File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 1 of 9

		Site ID	32M-92-01X	32M-92-01X	32M-92-01X	32M-92-01X	32M-92-02X	32M-92-02X
		Field Sample ID	MF3201X3	MX3201X1	MX3201X2	MX3201X3	MF3202X3	MX3202X1
		Sample Date	06/22/93	11/19/92	03/03/93	06/22/93	06/22/93	11/19/92
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	<25.0	**475**	**2680 J**	**330 J**	35.8	**11500**
	Arsenic	50 ugl	3.42	3.94	23.6	6.12	<2.00	44.1
	Barium	2000 ugl	16.9	19.0	32.3	19.6	36.4	95.4
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	40300	42600	48300	41000	24200	24900
	Chromium (total)	100 ugl	<10.0	<6.02	<6.02	<10.0	<10.0	15.9
	Cobalt	N/A	<10.0	<25.0	<25.0	<10.0	<10.0	<25.0
	Copper	1000 ugl	<10.0	<8.09	<8.09	<10.0	<10.0	15.6 B
	Iron	300 ugl	84.0	**1270**	**4210**	**744**	<25.0	**14800**
	Lead	15 ugl	<5.00	2.71	2.49	<5.00	<5.00	12.5
	Magnesium	N/A	4390	4370	5490	4480	3110	4980
	Manganese	50 ugl	**7000**	**6450**	**7930**	**7100**	28.6	**756**
	Nickel	100 ugl	<10.0	<34.3	<34.3	<10.0	12.8	56.0
	Potassium	N/A	6780	6360	8250	6160	1680	5510
TAL METAL	Silver	40 ugl	3.71	<4.60	<4.60	3.43	<2.00	<4.60
	Sodium	N/A	14400	10300	13100	14800	9350	10400
	Vanadium	N/A	<10.0	<11.0	<11.0	<10.0	<10.0	15.4
	Zinc	2000 ugl	<20.0	<21.1	<21.1	72.0 BJ	31.5	74.8

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 2 of 9

		Site ID	32M-92-02X	32M-92-02X	32M-92-03X	32M-92-03X	32M-92-03X	32M-92-03X
		Field Sample ID	MX3202X2	MX3202X3	MD3203X1	MD3203X3	MF3203D3	MF3203X2
		Sample Date	03/03/93	06/22/93	11/19/92	06/22/93	06/22/93	03/04/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**1900 J**	**121 J**	**9740**	**11000**	**54.4**	<141
	Arsenic	50 ugl	5.54	<2.00	26.9	9.64	<2.00	2.98
	Barium	2000 ugl	51.3	31.3	61.7	32.7	20.0	9.35
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	30000	22100	17800	14300	15900	15900
	Chromium (total)	100 ugl	<6.02	<10.0	16.0	<10.0	<10.0	<6.02
	Cobalt	N/A	<25.0	<10.0	<25.0	<10.0	<10.0	<25.0
	Copper	1000 ugl	<8.09	<10.0	12.8 B	<10.0	<10.0	<8.09
	Iron	300 ugl	**2330**	137	**13900**	**3800**	<25.0	239 B
	Lead	15 ugl	4.23	<5.00	**21.3**	5.06	>5.00	<1.26
	Magnesium	N/A	3590	2930	3170	2020	1870	1730
	Manganese	50 ugl	**139**	29.7	**1310**	**929**	**894**	**1880**
	Nickel	100 ugl	<34.3	<10.0	<34.3	<10.0	<10.0	<34.3
	Potassium	N/A	2290 B	2200	6330	2640	2350	3210
TAL METAL	Silver	40 ugl	<4.60	<2.00	<4.60	<2.00	<2.00	<4.60
	Sodium	N/A	10500	10200	33000	23300	24400	32400
	Vanadium	N/A	<11.0	<10.0	18.5	<10.0	<10.0	<11.0
	Zinc	2000 ugl	46.2	16.7 BJ	48.0	72.9 B	<20.0	<21.1

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 3 of 9

		Site ID	32M-92-03X	32M-92-03X	32M-92-03X	32M-92-03X	32M-92-04X	32M-92-04X
		Field Sample ID	MF3203X3	MX3203X1	MX3203X2	MX3203X3	MF3204X3	MX3204X1
		Sample Date	06/22/93	11/19/92	03/04/93	06/22/93	06/23/93	11/20/92
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**52.0**	**8440**	**17600 J**	**2100 J**	<25.0	**971**
	Arsenic	50 ugl	<2.00	22.0	48.6	6.79	<2.00	3.62
	Barium	2000 ugl	19.5	54.3	112	34.7	<10.0	18.1
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	0.338 J	<5.00	<5.00
	Calcium	N/A	16000	17700	21100	15000	4970	5330
	Chromium (total)	100 ugl	<10.0	15.5	35.7	7.36 J	<10.0	<6.02
	Cobalt	N/A	<10.0	<25.0	35.5	<10.0	<10.0	<25.0
	Copper	1000 ugl	<10.0	11.9 B	37.0	6.29 J	<10.0	<8.09
	Iron	300 ugl	<25.0	**12800**	**24900**	**3400**	67.3	**746**
	Lead	15 ugl	<5.00	13.3	**20.4**	5.37	<5.00	**30.2**
	Magnesium	N/A	3110	3000	4910	2190	<500	516
	Manganese	50 ugl	**899**	**1260**	**2470**	**1000**	11.9 K	**561**
	Nickel	100 ugl	<10.0	<34.3	<34.3	11.2	<10.0	<34.3
	Potassium	N/A	2290	5800	8880	3070	<1000	1330
TAL METAL	Silver	40 ugl	<2.00	<4.60	<4.60	<2.00	<2.00	<4.60
	Sodium	N/A	24800	34000	33500	26800	<2000	1620
	Vanadium	N/A	<10.0	15.6	30.4	3.05 J	<10.0	<11.0
	Zinc	2000 ugl	<20.0	43.6	96.0	30.2 BJ	<20.0 K	<21.1

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 4 of 9

		Site ID	32M-92-04X	32M-92-04X	32M-92-05X	32M-92-05X	32M-92-05X	32M-92-06X
		Field Sample ID	MX3204X2	MX3204X3	MF3205X3	MX3205X2	MX3205X3	MF3206X3
		Sample Date	03/04/93	06/22/93	06/22/93	03/04/93	06/22/93	06/22/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**203 J**	**391 J**	35.9	**1030 J**	**1900 J**	<25.0
	Arsenic	50 ugl	<2.54	3.32	<2.00	<2.54	3.55	**55.8**
	Barium	2000 ugl	18.8	31.4	21.2	18.1	35.4	25.4
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	6450	5680	39300	27800	38300	8480
	Chromium (total)	100 ugl	<6.02	<10.0	<10.0	<6.02	<10.0	<10.0
	Cobalt	N/A	<25.0	<10.0	<10.0	<25.0	<10.0	<10.0
	Copper	1000 ugl	9.44	<10.0	<10.0	9.99	10.9	<10.0
	Iron	300 ugl	141 B	**368**	30.2	**1350**	**3800**	**2800**
	Lead	15 ugl	9.98	**21.4**	<5.00	10.4	6.74	<5.00
	Magnesium	N/A	639	552	1550	1170	1880	1070
	Manganese	50 ugl	**141**	**216**	11.1	**177**	**580**	**3600**
	Nickel	100 ugl	<34.3	<10.0	<10.0	<34.3	<10.0	<10.0
	Potassium	N/A	988	<1000	2300	2510	3010	2830
TAL METAL	Silver	40 ugl	<4.60	<2.00	<2.00	<4.60	<2.00	<2.00
	Sodium	N/A	1940	2020	3830	3670	4660	4030
	Vanadium	N/A	<11.0	<10.0	<10.0	<11.0	<10.0	<10.0
	Zinc	2000 ugl	<21.1	37.8 BJ	256	200	302 BJ	<20.0

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 5 of 9

		Site ID	32M-92-06X	32M-92-06X	32M-92-06X	32M-92-07X	32M-92-07X	32M-92-07X
		Field Sample ID	MX3206X1	MX3206X2	MX3206X3	MD3207X2	MF3207X3	MX3207X1
		Sample Date	11/19/92	03/04/93	06/22/93	03/04/93	06/22/93	11/19/92
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**3410**	**1500 J**	**1100 J**	**545 J**	<25.0	**3300**
	Arsenic	50 ugl	**96.6**	**790**	**130**	3.30	<2.00	22.6
	Barium	2000 ugl	44.3	30.0	30.1	5.89	<10.0	29.2
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	30900	10600	8080	5610	4700	6880
	Chromium (total)	100 ugl	32.7	20.6	<10.0	<6.02	<10.0	<6.02
	Cobalt	N/A	<25.0	<25.0	<10.0	<25.0	<10.0	<25.0
	Copper	1000 ugl	<8.09	10.3	<10.0	<8.09	<10.0	<8.09
	Iron	300 ugl	**5190**	**13500**	**6000**	**583**	26.3	**4170**
	Lead	15 ugl	13.8	4.66	7.34	<1.26	<5.00	4.99
	Magnesium	N/A	2060	1240	1230	668	507	1280
	Manganese	50 ugl	**2360**	**3640**	**3700**	23.2 B	7.23	**201**
	Nickel	100 ugl	<34.3	<34.3	<10.0	<34.3	<10.0	<34.3
	Potassium	N/A	21200	4820	3150	1750	<1000	3290
TAL METAL	Silver	40 ugl	<4.60	<4.60	<2.00	<4.60	<2.00	<4.60
	Sodium	N/A	7570	4720	3970	3530	3000	3560
	Vanadium	N/A	<11.0	<11.0	<10.0	<11.0	<10.0	<11.0
	Zinc	2000 ugl	<21.1	24.9	88.3 BJ	21.1	<20.0	<21.1

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 6 of 9

		Site ID	32M-92-07X	32M-92-07X	POL-1	POL-1	POL-1	POL-1
		Field Sample ID	MX3207X2	MX3207X3	MF3208X2	MF3208X3	MX3208X1	MX3208X2
		Sample Date	03/04/93	06/22/93	03/04/93	06/21/93	11/20/92	03/04/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**683 J**	**588 J**	**392**	<25.0	**70900**	**60600 J**
	Arsenic	50 ugl	4.16	6.53	<2.54	<2.00	**650**	**920**
	Barium	2000 ugl	7.53	<10.0	<5.00	<10.0	256	281
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	5650	4350	12800	10900	25700	22400
	Chromium (total)	100 ugl	<6.02	<10.0	<6.02	<10.0	**114**	99.0
	Cobalt	N/A	<25.0	<10.0	<25.0	<10.0	44.3	41.0
	Copper	1000 ugl	<8.09	<10.0	<8.09	<10.0	107	92.7
	Iron	300 ugl	**687**	**863**	**547**	<25.0	**90200**	**73500**
	Lead	15 ugl	<1.26	<5.00	<1.26	<5.00	**160**	**120**
	Magnesium	N/A	664	618	824	660	17400	14400
	Manganese	50 ugl	31.5	27.7	16.4 B	<5.00	**2430**	**2260**
	Nickel	100 ugl	<34.3	<10.0	<34.3	<10.0	**111**	92.9
	Potassium	N/A	925	<1000	1870	1070	17400	18400
TAL METAL	Silver	40 ugl	<4.60	<2.00	<4.60	<2.00	<4.60	<4.60
	Sodium	N/A	3700	2970	6450	5920	10400	8120
	Vanadium	N/A	<11.0	<10.0	<11.0	<10.0	85.8	69.6
	Zinc	2000 ugl	<21.1	43.0 BJ	<21.1	30.2	329	300

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 7 of 9

		Site ID	POL-1	POL-3	POL-3	POL-3	POL-3	POL-3
		Field Sample ID	MX3208X3	MF3210X1	MF3210X3	MX3210X1	MX3210X2	MX3210X3
		Sample Date	06/21/93	11/20/92	06/21/93	11/20/92	03/04/93	06/21/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**31000 J**	<141	<25.0	**116000**	**175000 J**	**31000 J**
	Arsenic	50 ugl	**390**	<2.54	<2.00	**68.4**	**370**	**98.6**
	Barium	2000 ugl	112	15.6	17.7	623	954	211
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	**12.8**	<5.00
	Calcium	N/A	15400	22200	17700	45900	59600	23000
	Chromium (total)	100 ugl	45.6	<6.02	<10.0	**169**	**241**	52.1
	Cobalt	N/A	24.7	<25.0	<10.0	81.8	107	35.0
	Copper	1000 ugl	53.0	<8.09	<10.0	116	158	50.5
	Iron	300 ugl	**37000**	<38.8	<25.0	**213000**	**273000**	**59000**
	Lead	15 ugl	**54.7**	1.95	<5.00	**180**	**230**	**70.5**
	Magnesium	N/A	6880	2660	2080	34300	46700	12000
	Manganese	50 ugl	**998**	3.99	<5.00	**5760**	**8100**	**1600**
	Nickel	100 ugl	38.5	<34.3	>10.0	**144**	**206**	53.9
	Potassium	N/A	6170	1840	1220	37100	62500	10900
TAL METAL	Silver	40 ugl	<2.00	<4.60	<2.00	<4.60	<4.60	<2.00
	Sodium	N/A	6620	11700	10600	15100	16900	11700
	Vanadium	N/A	36.3 J	<11.0	<10.0	176	254	57.2 J
	Zinc	2000 ugl	247 BJ	<21.1	39.4	738	935	320 BJ

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File Type: CGW
Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

Part 8 of 9

		Site ID	SHL-15	SHL-15	SHL-15	SHL-15	SHL-25	SHL-25
		Field Sample ID	MF3212X2	MF3212X3	MX3212X2	MX3212X3	MF3211X3	MF3211X3
		Sample Date	06/21/93	07/14/93	03/04/93	07/14/93	06/21/93	07/14/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl		**57.4**	**5340 J**	**1400 J**		<25.0
	Arsenic	50 ugl		2.21	**91.0**	36.6		<2.00
	Barium	2000 ugl		46.4	61.7	53.2		<10.0
	Beryllium	4.0 ugl		<5.00	<5.00	<5.00		<5.00
	Calcium	N/A		22800	14100	22000		16900
	Chromium (total)	100 ugl		<10.0	6.78	<10.0		<10.0
	Cobalt	N/A		10.7	<25.0	12.7		<10.0
	Copper	1000 ugl		<10.0	<8.09	<10.0		<10.0
	Iron	300 ugl		<25.0	**7770**	**2000**		<25.0
	Lead	15 ugl		<5.00	10.7	6.56		<5.00
	Magnesium	N/A		3200	2330	3360		1120
	Manganese	50 ugl		**7700**	**1010**	**7400**		<5.00
	Nickel	100 ugl		10.8	<34.3	14.7		<10.0
	Potassium	N/A		3740	6120	3910		1870
TAL METAL	Silver	40 ugl		<2.00	<4.60	<2.00		<2.00
	Sodium	N/A		10000	6560	9880		15800
	Vanadium	N/A		<10.0	<11.0	<10.0		<10.0
	Zinc	2000 ugl		22.5	62.6	118 BJ		<20.0

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Site Type: WELL

Table 7
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 32
Units: UGL

		Site ID	SHL-25	SHL-25	SHL-25			
		Field Sample ID	MX3211X1	MX3211X2	MX3211X3			
		Sample Date	11/20/92	03/04/93	07/14/93			
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**5200**	**531 J**	**299 J**			
	Arsenic	50 ugl	17.6	3.09	2.98			
	Barium	2000 ugl	27.6	4.67	<10.0			
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00			
	Calcium	N/A	12200	11800	16500			
	Chromium (total)	100 ugl	12.5	<6.02	<10.0			
	Cobalt	N/A	<25.0	<25.0	<10.0			
	Copper	1000 ugl	<8.09	<8.09	<10.0			
	Iron	300 ugl	**6200**	**578**	**336**			
	Lead	15 ugl	3.58	<1.26	<5.00			
	Magnesium	N/A	2290	943	1200			
	Manganese	50 ugl	**107**	11.8	8.09			
	Nickel	100 ugl	<34.3	<34.3	<10.0			
	Potassium	N/A	4170	1920	1910			
TAL METAL	Silver	40 ugl	<4.60	<4.60	<2.00			
	Sodium	N/A	12900	10500	15600			
	Vanadium	N/A	12.7	<11.0	<10.0			
	Zinc	2000 ugl	<21.1	<21.1	<20.0			

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 1 of 4

		Site ID	43MA93-04X	43MA93-04X	43MA93-05X	43MA93-05X	43MA93-05X	43MA93-06X
		Field Sample ID	MX4304X1	MX4304X2	MD4305X2	MX4305X1	MX4305X2	MX4306X1
		Sample Date	08/20/93	11/12/93	11/12/93	08/20/93	11/12/93	08/20/93
Test	Parameter	Screening Values						
EXPLOSIVES	1,3,5-Trinitrobenzene	N/A	<1.00	<1.00	<1.00 UJ	<1.00	<1.00 UJ	<1.00
	1,3-Nitrobenzene	1.0 ugl	<1.00	<1.00	**12.0 C**	**7.66 C**	**8.97 C**	<1.00
	2,4-Dinitrotoluene	30 ugl	<1.00	<1.00	2.56 U	<1.00 C	<1.00	<1.00
	2,6-DNT	N/A	<1.00	<1.00	<1.00	0.772 JC	<1.00	<1.00
	2-Amino-4,6-dinitrotoluene	N/A	<1.00	<1.00	1.07 U	1.81 C	1.39 U	<1.00
	2-Nitrotoluene	N/A	<1.00	<1.00	<1.00	1.52 C	<1.00	<1.00
	3-Nitrotoluene	N/A	<1.00	<1.00	2.40 CJ	5.91 C	5.04 CJ	<1.00
	4-Amino-2,6-dinitrotoluene	N/A	<1.00	<1.00 UJ	<1.00	<1.00	<1.00	<1.00
	4-Nitrotoluene	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	Cyclonite (RDX)	2.0 ugl	<1.00 J	**2.29 U**	0.310 JC	1.20 C	0.638 JC	<1.00 J
	Cyclotetramethylenetetramine	400 ugl	<1.00	<1.00	<1.00 UJ	2.84 JU	<1.00 UJ	<1.00
EXPLOSIVES	Nitrobenzene	N/A	<1.00	<1.00	1.97 U	5.42 JU	1.99 U	<1.00
	Nitroglycerine	N/A	<1.00	<10.0	<10.0	<10.0 R	<10.0	<10.0 R
	PETN	N/A	<10.0 R	<10.0	<10.0	<10.0 R	<10.0	<10.0 R
TCL BNA	1-Methylnaphthalene	N/A						
	13DNAP	N/A						
	2-Methylnapthakene	10 ugl	<10.0	<10.0	<120.0 K	<10.0	<10.0	<10.0
	25DMPA	N/A						
	4,4'-Butylidenebis[2-(1,1-dime	N/A				24.0		
	6-Aminohexanoic acid lactam	N/A						
	Acenapthene	20 ugl	<10.0	<10.0	<12.0 K	<10.0	<10.0	<10.0
TCL BNA	Di-n-butyl-phthalate	N/A						
	Napthalene	20 ugl	<10.0	<10.0	<12.0 K	<10.0	<10.0	<10.0
	PAH	N/A						
	Phenanthrene	300 ugl	<10.0	<10.0	<12.0 K	<10.0	<10.0	<10.0
	Tetradecane	N/A						

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 1 of 4

		Site ID	43MA93-04X	43MA93-04X	43MA93-05X	43MA93-05X	43MA93-05X	43MA93-06X
		Field Sample ID	MX4304X1	MX4304X2	MD4305X2	MX4305X1	MX4305X2	MX4306X1
		Sample Date	08/20/93	11/12/93	11/12/93	08/20/93	11/12/93	08/20/93
Test	Parameter	Screening Values						
TCL Pest	Aldrin	N/A	<0.020 R	<0.020	0.420 J	<1.00 R	0.300 J	<0.250 R
	DDT	0.30 ugl	<0.040	<0.040	**5.00 UJ**	**7.50 U**	**3.60 UJ**	<0.040
	alpha-Benzenehexachloride	N/A	<0.020	<0.020	18.0 UJ	20.0 U	13.0 UJ	<0.020
	alpha-Endosulfan	0.40 ugl	<0.237	<0.020	<0.100	<1.00	0.120	<0.180
	delta-BHC	N/A	<0.020	<0.020	2.60 J	3.30 J	2.00 J	<0.020
TCL VOA	1,2-Dimethylbenzene/ o-xyle	N/A	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	1,2-Dichloroethane	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
TCL VOA	1,3-and/or 1,4-Dimethylbenze	N/A	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	123TMB	N/A						
	Acetone	3000 ugl	<10.0	<10.0	<10.0	23.0	<10.0	<10.0
	Chloroform	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Methylene chloride	5.0 ugl	<5.00	<5.00	4.00 B	<5.00	<5.00	<5.00
	Trichloroethylene (TCE)	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Xylene	N/A						
TPHC	Tot. Petroleum Hydrocarbons	1000 ugl	**1050 J**	**1250 J**	**1070 J**	742 J	438 J	<2000
WQP	Chloride	250000 ugl	24000	11000	**600000**	**800000**	**600000**	68000
	Hardness	N/A	40000	140000	56000	92000	54000	81000
	Nitrate	10000 ugl	4000	3100	3300	1500	3400	2500
	Sulfate	250000 ugl	40000	110000	34000	27000	34000	51000

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 2 of 4

		Site ID	43MA93-06X	43MA93-07X	43MA93-07X	43MA93-08X	43MA93-08X	43MA93-08X
		Field Sample ID	MX4306X2	MX4307X1	MX4307X2	MD4308X1	MX4308X1	MX4308X2
		Sample Date	11/11/93	08/20/93	11/12/93	08/20/93	08/20/93	11/12/93
Test	Parameter	Screening Values						
EXPLOSIVES	1,3,5-Trinitrobenzene	N/A	<1.00	<1.00	<1.00	<1.00 J	<1.00 J	<1.00 J
	1,3-Nitrobenzene	1.0 ugl	<1.00 J	<1.00	<1.00	<1.00 J	<1.00 J	0.201 B
	2,4-Dinitrotoluene	30 ugl	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	2,6-DNT	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	2-Amino-4,6-dinitrotoluene	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	2-Nitrotoluene	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	3-Nitrotoluene	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	4-Amino-2,6-dinitrotoluene	N/A	<1.00	<1.00	0.241 B	<1.00	<1.00	<1.00 J
	4-Nitrotoluene	N/A	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	Cyclonite (RDX)	2.0 ugl	<1.00	<1.00 J	<1.00	<1.00	<1.00	<1.00
	Cyclotetramethylenetetramine	400 ugl	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	Nitrobenzene	N/A	<1.00	<1.00	<1.00	<1.00 J	<1.00 J	<1.00
EXPLOSIVES	Nitroglycerine	N/A	<10.0	<10.0 R	<10.0	<10.0 R	<10.0 R	<10.0
	PETN	N/A	<10.0	<10.0 R	<10.0	<10.0 R	<10.0 R	<10.0
TCL BNA	1-Methylnaphthalene	N/A						
	13DNAP	N/A						
	2-Methylnapthalene	10 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	25DMPA	N/A						
	4,4'-Butylidenebis[2-(1,1-dime	N/A						
	6-Aminohexanoic acid lactam	N/A						
	Acenapthene	20 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Di-n-butyl-phthalate	N/A						
	Napthalene	20 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TCL BNA	PAH	N/A						
	Phenanthrene	300 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Tetradecane	N/A						

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 2 of 4

		Site ID	43MA93-06X	43MA93-07X	43MA93-07X	43MA93-08X	43MA93-08X	43MA93-08X
		Field Sample ID	MX4306X2	MX4307X1	MX4307X2	MD4308X1	MX4308X1	MX4308X2
		Sample Date	11/11/93	08/20/93	11/12/93	08/20/93	08/20/93	11/12/93
Test	Parameter	Screening Values						
TCL Pest	Aldrin	N/A	<0.024 K	<0.020 R	<0.020	<0.020 R	<0.020 R	<0.020
	DDT	0.30 ugl	<0.049 K	<0.040	<0.040	<0.040	<0.040	<0.040
	alpha-Benzenehexachloride	N/A	<0.024 K	<0.020	<0.020	<0.020	<0.020	<0.020
	alpha-Endosulfan	0.40 ugl	<0.024 K	<0.063	<0.020	<0.135	<0.106	<0.020
	delta-BHC	N/A	<0.024 K	<0.020	<0.020	<0.020	<0.020	<0.020
TCL VOA	1,2-Dimethylbenzene/ o-xyle	N/A	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	1,2-Dichloroethane	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
TCL VOA	1,3-and/or 1,4-Dimethylbenze	N/A	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	123TMB	N/A						
	Acetone	3000 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Chloroform	5.0 ugl	<5.00	5.00	<5.00	<5.00	<5.00	<5.00
	Methylene chloride	5.0 ugl	<5.00	<5.00	3.00 B	<5.00	<5.00	4.40 B
	Trichloroethylene (TCE)	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Xylene	N/A						
TPHC	Tot. Petroleum Hydrocarbons	1000 ugl	678 J	<2000	187 J	295	<2000	333 J
WQP	Chloride	250000 ugl	81000	36000	48000		37000	20000
	Hardness	N/A	110000	72000	120000	58000	57000	67000
	Nitrate	10000 ugl	2450	2600	1300	1100 J	1080 J	1400
	Sulfate	250000 ugl	14000	22000	30000		43000	43000

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 3 of 4

		Site ID	43MA93-10X	POL-1	POL-1	POL-1	POL-2	POL-2
		Field Sample ID	MX4310X2	MX3208X1	MX3208X2	MX3208X3	MX3209X1	MX3209X2
		Sample Date	11/12/93	11/20/92	03/04/93	06/21/93	11/20/92	03/04/93
Test	Parameter	Screening Values						
EXPLOSIVES	1,3,5-Trinitrobenzene	N/A	2.18 C			<1.00		
	1,3-Nitrobenzene	1.0 ugl	**1.00 BC**			<1.00		
	2,4-Dinitrotoluene	30 ugl	1.70 U			<1.00		
	2,6-DNT	N/A	4.60 J			<1.00		
	2-Amino-4,6-dinitrotoluene	N/A	1.57 C			<1.00		
	2-Nitrotoluene	N/A	<1.00			<1.00		
	3-Nitrotoluene	N/A	2.81 C			<1.00		
	4-Amino-2,6-dinitrotoluene	N/A	3.96 C			<1.00		
	4-Nitrotoluene	N/A	1.13 C			<1.00		
	Cyclonite (RDX)	2.0 ugl	<1.00 J			<1.00		
EXPLOSIVES	Cyclotetrta-ethylenetetramine	400 ugl	<1.00			<1.00		
	Nitrobenzene	N/A	<1.00			<1.00		
	Nitroglycerine	N/A	11.4 U			<10.0		
	PETN	N/A	16.3 U			<10.0		
TCL BNA	1-Methylnaphthalene							30.0
	13DNAP	N/A	17.0					
	2-Methylnapthalene	10 ugl	**30.0**	<1.70	<1.70			**34.0**
	25DMPA	N/A	7.40					
	4,4'-Butylidenebis[2-(1,1-dime	N/A						
	6-Aminohexanoic acid lactam	N/A		60.0	5.00			
	Acenapthene	20 ugl	<10.0	<1.70	<1.70			2.10
TCL BNA	Di-n-butyl-phthalate	N/A		4.00	<3.70			<3.70

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 3 of 4

		Site ID	43MA93-10X	POL-1	POL-1	POL-1	POL-2	POL-2
		Field Sample ID	MX4310X2	MX3208X1	MX3208X2	MX3208X3	MX3209X1	MX3209X2
		Sample Date	11/12/93	11/20/92	03/04/93	06/21/93	11/20/92	03/04/93
Test	Parameter	Screening Values						
	Napthalene	20 ugl	7.70 J	<0.500	<0.500			3.20
	PAH	N/A	9.20					
	Phenanthrene	300 ugl	6.30 J	<0.500	<0.500			1.30
	Tetradecane	N/A	71.0					
TCL Pest	Aldrin	N/A	<0.100	<0.092	<0.092			<0.092
	DDT	0.30 ugl	<0.200	<0.034	<0.034			<0.034
	alpha-Benzenehexachloride	N/A	<0.400	<0.039	<0.039			<0.039
	alpha-Endosulfan	0.40 ugl	0.130	<0.023	<0.023			<0.023
	delta-BHC	N/A	<0.400	<0.029	<0.029			<0.029
TCL VOA	1,2-Dimethylbenzene/ o-xyle	N/A	9.10					
TCL VOA	1,2-Dichloroethane	5.0 ugl	<5.00	<0.500	<0.500		<0.500	<0.500
	1,3-and/or 1,4-Dimethylbenze	N/A	13.0					
	123TMB	N/A	26.0					
	Acetone	3000 ugl	<10.0	<13.0	<13.0		<13.0	<13.0
	Chloroform	5.0 ugl	<5.00	<0.500	<0.500		<0.500	<0.500
	Methylene chloride	5.0 ugl	<5.00	<2.30	<2.30		<2.30	<2.30
	Trichloroethylene (TCE)	5.0 ugl	<5.00	0.730	<0.500		<0.500	<0.500
	Xylene	N/A		<0.840	<0.840		1.30	13.0
TPHC	Tot. Petroleum Hydrocarbons	1000 ugl	**7820**	<1710	<202			301
WQP	Chloride	250000 ugl	26000					
	Hardness	N/A	71000	62600	57200	67000		57800
	Nitrate	10000 ugl	355					
WQP	Sulfate	250000 ugl	30000					

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File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 4 of 4

		Site ID	POL-2	POL-3	POL-3	POL-3		
		Field Sample ID	MX3209X3	MX3210X1	MX3210X2	MX3210X3		
		Sample Date	06/21/93	11/20/92	03/04/93	06/21/93		
Test	Parameter	Screening Values						
EXPLOSIVES	1,3,5-Trinitrobenzene	N/A	3.04 LC			<1.00		
	1,3-Nitrobenzene	1.0 ugl	<1.00			<1.00		
	2,4-Dinitrotoluene	30 ugl	<1.00			<1.00		
	2,6-DNT	N/A	<1.00			<1.00		
	2-Amino-4,6-dinitrotoluene	N/A	<1.00 LUJ			<1.00		
	2-Nitrotoluene	N/A	<1.00			<1.00		
	3-Nitrotoluene	N/A	0.600 JC			<1.00		
	4-Amino-2,6-dinitrotoluene	N/A	1.91 C			<1.00		
	4-Nitrotoluene	N/A	1.38 C			<1.00		
	Cyclonite (RDX)	2.0 ugl	0.673 JC			<1.00		
	Cyclotetramenthylenetetramine	400 ugl	<1.00			<1.00		
	Nitrobenzene	N/A	1.81 JU			<1.00		
EXPLOSIVES	Nitroglycerine	N/A	<10.0			<10.0		
	PETN	N/A	<10.0			<10.0		
TCL BNA	1-Methylnaphthalene	N/A						
	13DNAP	N/A						
	2-Methylnapthalene	10 ugl		<.70	<1.70			
	25DMPA	N/A						
	4,4'-Butylidenebis[2-(1,1-dime	N/A						
	6-Aminohexanoic acid latem	N/A			20.0			
	Acenapthene	20 ugl		<1.70	<1.70			
	Di-n-butyl-phthalate	N/A		<3.70	<3.70			
	Napthalene	20 ugl		<0.500	<0.500			
TCL BNA	PAH	N/A						
	Phenanthrene	300 ugl		<0.500	<0.500			
	Tetradecane	N/A						

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

File Type: CGW
Site Type: WELL

Table 8
Chemical Summary Report For Organics and Water Quality Parameters in Groundwater
Area of Contamination: 43A
Units: UGL

Part 4 of 4

		Site ID	POL-2	POL-3	POL-3	POL-3		
		Field Sample ID	MX3209X3	MX3210X1	MX3210X2	MX3210X3		
		Sample Date	06/21/93	11/20/92	03/04/93	06/21/93		
Test	Parameter	Screening Values						
TCL Pest	Aldrin	N/A		<0.092	<0.092			
	DDT	0.30 ugl		<0.034	<0.034			
	alpha-Benzenehexachloride	N/A		<0.039	<0.039			
	delta-BHC	N/A		<0.029	<0.029			
TCL VOA	1,2-Dimethylbenzene/ o-xyle	N/A						
	1,2-Dichloroethane	5.0 ugl		<0.500	0.790			
	1,3-and/or 1,4-Dimethylbenze	N/A						
	123TMB	N/A						
TCL VOA	Acetone	3000 ugl		<13.0	<13.0			
	Chloroform	5.0 ugl		0.730	<0.500			
	Methylene chloride	5.0 ugl		<2.30	<2.30			
	Trichloroethylene (TCE)	5.0 ugl		**19.0**	**17.0**			
	Xylene	N/A		<0.840	<0.840			
TPHC	Tot. Petroleum Hydrocarbons	1000 ugl		<1710	<207			
WQP	Chloride	250000 ugl						
	Hardness	N/A	61000	113000	126000	110000		
	Nitrate	10000 ugl						
	Sulfate	250000 ugl						

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 1 of 7

		Site ID	43MA93-04X	43MA93-04X	43MA93-04X	43MA93-04X	43MA93-05X	43MA93-05X
		Field Sample ID	MF4304X1	MF4304X2	MX4304X1	MX4304X2	MD4305F2	MD4305X2
		Sample Date	08/20/93	11/12/93	08/20/93	11/12/93	11/12/93	11/12/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**104 B**	**178**	**2220**	**3970**	49.3	**122**
	Antimony	6.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Arsenic	50 ugl	<2.00	1.35 J	30.2	**62.3**	6.39	6.00
	Barium	2000 ugl	21.2	30.1	25.7	41.6	33.4	35.8
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	0.441 J	<5.00	<5.00
	Cadmium	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	12900	40000	12200	37500	19100	19800
	Chromium (total)	100 ugl	4.96 BJ	<10.0	**4.85 J**	6.80 J	4.89 J	4.73 J
	Cobalt	N/A	5.75 J	<10.0	4.50 J	4.05 J	<10.0	<10.0
	Copper	1000 ugl	<10.0	<10.0	4.31 BJ	4.06 J	<10.0	<10.0
	Iron	300 ugl	23.0 J	**14.4 J**	**2960**	**5340**	39.1	114
	Lead	15 ugl	<5.00	<5.00	3.60 J	**4.78 J**	<5.00	<5.00
	Magnesium	N/A	1700	10100	2220	**10400**	**1500**	1570
TAL METAL	Manganese	50 ugl	**596**	**513**	**659**	**559**	19.9	21.5
	Nickel	100 ugl	<10.0	<10.0	9.29 J	14.3	<10.0	<10.0
	Potassium	N/A	4690	4090	5110	4190	7680	7640
	Selenium	50 ugl	<2.00	<2.00	1.67 KJ	<2.00	<2.00	<2.00
	Silver	40 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Sodium	N/A	19000	14200	20600	12100	410000	420000
	Thallium	2.0 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Vanadium	NA	<10.0	<10.0	<10.0	6.37 J	<10.0	<10.0
	Zinc	2000 ugl	7.97 BJ	1.21 B	21.1 B	30.7 B	190	200

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 2 of 7

		Site ID	43MA93-05X	43MA93-05X	43MA93-05X	43MA93-05X	43MA93-06X	43MA93-06X
		Field Sample ID	MF4305X1	MF4305X2	MX4305X1	MX4305X2	MF4306X1	MF4306X2
		Sample Date	08/20/93	11/12/93	08/20/93	11/12/93	08/20/93	11/11/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**69.9 B**	**92.3**	**149**	**80.6**	**141 B**	**446**
	Antimony	6.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Arsenic	50 ugl	20.5	63.9	41.0	5.57	<2.00	0.960 J
	Barium	2000 ugl	18.7	33.7	19.5	33.8	64.1	81.0
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	0.125 J	0.311 J
	Cadmium	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	33600	19600	32100	19000	15600	19900
	Chromium (total)	100 ugl	27.9	4.63 J	27.9	3.24 J	<10.0	<10.0
	Cobalt	N/A	<10.0	<10.0	<10.0	<10.0	4.20 J	<10.0
	Copper	1000 ugl	1.70 J	<10.0	4.10 BJ	<10.0	<10.0	3.54 J
	Iron	300 ugl	<25.0	100	202	87.6	<25.0	19.4 J
	Lead	15 ugl	<5.00	<5.00	<5.00	3.63 J	<5.00	2.32 J
	Magnesium	N/A	2870	1540	2870	1490	2500	2280
TAL METAL	Manganese	50 ugl	3.99 BJ	21.3	9.93	19.8	**205**	**145**
	Nickel	100 ugl	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Potassium	N/A	29200	7740	31300	7910	3320	2620
	Selenium	50 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Silver	40 ugl	<2.00	4.02	<2.00	<2.00	<2.00	<2.00
	Sodium	N/A	270000	420000	310000	420000	38900	49400
	Thallium	2.0 ugl	1.01 J	<2.00	<2.00	<2.00	<.2.00	<2.00
	Vanadium	N/A	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
	Zinc	2000 ugl	6.01 BJ	196	22.6 B	191	4.17 BJ	9.99 B

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 3 of 7

		Site ID	43MA93-06X	43MA93-06X	43MA93-07X	43MA93-07X	43MA93-07X	43MA93-07X
		Field Sample ID	MX4306X1	MX4306X2	MF4307X1	MF43072X	MX4307X1	MX4307X2
		Sample Date	08/20/93	11/11/93	08/20/93	11/12/93	08/20/93	11/12/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**22000**	**23000**	22.7 BJ	31.5	**18000**	**19000**
	Antimony	6.0 ugl	5.67	4.08 J	<5.00	5.00	3.44 J	<5.00
	Arsenic							
	Barium	2000 ugl	186	217	32.6	63.5	**210**	**160**
	Beryllium	4.0 ugl	1.60 J	1.96 J	<5.00	<5.00	1.12 J	1.41 J
	Cadmium	5.0 ugl	<5.00	4.56 B	<5.00	<5.00	<5..00	<5.00
	Calcium	N/A	17800	23600	16000	34300	17100	31000
	Chromium (total)	100 ugl	49.6	64.7	<10.0	<10.0	49.1	47.0
	Cobalt	N/A	51.6	54.0	<10.0	<10.0	21.9	27.6
	Copper	1000 ugl	68.1	85.3	<10.0	<10.0	640	71.3
	Iron	300 ugl	**44000**	**53000**	**418**	**396**	**47000**	**49000**
	Lead	15 ugl	**98.8**	**59.4**	<5.00	<5.00	**61.5**	**43.9**
	Magnesium	N/A	8880	11200	1490	2860	7090	9550
TAL METAL	Manganese	50 ugl	**2200**	**1900**	**96.2**	**107**	**691**	**705**
	Nickel	100 ugl	82.5	92.6	<10.0	<10.0	71.3	78.7
	Potassium	N/A	6560	6440	2140	2080	4850	4340
	Selenium	50 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Silver	40 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Sodium	N/A	41400	51500	27200	25900	31700	22600
	Thallium	2.0 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Vanadium	N/A	37.4	53.6	<10.0	<10.0	34.2	42.0
	Zinc	2000 ugl	118	357	5.70 BJ	8.74 B	82.9	96.2

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 4 of 7

		Site ID	43MA93-08X	43MA93-08X	43MA93-08X	43MA93-08X	43MA93-08X	43MA93-08X
		Field Sample ID	MD4308F1	MD4308X1	MF4308X1	MF4308X2	MX4308X1	MX4308X2
		Sample Date	08/20/93	08/20/93	08/20/93	11/12/93	08/20/93	11/12/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	34.6 B	**1850**	**86.2**	38.6	1760	**2800**
	Antimony	6.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Arsenic	50 ugl	<2.00	14.7	<2.00	<2.00	15.4	23.1
	Barium	2000 ugl	31.4	50.2	30.6	32.7	50.1	54.8
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Cadmium	5.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Calcium	N/A	19400	18600	19600	22000	18400	21300
	Chromium (total)	100 ugl	<10.0	7.21 J	<10.0	<10.0	5.37 J	6.44 J
	Cobalt	N/A	4.92 J	<10.0	<10.0	<10.0	<10.0	2.65 J
	Copper	1000 ugl	<10.0	5.39 B	<10.0	<10.0	4.40 BJ	5.50 J
	Iron	300 ugl	18.3 J	**3210**	24.5 J	24.4 J	**3250**	**4900**
	Lead	15 ugl	<5.00	7.66	<5.00	<5.00	7.24	11.1
	Magnesium	N/A	2180	2660	2180	2620	2640	3270
TAL METAL	Manganese	50 ugl	25.1	**103**	25.8	19.1	**105**	**123**
	Nickel	100 ugl	9.82 J	11.1	<10.0	9.58 J	14.4	15.5
	Potassium	N/A	2050	2820	2200	1330	2710	873 J
	Selenium	50 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Silver	40 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Sodium	N/A	8800	9820	8880	12400	9660	12600
	Thallium	2.0 ugl	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
	Vanadium	N/A	<10.0	<10.0	<10.0	<10.0	<10.0	5.24 J
	Zinc	2000 ugl	10.8 B	44.9 B	10.5 BJ	11.0 B	24.2 B	33.2 B

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

		Site ID	43MA93-10X	43MA93-10X	POL-1	POL-1	POL-1	POL-1
		Field Sample ID	MF4310X2	MX4310X2	MF3208X2	MF3208X3	MX3208X1	MX3208X2
		Sample Date	11/12/93	11/12/93	03/04/93	06/21/93	11/20/92	03/04/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	28.1	**113**	**392**	<25.0	**70900**	**60600 J**
	Antimony	6.0 ugl	<5.00	<5.00	<3.03	<5.00	<3.03	<3.03
	Arsenic	50 ugl	15.1	16.8	<2.54	<2.00	**650**	**920**
	Barium	2000 ugl	27.2	27.9	5.00	<10.0	256	281
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Cadmium	5.0 ugl	<5.00	<5.00	<4.01	<5.00	<4.01	<4.01
	Calcium	N/A	23100	23400	12800	10900	25700	22400
	Chromium (total)	100 ugl	<10.0	<10.0	<6.02	<10.0	**114**	99.0
	Cobalt	N/A	9.84 J	9.67 J	<25.0	<10.0	44.3	41.0
	Copper	1000 ugl	<10.0	<10.0	<8.09	<10.0	107	92.7
	Iron	300 ugl	**1560**	**1650**	**547**	<25.0	**90200**	**73500**
	Lead	15 ugl	4.05 J	9.47	<1.26	<5.00	**160**	**120**
	Magnesium	N/A	2990	2960	824	660	17400	14400
TAL METAL	Manganese	50 ugl	**887**	**859**	16.4 B	<5.00	**2430**	**2260**
	Nickel	100 ugl	10.2	13.7	<34.3	<10.0	**111**	92.9
	Potassium	N/A	1910	1740	1870	1070	17400	18400
	Selenium	50 ugl	<2.00	<2.00	<3.02	<2.00	<3.02	<3.02
	Silver	40 ugl	<2.00	<2.00	<4.60	<2.00	<4.60	<4.60
	Sodium	N/A	17800	16400	6540	5920	10400	8120
	Thallium	2.0 ugl	<2.00	<2.00	<6.99	<2.00	<6.99	<6.99
	Vanadium	N/A	<10.0	<10.0	<11.0	<10.0	85.8	69.6
	Zinc	2000 ugl	15.3 B	13.2 B	<21.1	30.2	329	300

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 6 of 7

		Site ID	POL-1	POL-2	POL-2	POL-2	POL-3	POL-3
		Field Sample ID	MX3208X3	MF3209X3	MX3209X2	MX3209X3	MF3210X1	MF3210X3
		Sample Date	06/21/93	06/21/93	03/04/93	06/21/93	11/20/92	06/21/93
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**31000 J**	<25.0	**11700 J**	**3500**	<141	25.0
	Antimony	6.0 ugl	<5.00	<5.00	<3.03	<5.00	<3.03	<5.00
	Arsenic	50 ugl	**390**	<2.00	**120**	23.3	<2.54	<2.00
	Barium	2000 ugl	112	11.2	41.7	26.1	15.6	17.7
	Beryllium	4.0 ugl	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
	Cadmium	5.0 ugl	<5.00	<5.00	<4.01	<5.00	<4.01	<5.00
	Calcium	N/A	15400	18200	19100	17900	22200	17700
	Chromium (total)	100 ugl	45.6	<10.0	36.2	11.2	<6.02	<10.0
	Cobalt	N/A	24.7	<10.0	<25.0	<10.0	<25.0	<10.0
	Copper	1000 ugl	53.0	<10.0	18.9	10.4	<8.09	<10.0
	Iron	300 ugl	**37000**	<25.0	**15000**	**5900**	<38.8	<25.0
	Lead	15 ugl	**54.7**	<5.00	**16.1**	8.59	1.95	<5.00
	Masgnesium	N/A	6880	2880	4850	3870	2660	2080
TAL METAL	Manganese	50 ugl	**998**	**511**	**502**	**632**	3.99	<5.00
	Nickel	100 ugl	38.5	<10.0	<34.3	<10.0	<34.3	<10.0
	Potassium	N/A	6170	1640	2960	1870	1840	1220
	Selenium	50 ugl	<2.00	<2.00	<3.02	<2.00	<3.02	<2.00
	Silver	40 ugl	<2.00	<2.00	<4.60	<2.00	<4.60	<2.00
	Sodium	N/A	6620	15700	15100	15300	11700	10600
	Thallium	2.0 ugl	<2.00	<2.00	<6.99	<2.00	<6.99	<2.00
	Vanadium	N/A	36.3 J	<10.0	13.6	<10.0	<11.0	<10.0
	Zinc	2000 ugl	247 BJ	<20.0	34.8	91.3 B	<21.1	39.4

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File Type: CGW
Site Type: WELL

Table 9
Chemical Summary Report For Metals in Groundwater
Area of Contamination: 43A
Units: UGL

Part 7 of 7

		Site ID	POL-3	POL-3	POL-3			
		Field Sample ID	MX3210X1	MX3210X2	MX3210X3			
		Sample Date	11/20/92	03/04/93	06/2/93			
Test	Parameter	Screening Values						
TAL METAL	Aluminum	50 ugl	**116000**	**175000 J**	**31000 J**			
	Antimony	6.0 ugl	<3.03	<3.03	<5.00			
	Arsenic	50 ugl	**68.4**	**370**	**98.6**			
	Barium	2000 ugl	623	954	211			
	Beryllium	4.0 ugl	<5.00	**12.8**	5.00			
	Cadmium	5.0 ugl	<4.01	<4.01	<5.00			
	Calcium	N/A	45900	59600	23000			
	Chromium (total)	100 ugl	**169**	**241**	52.1			
	Cobalt	N/A	81.8	107	35.0			
	Copper	1000 ugl	116	158	50.5			
	Iron	300 ugl	**213000**	**273000**	**59000**			
	Lead	15 ugl	**180**	**230**	**70.5**			
	Magnesium	N/A	34300	46700	12000			
TAL METAL	Manganese	50 ugl	**5760**	**8100**	**1600**			
	Nickel	100 ugl	**144**	**206**	53.9			
	Potassium	N/A	37100	62500	10900			
	Selenium	50 ugl	<3.02	<3.02	<2.00			
	Silver	40 ugl	<4.60	<4.60	<2.00			
	Sodium	N/A	15100	16900	11700			
	Thallium	2.0 ugl	<6.99	<6.99	<2.00			
	Vanadium	N/A	176	254	57.2 J			
	Zinc	2000 ugl	738	935	320 BJ			

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CBX
Site Type: ASPH

Table 10
Chemical Summary Report For Asphalt Cores
Area of Contamination: 32
Units: UGG

Part 1 of 3

		Site ID	32C-92-01X	32C-92-02X	32C-92-03X	32C-92-04X	32C-92-04X	32C-92-05X
		Field Sample ID	CX3201X1	CX3202X1	CX3203X1	CD3204X1	CX3204X1	CX3205X1
		Sample Date	10/19/92	10/19/92	10/19/92	10/20/92	10/20/92	10/20/92
Test	Parameter	Screening Values						
TCL Pest	DDE	2.0 ugg	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	DDT	2.0 ugg	0.008 C	<0.007	<0.007	<0.007	<0.007	<0.007
	PCB-1248	2.0 ugg	<0.082	<0.082	<0.082	<0.082	<0.082	<0.082
	PCB-1254	2.0 ugg	<0.082	<0.082	<0.082	0.253 C	0.191 C	0.500 C
	PCB-1260	2.0 ugg	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

File Type: CBX
Site Type: ASPH

Table 10
Chemical Summary Report For Asphalt Cores
Area of Contamination: 32
Units: UGG

Part 2 of 3

		Site ID	32C-92-06X	32C-92-07X	32C-92-08X	32C-92-09X	32C-92-10X	32C-92-11X
		Field Sample ID	CX3206X1	CX3207X1	CX3208X1	CX3209X1	CX3210X1	CX3211X1
		Sample Date	10/19/92	10/20/92	10/20/92	10/20/92	10/20/92	10/20/92
Test	Parameter	Screening Values						
TCL Pest	DDE	2.0 ugg	<0.008	<0.008	0.110 C	0.048 C	0.077 C	0.029 C
	DDT	2.0 ugg	<0.007	<0.007	0.620 C	0.130 C	0.270 C	0.290 C
	PCB-1248	2.0 ugg	<0.082	<0.082	<0.082	<0.082	<0.082	0.145 C
	PCB-1254	2.0 ugg	0.239 C	5.50 C	9.30 C	2.60 C	4.60 C	<0.082
	PCB-1260	2.0 ugg	<0.080	<0.080	0.038 C	<0.080	<0.080	<0.080

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File Type: CBX
Site Type: ASPH

Table 10
Chemical Summary Report For Asphalt Cores
Area of Contamination: 32
Units: UGG

Part 3 of 3

		Site ID	32C-92-12X	32C-92-13X	32C-92-14X	32c-92-15X		
		Field Sample ID	CX3212X1	CX3213X1	CX3214X1	CX3215X1		
		Sample Date	10/20/92	10/20/92	10/19/92	10/19/92		
Test	Parameter	Screening Values						
TCL Pest	DDE	2.0 ugg	0.020 C	0.017 C	0.012 C	0.010 C		
	DDT	2.0 ugg	0.069 C	0.078 C	0.019 C	0.026 C		
	PCB-1248	2.0 ugg	<0.082	0.730 C	<0.082	0.388 C		
	PCB-1254	2.0 ugg	0.800 C	<0.082	0.231 C	<0.082		
	PCB-1260	2.0 ugg	<0.080	<0.080	<0.080	0.177 C		

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File Type: CSW
Site Type: POND

Table 11
Chemical Summary Report For Surface Water
Area of Contamination: 32
Units: UGL

Part 1 of 1

		Site ID	32C-92-01X	32D-92-01X				
		Field Sample ID	WD3201X1	WX3201X1				
		Sample Date						
Test	Parameter	Screening Values						
TAL METAL	Aluminum	N/A	805 J	255 J				
	Antimony	14 ugl	5.18	6.43				
	Arsenic	0.018 ugl	**2.77 J**	<2.54 J				
	Barium	N/A	26.7 J	12.3 J				
	Cadmium	N/A	14.0	16.2				
	Calcium	N/A	5180	4730				
	Copper	12 ugl	**28.0**	**25.3**				
	Iron	N/A	1500 J	566 J				
	Lead	3.2 ugl	**49.1 J**	**33.1 J**				
	Magnesium	N/A	1060	877				
	Manganese	N/A	94.5 BJ	58.8 J				
	Potassium	N/A	2620 B	2500 B				
	Sodium	N/A	3180	2910				
	Zinc	110 ugl	**258**	**267**				
WQP	Alkalinity	N/A	17000	14000				
	Chloride	N/A	3970	2990				
	Hardness	N/A	16000	16000				
	Nitrogen, Kjeldahl Method	N/A	524	562				
	Nitrogen, NO3/NO2	N/A	620	620				
	Phosphate	N/A	88.1	87.1				
	Total suspended solids	N/A	25000 K	29000 K				

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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File Type: CSE
Site Type: POND

Table 12
Chemical Summary Report For Sediments
Area of Contamination: 32
Units: UGL

Part 1 of 1

		Site ID	32C-92-01X	32D-92-01X	32D-92-02X	32D-93-03X	32D-93-03X	32D-93-04X	32D-93-04X
		Field Sample ID	DD3201X1	DX3201X1	DX3202X1	DX3203X1	DX3203X1	DX3204X1	DX3204X1
		Sample Date	10/20/92	10/20/92	10/20/92	06/22/93	07/14/93	06/22/93	07/14/93
Test	Parameter	Screening Values							
TAL METAL	Aluminum	1000000 ugg	4120	3820	6380	12000		4800	
	Antimony	40 ugg	<1.09	<1.09	2.85	1.91		<0.500	
	Arsenic	30 ugg	9.12	11.3	18.0	25.2		12.3	
	Barium	72000 ugg	29.7	22.6	72.4	32.2		12.5	
	Cadmium	80 ugg	2.66	3.33	17.1	8.97		3.33	
	Calcium	N/A	986 J	2600 J	2040	1360		<500	
	Chromium (total)	5000 ugg	9.15	12.9	32.6	30.8		11.6	
	Cobalt	N/A	3.84	5.02	7.19	10.0		5.24	
	Copper	38000 ugg	10.7	13.5	41.3	57.6		10.5	
	Iron	N/A	11200	11100	14700	16000		6500	
	Lead	500 ugg	55.0	69.0	220	119		22.0	
	Magnesium	N/A	2060	2800	3010	3380		1320	
	Manganese	5100 ugg	160	215	344	152		86.7	
	Mercury	60 ugg	<0.050	<0.050	0.182	<0.100		<0.100	
	Nickel	700 ugg	14.3	19.3	47.4	107		25.2	
TAL METAL	Potassium	N/A	500	407	1140	654		313	
	Silver	200 ugg	<0.589	<0.589	0.874	<0.200		<0.200	
	Sodium	N/A	231	210	323	<200		<200	
	Vanadium	7200 ugg	10.3	16.9	26.3	20.4		8.19	
	Zinc	5000 ugg	85.1	73.0	389	350		71.6	
TCL Pest	DDD	10 ugg	<0.008	0.011 C	<0.083		<0.010		0.011 JC
	DDT	9.0 ugg	0.030 C	0.028 C	0.360 C		<0.010		<0.010
	Lindane	N/A	<0.006	<0.006	<0.006		0.021 JC		<0.005
	PCB1254	2.0 ugg	0.306 C	0.250 C	4.90 C		<0.100		<0.100
TOC	Total Organic Carbon	N/A	2550 J	9240 J	36800 J	212000		42400	
TPHC	Tot. Petroleum Hydrocarbons	5000 ugg	3000	2380	2690	169		161	

Source: USAEC IRDMIS Level 3/E & E, 1994 - Codes following values indicate data usability. (See key above)

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Table 13
Chemical Summary Report of Air Sampling Results For
Metals and PM_{10}
Area of Contamination: 32
(ug/m^3)

Parameters	AX3201P1	AX3202P1	AX3203P1	AB3200P1*
Silver	<0.064	<0.056	<0.055	<0.40
Aluminum	5.87	5.99	6.13	40.23
Arsenic	<0.0044	<0.044	<0.044	<0.034
Barium	<0.14	<0.13	<0.13	<1.00
Calcium	13.12	14.62	13.33	102.92
Cadmium	<0.082	<0.071	<0.060	<0.55
Cobalt	<0.0086	<0.0079	<0.0078	<0.061
Chromium	0.089	0.089	0.091	0.80
Copper	0.0096	<0.0051	0.0022	0.016
Iron	0.40	0.40	0.38	3.22
Mercury	<0.018	<0.016	<0.015	<0.12
Potassium	2.29	2.18	1.62	14.52
Magnesium	<1.53	<1.84	2.42	12.34
Manganese	0.019	0.027	0.012	0.092
Sodium	4.06	5.17	7.80	44.74
Nickel	0.020	0.015	0.012	0:13
Lead	<0.015	0.0059	0.0072	0.064
Antimony	<0.10	<0.10	<0.11	<0.87
Selenium	<0.0047	0.0026	<0.0045	<0.032
Thallium	<0.015	<0.14	<0.014	<0.11
Vanadium	<0.025	<0.023	<0.024	<0.18
Zinc	0.11	0.095	0.96	0.64
PM_{10}	NA	10.0	11.5	-

* Blank values are in ug/filter.
Source: Ecology and Environment, Inc., 1994.

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Table 14
Chemical Summary Report For Air Sampling Results For
PCB/Pesticides
Area of Contamination: 32
(ng/m3)

Parameters	AX3201B1 (9/23/92)	AX3202B1 (9/23/92)	AX3203B1 (9/23/92)	AD3203B1* (9/23/92)	AB3200B1* (9/23/92)	METHOD BLANK*
alpha-BHC	<O.30	<0.30	0.59	0.37	<0.12	<0.12
PCB-1248	<6.2	<6.2	8.9	10.4	<2.5	<2.5

* Analytical results for blank samples are in ug/PUF

Source: Ecology and Environment, Inc., 1994

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Table 15
Summary of Estimated Excess Cancer Risks
Associated with AOC 32

Pathway	Case	Receptor		Risk Contributions by Exposure Route[2]	Risk Contributions by Chemical[2]
		Adult	Adolescent		
Exposure Scenarios Potentially Complete Under Current Site Conditions					
Current Worker, Soil	RME	9.2×10^{-5}	-	Soil ingestion-26% Dermal contact-72% Vapor inhalation-2%	PCBs-74% Arsenic-20% Chrysene-4%
	Average	1.8×10^{-5}	-		
Current Trespasser,Soil	RME	7.9×10^{-6}	1.9×10^{-6}	Soil ingestion-28% Dermal contact-72% Vapor inhalation-<1%	PCBs-71% Arsenic-22% Chrysene-4%
	Average	1.6×10^{-6}	3.7×10^{-7}		
Exposure Scenarios Pontentially Complete Under Possible Future Site Conditions					
Soil and Air:					
Future Construction Worker,Soil	RME	1.7×10^{-5}	-	Soil ingestion-65% Dermal contact-15% Vapor inhalation-3% Particle inhalation-17%	Arsenic-61% PCBs-24% Chrysene-5% Nickel-3% Chromium(VI)-3% Cadmium-2% Beryllium-1%
	Average	2.1×10^{-6}	-		
Future Site Worker, Outdoor Soil	RME	1.3×10^{-4}	-	Soil ingestion-38% Dermal contact-60% Vapor inhalation-2%	PCBs-54% Arsenic-40% Beryllium-1%
	Average	1.3×10^{-5}	-		
Future Site Worker, Indoor Air Exposure	RME	8.8×10^{-7}	-	Vapor inhalation-100%	1,4-Dichlorobenzene-46% Trichloroethene-32% 1,2-Dichloroethane-19%
	Average	1.7×10^{-7}	-		
Groundwater:					
Future Site Worker, Unfiltered Groundwater, DRMO Yards	RME	6.0×10^{-3}	-	Drinking water ingestion-100%	Arsenic-61% Beryllium-3%
	Average	1.2×10^{-3}	-		
Future Site Worker, Filtered Groundwater, DRMO Yards	RME	5.7×10^{-5}	-	Drinking water ingestion-100%	Beryllium[b]-66% Arsenic-33%
	Average	4.7×10^{-5}	-		
Future Site Worker Filtered Groundwater, DRMO Yards	RME	2.0×10^{-5}	-	Drinking water ingestion-100%	Arsenic-94% TCE-4%
	Average	9.8×10^{-6}	-		
Future Site Worker, Unfiltered Groundwater, UST Area	RME	5.2×10^{-3}	-	Drinking water ingestion-100%	Arsenic-95% PCB-4% 1,4-Dichlorobenzene-1%
	Average	5.1×10^{-4}	-		

Table 15
Summary of Estimated Excess Cancer Risks
Associated with AOC 32

Pathway	Case	Receptor		Risk Contributions by Exposure Route[2]	Risk Contributions by Chemical[2]
		Adult	Adolescent		
Future Site Worker, Filtered Groundwater, UST Area	RME	6.2×10^{-4}	-	Drinking water ingestion-100%	Arsenic-57% PCB-33% 1,4-Dichlorobenzene-1% Trichloroethene-1%
	Average	1.2×10^{-4}	-		

a RME case for the receptor showing the greatest risk.
b Was not detected in the filtered groundwater. Risks are associated with a concentration equal to one half the quantitation limit.

Source: Ecology and Environment, Inc. 1994.

Table 16
Summary of Estimated Hazard Indices for Noncarcinogenic Effects Associated with AOC 32

Pathway	Case	Receptor		Risk Contributions by Exposure Route[2]	Hazard Index by Chemical[2]
		Adult	Adolescent[b]		
Exposure Scenarios Potentially Complete Under Current Site Conditions					
Current Worker, Soil	RME	5.8	-	Soil ingestion-20% Dermal contact-77% Vapor inhalation-2%	PCB_s-4.4 Lead[c]-0.9
	Average	0.80	-		
Current Trespasser, Soil	RME	0.41	0.49	Soil ingestion-25% Dermal contact-75% Vapor inhalation-<1%	-
	Average	0.057	0.067		
Exposure Scenarios Potentially Complete Under Possible Future Site Conditions					
Soil and Air:					
Future Construction Worker, Soil[b]	RME	28	-	Soil ingestion-54% Dermal contact-28% Vapor inhalation-6% Particle inhalation-12%	PCB_s[c]-13 Lead[c]-6 Arsenic-2 Mercury-1 Chromium(VI)[d]-2
	Average	2.4	-		
Future Site Worker, Outdoor Soil	RME	6.0	-	Soil ingestion-22% Dermal contact-76% Vapor inhalation	PCB_s[c]-4.4 Lead[c]-0.9
	Average	0.39	-		
Future Site Worker, Indoor Soil	RME	0.043	-	Vapor inhalation-100%	-
	Average	0.007	-		
Groundwater:					
Future Site Worker, Unfiltered Groundwater, DRMO Yards	RME	49	-	Drinking water ingestion-100%	Arsenic-30 Manganese-16 Lead[c]-3
	Average	12	-		
Future Site Worker, Filtered Groundwater DRMO Yard	RME	15	-	Drinking water ingestion-100%	Manganese-15
	Average	3.7	-		
Future Site Worker, Filtered Groundwater (Excluding Nondetected Metals), DRMO Yards	RME	15	-	Drinking water ingestion-100%	Manganese-15
	Average	3.7	-		
Future Site Worker, Unfiltered Groundwater UST Area	RME	48	-	Drinking water ingestion-100%	Arsenic-26 PCB[c]-15 Manganese-7
	Average	7.3	-		
Future Site Worker, Filtered Groundwater UST Area	RME	24	-	Drinking water ingestion-100%	PCB[c]-15 Manganese-7 Arsenic-2
	Average	5.1			

a RME case for receptor showing the greatest risk.
b Hazard indices for adolescent trespassers and future construction workers were calculated using subchronic RfDs.
c Hazard indices are based on RfDs taken from MADEP Residential Shortform (MADEP 1992), not EPA-approved.
d Chromium (VI) hazard is due to particle inhalation.

Source: Ecology and Environment, Inc. 1994.

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Table 17
Summary of Estimated Excess Cancer Risks Associated with AOC 43A

Pathway	Case	Receptor		Risk Contributions by Exposure Route[2]	Risk Contributions by Chemical[2]
		Adult	Adolescent		
Exposure Scenarios Potentially Complete Under Current Site Conditions					
Current Worker, Soil	RME	2.1×10^{-5}	-	Ingestion-99% Dermal contact-21%	Arsenic-85% Carcinogenic PAHs-15%
	Average	2.8×10^{-6}	-		
Current Trespasser, Soil	RME	9.7×10^{-6}	2.3×10^{-6}	Ingestion-81% Dermal contact-19%	Arsenic-84% PAHs-15%
	Average	1.3×10^{-6}	3.2×10^{-7}		
Exposure Scenarios Potentially Complete Under Possible Future Site Conditions					
Soil:					
Future Construction Worker, Soil	RME	2.2×10^{-5}	-	Ingestion-36% Dermal contact-3% Inhalation-11%	Arsenic-83% Carcinogenic PAHs-17%
	Average	3.0×10^{-6}	-		
Future Worker, Soil	RME	1.0×10^{-4}	-	Ingestion-79% Dermal contact-21%	Arsenic-85% Carcinogenic PAHs-15%
	Average	1.4×10^{-5}	-		
Groundwater:					
Future Worker, Unfiltered Grounwater	RME	1.9×10^{-4}	-	Ingestion-100%	Beryllium->99%
	Average	4.1×10^{-5}	-		
Future Worker, Filtered Groundwater	RME	3.3×10^{-6}	-	Ingestion-100%	Beryllium-56% Trichloreothene-22% Cyclonite-14% 1,2-Dichloroethane-8%
	Average	2.4×10^{-6}	-		

a. RME case for the receptor showing the greatest risk.

Source: Ecology and Environment, Inc. 1994.

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Table 18
Summary of Estimated Hazard Indices for Noncarcinogenic Effects Associated with AOC 43A

Pathway	Case	Receptor		Risk Contributions by Exposure Route[2]	Hazard Index by Chemical[2]
		Adult	Adolescent[b]		
Exposure Scenarios Potentially Complete Under Current Site Conditions					
Current Worker, Soil	RME	0.97	-	Ingestion-70% Dermal contact-26%	
	Average	0.017	-		
Current Trespasser, Soil	RME	0.038	0.046	Ingestion-78% Dermal contact-22%	
	Average	0.006	0.008		
Exposure Scenarios Potentially Complete Under Possible Future Site Conditions					
Soil:					
Future Construction Worker, Soil[b]	RME	4.7	-	Ingestion-93% Dermal contact-5% Inhalation-2%	Arsenic-4.1
	Average	0.75	-		
Future Site Worker, Soil	RME	0.50	-	Ingestion-73% Dermal contact-27%	
	Average	0.086	-		
Groundwater:					
Future Site Worker, Unfiltered Groundwater	RME	21	-	Ingestion-100%	Manganese-16 Lead[c]-3
	Average	3.9	-		
Future Site Worker, Filtered Groundwater	RME	2.7	-	Ingestion-100%	Manganese-1.2
	Average	0.81	-		

a RME case for receptor showing the greatest risk.
b Hazard indices for adolescent trespassers and future construction workers were calculated using subchronic RfDs.

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Table 19
Chemicals of Potential Concern
AOC 32 - DRMO Yard

Chemical	Surface Water	Sediment	Asphalt	Subsurface Soil	Subsurface Soil	Groundwater
Metals						
Aluminum		E				X
Antimony	X	X		X	X	
Arsenic				X	X	X
Barium		X		X	X	X
Beryllium					X	X
Cadmium	X	X		X	X	
Calcium		X		X	X	X
Chromium		E		X	X	X
Cobalt		X		X	X	X
Copper	X	X		X	X	X
Iron		E		X	X	X
Lead	X	X		X	X	X
Magnesium		E		X	X	X
Manganese				X	X	X
Mercury		X		X	X	
Nickel		X		X	X	X
Potassium		E				X
Selenium				X	X	
Sodium						X
Vanadium		E		X		X
Zinc	X	X		X	X	X
Pesticides						
Aldrin				X		
y-Chlordane				X		
p,p'-DDD		X		X	X	X
p,p'-DDE			X	X	X	
p,p'-DDT		X	X	X	X	X
Dieldrin				X		
a-Endosulfan				X		
Heptachlor				X		
Heptachlor epoxide					X	
Lindane		X				
PCB's						
PCB-1016				X		
PCB-1248			X			
PCB-1254		X	X	X	X	
PCB-1260			X	X	X	X
Semivolatile Organics						
1,2,4-Trichlorobenzene						X
1,2-Dichlorobenzene						X
1,3-Dichlorobenzene						X
1,4-Dichlorobenzene						X
2-Methylnahthalene				X		X
Chrysene				X		
Dibenzofuran				X		
Flouranthene				X		
Flourene				X		

Table 19
Chemicals of Potential Concern
AOC 32 - DRMO Yard

Chemical	Surface Water	Sediment	Asphalt	Subsurface Soil	Subsurface Soil	Groundwater
Napthalene				X		
Phenanthrene				X		
Pyrene				X		
Volatile Organics						
1,1,1-Trichloroethane						X
1,2-Dichloroethane						X
1,2-Dichloroethene						X
Acetone					X	X
Benzene						X
Chloroform					X	X
Ethylbenzene						X
Toluene						X
Trichloroethene						X
Trichloroflouromethane					X	
Xylene						X
Other Organics						
Caprolactam						X
Lauric acid						X
Tetracosane						X
Total petroleum hydrocarbons		X		X	X	X
EPH/VPH				X	X	X

Note: Groundwater COPC selection is based on unfiltered groundwater data.

Key:

E = Elevated above sediment background levels but not soil background levels.
X = Selected as a COPC for the human health risk assessment.

Source: Ecology and Environment, Inc., 1994

Table 20
Chemicals of Potential Concern
AOC 43A - POL Storage Area

Chemical	Surface Soil	Subsurface Soil	Groundwater
Metals			
Aluminum			X
Antimony			X
Arsenic	X	X	
Barium			X
Beryllium			X
Calcium	X	X	X
Chromium			X
Cobalt	X	X	X
Copper	X		X
Iron			X
Lead	X	X	X
Magnesium			X
Manganese			X
Nickel	X	X	X
Potassium			X
Selenium			X
Sodium			X
Vanadium			X
Zinc	X	X	X
Explosives			
1,3,5-Trinitrobenzene			X
2-Amino-4,6-dinitrotolune			X
4-Amino-2,6-dinitrotoluene			X
1,3-Dinitrobenzene			X
2-Nitrotoluene			X
3-Nitrotoluene			X
4-Nitrotoluene			X
Cyclonite (RDX)			X
Pesticides/PCBs			
p,p'-DDD	X		
p,p'-DDE	X		
p,p'-DDT	X	X	
delta-Benzene hexachloride			X
Semivolatile Organics			
1,6-Dimethylindan		X	
2,4-Dimethylpentane		X	
Napthalene			X
1-Methylnapthalene			X
2-Methylnapthalane		X	X
4,6-Dimethylindan		X	
Pentadecane		X	
Hexadecane		X	
Benzo(a)anthracene			
Benzo(a)pyrne	X		
Heptadecane	X		
Acenapthalane	X		
Benzo(b)flourathene			X

Table 20
Chemicals of Potential Concern
AOC 43A - POL Storage Area

Chemical	Surface Soil	Subsurface Soil	Groundwater
BBDMMP[a]	X		
Benzo(k)flouranthene	X		
Benzo(ghi)perylene	X		
Chrysene	X		
Indeno(1,2,3-cd)pyrene	X		
Flouranthene	X		
Phenathrene		X	X
Pyrene	X		
Volatile Organics			
Acetone			X
Clrorophorm			X
Trichloroethene			X
Carbon disulfide		X	
1,2-Dichloroethane			X
Xylene		X	X
2,3,4-Trimethylpentane		X	
2,4-Dimethylpentane		X	
Decane		X	
Tetrachloroethane		X	
Other Organics			
Caprolactam			X
Total petroleum hydrocarbons	X	X	X
EPH.VPH	X	X	X

Note: Groundwater COPC selection is based on unfiltered groundwater data.
a. 4,4' Butylindenebis[2-(1,1-dimethylethyl)-5-phenol]

Source: Ecology and Environment, Inc., 1994

Table 21
Main Post Soil Cleanup Goal Determination

Analytes	ARARs		TBCs			Fort Devens Background Level (Maximum)	Human Health Risk Assessment Levels Concentrations Corresponding to 10^{-5} risk or HI=1	Candidate Cleanup Goal	Maximum Observed Concentration		Cleanup Goal	
	TSCA		Reg. III RBC Commercial/ Industrial Levels	RCRA Action Levels (Residential)	EPA Interim Cleanup level Superfund Sites							
	Surface Soil µg/g (a)	Subsurface Soil µg/g (a)	µg/g (b)	µg/g (c)	µg/g (d)	µg/g (e)	µg/g (f, g)	µg/g (h)	Surface Soil µg/g (i)	Subsurface Soil µg/g (j)	Surface Soil µg/g	Subsurface Soil µg/g
Arsenic			3.3	80		19	24 (f)	24	210	37	24	24
Lead					400	48	426 (g)	426	2260	980	426	426
DDD			24	3				3	0.018	6.6		3
DDE			17	2		0.26		2	0.4	2.7		2
DDT			17	2		0.12		2	2.9	5.6	2	2

Key:
(a) Toxic Substance Control Act (TSCA) (15USC 2601) - The surface cleanup criteria is 1,000 µg/kg and the subsurface soil cleanup criterion is 10,000 µg/kg.
(b) EPA Region III Risk-Based Concentration Table (USEPA 1995 January - June) values for commercial/industrial soil.
(c) Calculated RCRA CMS Action Level as outlined in 55FR30798: 27 July 1990, corresponding to a hazard index of 0.2 in compliance with MDEP for residential soil.
(d) EPA Interim Guidance on Soil Lead Cleanup Levels at Superfund Sites, EPA 1991, OSWER Directive 9355.4-02a, 29 August 1991.
(e) Background levels for soil derived from data compiled by E&E; (see Appendix K of the RI Report for Functional Area II (E&E 1994a) for background data rationale).
(f) Concentration corresponds to a cancer risk of 10^{-5}.
(g) Concentration corresponds to a hazard index of 1.
(h) Candidate cleanup was chosen as follows: Values calculated from site-specific risk assessment, or ARARs, if available. If neither of these two values were available, the lowest value of the remaining TBCs was selected. If background concentration was higher than the selected value, the background concentration was used as the candidate cleanup goal.
(i) Maximum observed concentration based on RI surface soil data collected from DRMO and POL Storage Area.
(j) Maximum observed concentration based on RI soil boring data collected from DRMO and POL Storage Area.
(k) Proposed standard.

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Table 22
Main Post Groundwater Cleanup Goal Determination

Analytes	ARARs				TBCs					Human Health Risk Assessment Levels Concentrations Corresponding to 10^{-5} risk or HI=1	Candidate Cleanup Goal	Maximum Observed Concentration	Cleanup Goal
	SDWA MCL	MMCL	SDWA MCLG	MA SMCL	SDWA SMCL	EPA Drinking Water HAs	EPA Region III Tap Water Risk-Based Concentrations	MA ORSG	Fort Devens Background				
µg/L (a)	µg/L (b)	µg/L (c)	µg/L (d)	µg/L (e)	µg/L (f)	µg/L (g)	µg/L (h)	µg/L (i)	µg/L (j)	µg/L (k)	µg/L (l)	µg/L (m)	µg/L (n)
Aluminum	50 (2)			50/200	50/200		37000		390		390	446	390
Arsenic	50 (3)	50				0.02	0.038		3.4	1.6 (j)	50	56	50
Iron	300 (2)			300	300				320		320	2800	320
Manganese	50 (2)			50	50		180		3500	500 (k)	3500	7700	3500
Sodium		28000 (4)				20000		28000	10000		28000	420000	28000
Thallium	2		0.5		0.4	0.4		2			0.5	1	0.5
Benzene	5	5	0			1	0.36				5	4	5
Total 1,2 Dichloroethene							55				55	60	55
Trichloroethylene (TCE)	5	5	0				1.6			26 (k)	5	200	5
alpha-Benzenehexachloride							0.011				0.011	20	0.011
DDT	0.5						0.28				0.5	7.5	0.5
PCB1260	0.5	0.5	0				0.0087			0.39 (j)	0.5	7.6	0.5
1, 3-Dinitrobenzene						1	3.7				1	12.0	1
1, 3, 5-Trichlorobenzene						1.8					1.8	3.04	1.8
Bis(2-ethylhexyl)phthalate	6	6 (4)	0				4.8	6			6	40	6

Table 22
Main Post Groundwater Cleanup Goal Determination

Analytes	ARARs				TBCs					Human Health Risk Assessment Levels Concentrations Corresponding to 10^{-5} risk or HI=1	Candidate Cleanup Goal	Maximum Observed Concentration	Cleanup Goal
	SDWA MCL	MMCL	SDWA MCLG	MA SMCL	SDWA SMCL	EPA Drinking Water HAs	EPA Region III Tap Water Risk-Based Concentrations	MA ORSG	Fort Devens Background				
1, 2-Dichlorobenzene	600		600			600	270				600	600	600
1, 3-Dichlorobenzene						600	540				600	1000	600
1, 4-Dichlorobenzene	75		75			75	0.44			12 (k)	75	600	75

Key:
(a) EPA Drinking Water Regulations (USEPA 1991c), MCLs. 40 CFR 143.
(b) Massachusetts Drinking Water Standards and Guidelines (Massachusetts 1992) 310 CMR 22.
(c) Maximum Contaminant Level Goal. Note: MCLGs of zero are not considered ARARs in accordance with the NCP.
(d) Secondary maximum Contaminant Goal, Code of Massachusetts Regulations, Title 310 Section 22, Effective 20 November 1992.
(e) National Secondary drinking Water Standards designed to protect the aesthetic quality of water (FR 42198, 19 July 1979; 51 FR 11396, 2 April 1986; 56 FR 3526, 30 January 1991)
(f) EPA Office of Water Lifetime Health Advisories (HA), May 1993.
(g) EPA Region III, Risk Based Concentration table (USEPA 1993 Fourth Quarter), values for tap water.
(h) ORSG: Office of research and Standard Guideline. Massachusetts Department of Environmental Protection, Spring 1993.
(i) Background levels based on maximum or average detected in upgradient wells or located background concentrations as follows: Arsenic and barium based on DRMO Yard local background. Calcium, Iron, Magnesium, Manganese, Potassium, Sodium, and Zinc based on POL upgradient well.
(j) Concentration based on cancer risk of 10^{-5}.
(k) Concentration based on a hazard index of 1.
(l) Remedial action objective was chosen as follows: lowest ARAs, if no ARARs, them human health risk assessment value. If risk is not calculated, then lowest-value of the TBCs. If TBC or ARAR was lower than background level, background was used.
(m) Maximum observed concentration based on RI and SI groundwater data collected from DRMO and POL. Maximum observed concentration for metals is based on filtered data only.
(n) Cleanup goal is below detection limit for this element. Cleanup should be to a level below detection limit.
(o) Action level.
(2) Secondary standard.
(3) Proposed standard.
(4) Massachusetts Guidance value.

Table 23
Natural Attenuation Assessment Sampling Parameters
AOCs 32 and 43A - Devens, Massacusetts

Parameter	Purpose
Dissolved Oxygen	Defines zone of potential aerobic activity (greater than 0.5 mg/l)
Redox	Define/confirm type of microbial respiration process occurring
Nitrate	Electron acceptor for anaerobic microbial respiration, microbial nutrient
Nitrite	Electron acceptor for anaerobic microbial respiration, microbial nutrient
Phosphate	Microbial nutrient (round 1 only)
Sulfate	Electron acceptor for araebic microbial respiration
Sulfide	Product of sulfate based microbial respiration
Manganese	Product or anaerobic biodegredation
Soluble iron FE II	Product of anaerobic biodegredation
Methane	Product of carbonate-based (CO2) microbial respiration (anaerobic degradation of carbon at redox less than -200mV)
Carbon dioxisde	Elevated concentrations can indicate an aerobic mechanism for bacterial degredation
EPH/VPH	Allows for comparison to risk based concentrations, provides BTEX, MTBE and PAH data
Arsenic	Comparison to PRGs
PCBs	Comparison to PRGs (UST #13 area only)
Trichloroethene	Comparison to PRGs
Dichlorobenzene	Comparison to PRGs
Lead	Comparison to PRGs
Ammonia-nitrogen	Baseline date (round 1 only)
TOC/COD	Baseline date (round 1 only)
Temperature	Well development/purge parameter
pH	Aquifer environment condition indicator
Conductivity	Well development/purge parameter; used as a marker to verify that site samples are from the same groundwater system
Alkalinity	Aquifer environment condition indicator

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Table 24
Synopsis of Federal and State ARARs for Monitored Natural Attenuation
Area of Contamination 32 and 43A
Devens, Massachusetts

Location Specific

Authority	Location Specific	Requirement	Status	Requirement Synopsis	Action To Be Taken To Attain Requirement
Federal Regulatory Authority		No location-specific ARARs will be triggered.			
State Regulatory Authority		No location-specific ARARs will be triggered.			

Table 24
Synopsis of Federal and State ARARs for Monitored Natural Attenuation
Area of Contamination 32 and 43A
Devens, Massachusetts

Chemical Specific

Authority	Chmical Specific	Requirement	Status	Requirement Synopsis	Action To Be Taken To Attain Requirement
Federal Regulatory Authority	Groundwater (Also applicable as an Action Specific ARAR)	SDWA, National Primary Drinking Water Standards, MCLs [40 CFR Parts 141.11 - 141.16 and 141.50 - 141.52]	Relevant and Appropriate	The NPDWR establishes MCLs for several common organic and inorganic contaminants. MCLs specify the maximum permissible concentrations of contaminants in public drinking water supplies. MCLs are federally enforceable standards based in part on the availability and cost of treatment techniques.	Biodegradation of organic contaminants exceeding MCLs is believed to be occurring under existing conditions. MCLs will be used to evaluate the performance of this alternative through implementation of a long-term groundwater monitoring program will achieve MCLs at completion of remedy.
Federal Regulatory Authority	Groundwater	USEPA Reference Dose	TBC		
Federal Regulatory Authority	Groundwater	USEPA HAs	TBC		
State Regulatory Authority	Groundwater(Also applicable as an Action Specific ARAR)	Massachusetts Drinking Water Standards and Guidelines [310 CMR 22.0].	Relevant and Appropriate	The Massachusetts Drinking Water Standards and Guidelines list MMCLs which apply to water delivered to any user of a public water supply system as defined in 310 CMR 22.00. Private residential wells are not subject to the requirements of 310 CMR 22.00; however, the standards are often used to evaluate private residential contamination especially in CERCLA activities.	Biodegradation of organic contaminants exceeding MMCLs is believed to be occurring under existing conditions. MMCLs will be used to evaluate the performance of this alternative through implementation of a long-term groundwater monitoring program.

Table 24
Synopsis of Federal and State ARARs for Monitored Natural Attenuation
Area of Contamination 32 and 43A
Devens, Massachusetts

Action Specific

Authority	Action Specific	Requirement	Status	Requirement Synopsis	Action To Be Taken To Attain Requirement
Federal Regulatory Authority		RCRA Subtitle C Subpart F	Relevant and Appropriate	Groundwater protection standard.	
State Regulatory Authority	Groundwater	Massachusetts Groundwater Quality Standards [314 CMR 6.00]	Applicable	Massachusetts Groundwater Quality Standards designate and assign uses for which groundwater of the Commonwealth shall be maintained and protected and set forth water quality criteria necessary to maintain the designated uses. Groundwater at Fort Devens is classified as Class 1. Groundwater assigned to this class are fresh groundwater designated as a source of potable water supply.	Biodegradation of organic contaminants exceeding MMCLs is believed to be occurring under existing conditions. MMCLs will be used to evaluate the performance of this alternative through implementation of a long-term groundwater monitoring program.
State Regulatory Authority	Groundwater Monitoring	Massachusetts Hazardous Waste Management Rules (MHWMR) Groundwater Protection; [310 CMR 30.660-30.679]	Relevant and Appropriate	Groundwater monitoring is required during and following remedial actions.	A long-term groundwater monitoring program is to be implemented to monitor the progress of remediation.

Notes:

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act
MCLs = Maximum Contaminant Levels
MHWMR = Massachusetts Hazardous Waste Management Rules
MMCLs = Massachusetts Maximum Contaminant Levels
NPDWR = National Primary Drinking Water Standards
SDWA = Safe Drinking Water Act

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Table 25
Synopsis of Federal and State ARARs for Excavation and Off-site Disposal
Area of Contamination 32 and 43A
Devens, Massachusetts

Location Specific

Authority	Location Specific	Requirement	Status	Requirement Synopsis	Action To Be Taken To Attain Requirement
Federal Regulatory Authority		There are no location specific ARARs for the DRMO Yard.			
State Regulatory Authority		There are no location specific ARARs for the DRMO Yard.			

Table 25
Synopsis of Federal and State ARARs for Excavation and Off-site Disposal
Area of Contamination 32 and 43A
Devens, Massachusetts

Chemical Specific

Authority	Chemical Specific	Requirement	Status	Requirement Synopsis	Action To Be Taken To Attain Requirement
Federal Regulatory Authority	For surface soil (0 to 10 inches) For subsurface soil (below 10 inches)	Toxic Substance Control Act (TSCA) 40 CFR 761.125(c)(4)	TBC	Unrestricted access with less than 1 mg/kg PCBs. Unrestricted access with less than 10 mg/kg PCBs.	
Federal Regulatory Authority	Soil	EPA Region III Risk Based Concentration Table	TBC	Exposure levels to numerous chemicals under specific scenarios.	
Federal Regulatory Authority	Soil	Resource Conservation and Recovery Act (RCRA) Corrective Action Levels 55 FR 30798, July 1990.	TBC	To establish the need for a corrective measure study. Numerous chemicals.	
Federal Regulatory Authority	Soil	Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. EPA OSWER Directive 9355.4-12, July 1994	TBC		
State Regulatory Authority	Soil	Background levels for soil.	TBC		
State Regulatory Authority	Soil	Massachusetts Contingency Plan (MCP) 310 CMR 40.09705(6)(a)	TBC	Total petroleum hydrocarbons not to exceed 500 mg/kg.	