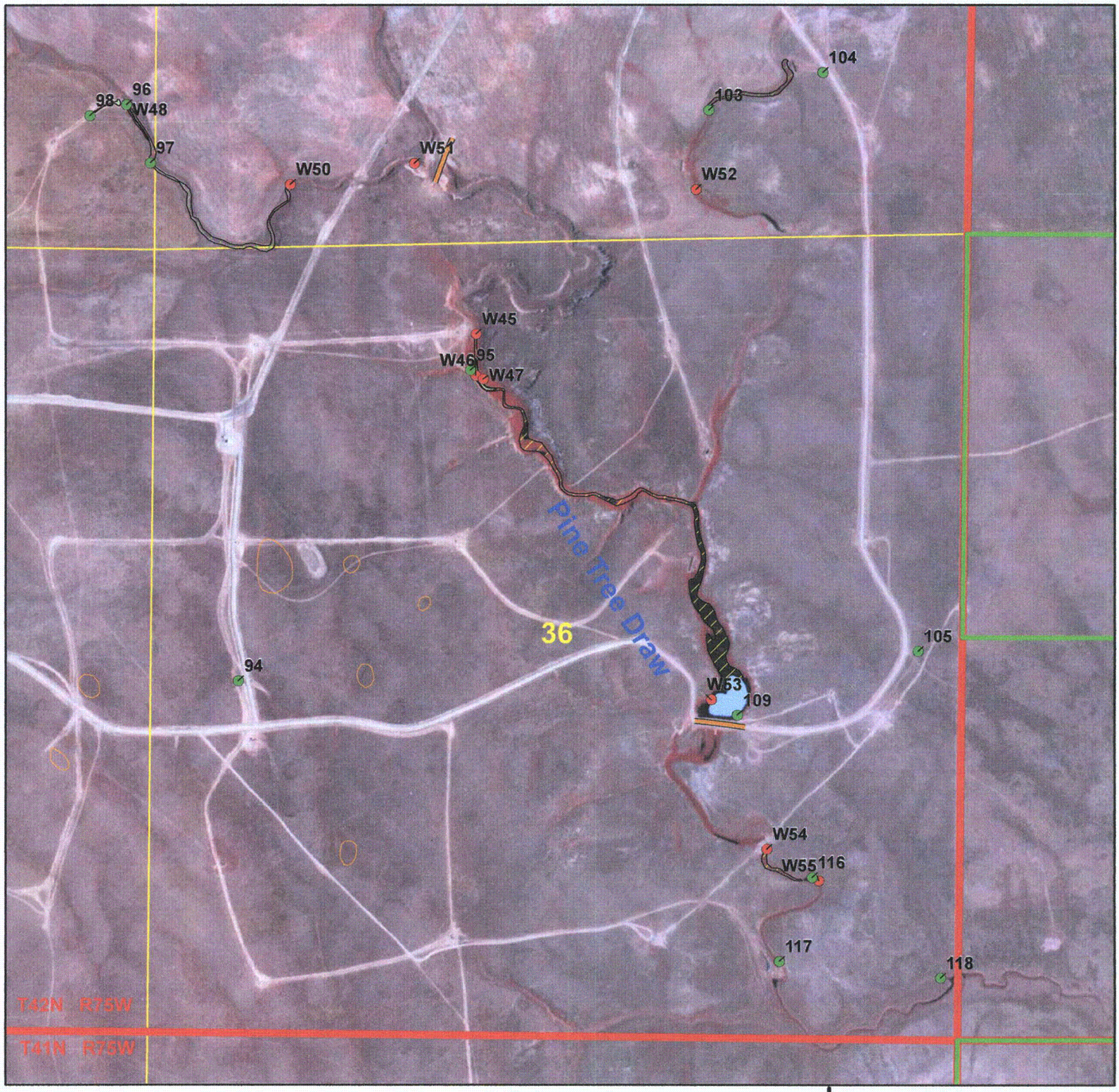
N
W E
S

1 inch = 800 feet

0 320 640 1,280
Feet

uraniumone™
investing in our energy

Moore Ranch Wetland Map (2nd Tributary to Simmons Draw)
Figure: NRC TR 2.8.5-7



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 Unconsolidated Bottom (PUB)
- Pond-Palustrine Emergent (PEM)
- Pond-Palustrine Open Water (POW)
- Pond-Palustrine Unconsolidated 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

uraniumone™
investing in our energy

Moore Ranch Wetland Map (Pine Tree Draw)
Figure: NRC TR 2.8.5-8