

**Table 4-2**  
**General Chemistry Results in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		Chemistry EPA 160.1 Total Dissolved Solids mg/L	Chemistry EPA 160.2 Total Suspended Solids mg/L	Chemistry EPA 310.1 Alkalinity (as CaCO <sub>3</sub> ) mg/L	Chemistry EPA 310.1 Bicarbonate mg/L	Chemistry EPA 310.1 Total Alkalinity mg/L	Chemistry EPA 350.1 Ammonia (as N) ug/L	Chemistry EPA 425.1 MBAS mg/L	Chemistry EPA 9012A Cyanide ug/L	Chemistry SW 846 9040B pH (liquid) none
Sample ID	Sample Date									
IAR_12/01/2006	12/01/2006	7870	18 J	5.0 U	172 J+	172 J	507000	2.3	R	7.4 J
M100	12/04/2006	1670	12.0 J	5.0 U	126	126	3620	0.41	R	7.5 J
M100D	12/04/2006	1630	7.0 J	5.0 U	136	136	3770	0.34	R	7.6 J
M11	12/06/2006	3270	15.0 J	5.0 U	205	205	50.0 U	0.20	R	7.7 J
M11D	12/06/2006	3280	9.0 J	5.0 U	184	184	50.0 U	0.17 J	R	7.6 J
M120	11/28/2006	1700	9.0 J	5.0 U	146	146	50.0 U	0.20 U	R	7.5 J
M12A	12/05/2006	8170	57.0 J	5.0 U	381	381	50.0 U	0.41	R	7.8 J
M13	12/01/2006	3440	17.0 J	5.0 U	111 J+	111 J+	50.0 U	0.16 U	R	7.5 J
M29	11/17/2006	6180 J-	449 J-	5.0 U	268	268	79.9	0.20 U	5.0 UJ	
M2A	12/04/2006	12700	36.0 J	5.0 U	92.0	92.0	50.0 U	0.63	R	7.2 J
M31A	12/06/2006	9720	25.0 J	5.0 U	108	108	1270	1.8 J	R	7.1 J
M39	12/05/2006	7270	56.0 J	5.0 U	137	137	50.0 U	1.2 J	R	7.1 J
M48	12/06/2006	2690	3.0 J	5.0 U	134	134	942	1.5 J	R	7.4 J
M55	12/07/2006	9560	6.0 J	5.0 U	156	156	2630	3.3	R	7.1 J
M55D	12/07/2006	9630	9.0 J	5.0 U	168	168	2710	1.5 J	R	7.1 J
M5A	12/07/2006	11000	18.0 J	5.0 U	202	202	50.0 U	1.4 J	R	7.0 J
M76	12/04/2006	3970	20.0 J	5.0 U	125	125	50.0 U	0.21	R	7.2 J
M7B	11/30/2006	7650	37.0 J	5.0 U	98.0	98.0	50.0 U	4.0	R	7.2 J
M89	12/05/2006	13800	70.0 J	5.0 U	150	150		1.8 J	R	7.0 J
M92	11/29/2006	1850	22.0 J	5.0 U	80.0	80.0	50.0 U	0.20 U	R	7.4 J
M95	12/04/2006	7910	41.0 J	5.0 U	77.0	77.0	2450	2.2	R	7.6 J
M97	11/29/2006	3750	16.0 J	5.0 U	90.0	90.0	50.0 U	0.24	R	7.3 J
M98	11/30/2006	3900	21.0 J	5.0 U	90.0	90.0	50.0 U	0.22	R	7.1 J
MC45	12/06/2006	10500	6.0 J	5.0 U	286	286	50.0 U	1.8 J	R	7.1 J
PC40	12/01/2006	12200	79.0 J	5.0 U	212 J+	212 J+	50.0 U	3.2	R	7.0 J
GWSA2	11/06/2006	1660	29400	5.0 U	106	106	50.0 U	0.20 U	5.0 UJ	7.9 J
GWSA9	11/07/2006	12900	648	5.0 U	99.0	99.0	50.0 U	0.20 U	5.0 UJ	7.6 J
GWSA10	11/07/2006	2370	13700	5.0 U	63.0	63.0	50.0 U	0.20 U	5.0 UJ	7.7 J
GWSA14	11/08/2006	13500	4360	5.0 U	67.0	67.0	50.0 U	0.27 U	5.0 UJ	7.5 J
GWSA15	11/08/2006	14400	29800	5.0 U	198	198	893000	2.1 U	5.0 UJ	7.3 J

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Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		Chemistry SW 846 9050A Specific Conductance umhos/cm	Chemistry SW 846 9056 Bromide mg/L	Chemistry SW 846 9056 Chlorate mg/L	Chemistry SW 846 9056 Chloride mg/L	Chemistry SW 846 9056 Nitrate (as N) mg/L	Chemistry SW 846 9056 Nitrite mg/L	Chemistry SW 846 9056 ortho-Phosphate mg/L	Chemistry SW 846 9056 Sulfate mg/L	Chemistry SW 846 9060 Total Organic Carbon mg/L
Sample ID	Sample Date									
IAR 12/01/2006	12/01/2006	4470	25.0 U	46.8	518	283	138	5.0 U	1250	50.0 U
M100	12/04/2006	1360 J+	0.22 J	85.0	165	12.8	1.9	5.0 U	3520	50.0 U
M100D	12/04/2006	1410 J+	0.23 J	108	168	12.9	2.2	5.0 U	3530	50.0 U
M11	12/06/2006	2360 J+	25.0 U	421	239	3.4	3.1	5.0 U	1290	50 U
M11D	12/06/2006	2330 J+	25.0 U	444	246	3.5	2.0 U	5.0 U	1380	50 U
M120	11/28/2006	1800	0.29	5.0 U	158	1.2	2.0 U	0.57	824	50.0 UJ
M12A	12/05/2006	3660 J+	25.0 U	2370	1030	15.2	10.0 U	500 U	1510	50.0 U
M13	12/01/2006	2320	0.60	279	394	1.8	R	5.0 U	1520	50.0 U
M29	11/17/2006	6420 J	14.1 J-	15.0	229 J-	9.5	2.0 U	5.0 U	5330	2.2
M2A	12/04/2006	2450 J+	0.54	4600	1800	13.6	22.5	500 U	1250	50.0 U
M31A	12/06/2006	2630 J+	25.0 U	3320	1130	17.6	10.0 U	500 U	1480	50.0 U
M39	12/05/2006	2360 J+	2.7	1620	1280	12.1	10.0 U	5.0 U	2720	50.0 U
M48	12/06/2006	2220 J+	25.0 U	484	314	15.2	4.6	5.0 U	861	50.0 U
M55	12/07/2006	3000 J+	2.5 U	3340	2030	28.8	0.20 U	500 U	1210	50.0 U
M55D	12/07/2006	3160 J+	25.0 U	3320	1940	28.8	0.20 U	500 U	1230	50.0 U
M5A	12/07/2006	3350 J+	25.0 U	5.0 U	5320	2.0 U	2.0 U	50.0 U	1600	50.0 U
M76	12/04/2006	2320 J+	0.96	820	829	8.8	14.5	15.0	770	50.0 U
M7B	11/30/2006	4310	84.1 J	8.0	4160	10.0 U	10.0 U	5.0 U	1690	50.0 U
M89	12/05/2006	3070	25.0 U	6460	2300	32.1	10.0 U	5.0 U	1080	50.0 U
M92	11/29/2006	1930	0.21 J	3.2 J	192	4.0	0.020 U	5.0 U	992	50.0 U
M95	12/04/2006	2430 J+	2.5 U	962	1270	59.5	16.8	5.0 U	3020	50.0 U
M97	11/29/2006	2410	25.0 U	277	1190	8.4	2.0 U	5.0 U	1150	50.0 U
M98	11/30/2006	2420	125 U	25.0	1120	2.6	10.0 U	5.0 U	1100	50.0 U
MC45	12/06/2006	4020 J+	25.0 U	5.0 U	4460	2.0 U	80.6	5.0 U	1870	50.0 U
PC40	12/01/2006	6670	250 U	48.0	4790	2.4	R	5.0 U	2440	50.0 U
GWSA2	11/06/2006	2260	0.65	4.0 J	170	5.4	0.020 U	0.5 U	913	4.1 J-
GWSA9	11/07/2006	15900	2.5 U	5.0 U	6390 J	3.3	0.020 U	5.0 U	2520	6.5 J-
GWSA10	11/07/2006	2880	0.60	26.9	375	6.4	0.020 U	3.7 J	1090	1.2 J-
GWSA14	11/08/2006	15200	25.0 U	5.0 U	5180	1.1 J	2.0 U	50.0 U	1950	5.9 J-
GWSA15	11/08/2006	21500	25.0 U	172	3750	132	2.0 U	50.0 U	2200	3.8 J-

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Notes:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity and the result may be biased high.
- J- The result is an estimated quantity and the result may be biased low.
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- R The result is rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
- mg/L Milligrams per liter.
- ug/L Micrograms per liter.
- umhos/cm MicroSiemens per centimeter.
- Blank Not analyzed.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Pump rate ml/min	Turbidity (field) NTUs	Acceptance Criteria Met?	Parameters That Did Not Meet Acceptance Criteria	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
		Analytic Method Chemical Name Fraction Units					SW 846 6020 Aluminum S ug/L	SW 846 6020 Aluminum T ug/L	SW 846 6020 Antimony S ug/L	SW 846 6020 Antimony T ug/L	SW 846 6020 Arsenic S ug/L	SW 846 6020 Arsenic T ug/L	SW 846 6020 Barium S ug/L	SW 846 6020 Barium T ug/L	SW 846 6020 Beryllium S ug/L
IAR_12/01/2006	12/01/2006	nm	nm	Yes				157 U		10.0 U		124		58.6	
IAR-F	05/08/2007	nm	nm				7.9 U		1.1		76.7	37.1		1.8 U	
IAR-Z	05/08/2007	nm	nm					7.9 U		1.1		110		36.3	
M100	12/04/2006	360	1.00	Yes				78.6 U		5 U		85.3		24.0	
M100D	12/04/2006	360	1.00	Yes				78.6 U		5 U		88.9		23.6	
M100-F	05/09/2007	350	1.91	Yes			78.6 U		5.0 U		83.6	23.8		0.88 U	
M100-L	05/09/2007	100	1.58	Yes				108 U		5.0 U		92.9		25.5 U	
M100-Z	05/09/2007	350	1.91	Yes				78.6 U		5.0 U		79.6		23.6 U	
M11	12/06/2006	150	89.5	Yes				62.7 UJ		0.5 U		309		14.4	
M11D	12/06/2006	150	89.5	Yes				57.9 UJ		0.5 U		304		14.1	
M11-F	05/11/2007	150	38.1	Yes			393 U		25.0 U		250	12.4 U		4.4 U	
M11-Z	05/11/2007	150	38.1	Yes				393 U		25.0 U		328		15.2 U	
M120	11/28/2006	320	1.8	Yes				32.3		0.50 U		180		27.0	
M120-F	05/04/2007	320	0.35	Yes			7.9 U		0.50 U		163	33.0		0.088 U	
M120-L	05/04/2007	150	0.00	No	ORP			135		0.50 U		167		35.1	
M120-Z	05/04/2007	320	0.35	Yes				32.6		0.50 U		168		33.9	
M12A	12/05/2006	210	19.7	Yes				1210 J+		5 U		686		34.0	
M12A-F	05/11/2007	210	7.6	No	ORP		786 U		50.0 U		692	24.7 U		8.8 U	
M12A-L	05/11/2007	100	12.1	Yes				786 U		50.0 U		658		24.7 U	
M12A-Z	05/11/2007	210	7.6	No	ORP			786 U		50.0 U		700		24.7 U	
M13	12/01/2006	300	32.4	Yes				157 U		10.0 U		44.1 J		14.6 J	
M13-F	05/09/2007	300	28.5	Yes			197 U		12.5 U		50.0 U	9.8 J		2.2 U	
M13-L	05/09/2007	100	36.8	No	DO			197 U		12.5 U		50.0 U		14.5 U	
M13-Z	05/09/2007	300	28.5	Yes				197 U		12.5 U		51.6 J		10.7 U	
M29	11/17/2006						7.9 U	5210	0.94 J	0.92 J	100	109	17.2	51.7	0.088 UJ
M2A	12/04/2006	350	49.0	Yes				197 U		12.5 U		56.5 J		46.4 J	
M2A-F	05/09/2007	350	3.51	No	ORP		393 U		25.0 U		100 U	46.8 J		4.4 U	
M2A-L	05/09/2007	100	56.0	Yes				2430		25.0 U		102 J		70.8 J	
M2A-Z	05/09/2007	350	3.51	No	ORP			393 U		25.0 U		100 U		46.5 J	
M31A	12/06/2006	145	155.0	Yes				2020 J+		5 U		99.1		96.7	
M31A-F	05/09/2007	150	14.7	Yes			393 U		25.0 U		100 U	34.6 J		4.4 U	
M31A-Z	05/09/2007	150	14.7	Yes				760 J		25.0 U		127 J		42.5 J	
M39-Z	05/10/2007	325	3.16	No	ORP			393 U		25.0 U		103 J		17.0 J	
M39-F	05/10/2007	325	3.16	No	ORP		393 U		25.0 U		128 J	17.1 J		4.4 U	
M39-L	05/10/2007	100	40.8	No	ORP			393 U		25.0 U		103 J		18.0 J	
M39-ZD	05/10/2007	325	3.16	No	ORP			393 U		25.0 U		100 U		17.6 J	
M39-LD	05/10/2007	100	40.8	No	ORP			393 U		25.0 U		122 J		17.6 J	
M39-FD	05/10/2007	325	3.16	No	ORP			393 U		25.0 U		133 J		17.2 J	
M39	12/05/2006	320	62.9	Yes				1100 J+		5 U		126		29.3	
M48	12/06/2006	350	nm	Yes				34.4 UJ		0.5 U		130		16.2	
M48-F	05/10/2007	350	0.63	Yes			157 U		10.0 U		147	17.9 J		1.8 U	
M48-L	05/10/2007	100	0.00	Yes				157 U		10.0 U		147		17.2 J	
M48-Z	05/10/2007	350	0.63	Yes				157 U		10.0 U		147		16.9 J	
M55	12/07/2006	360	1.5	Yes				78.6 U		5 U		97.5		45.3	
M55D	12/07/2006	360	1.5	Yes				92.8 U		5 U		93.7		43.2	
M55-F	05/08/2007	350	0.00	No	ORP		393 U		25.0 U		123 J	43.7 J		4.4 U	
M55-L	05/08/2007	100	1.00	No	ORP			393 U		25.0 U		119 J		47.6 J	

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Fraction Units		Pump rate ml/min	Turbidity (field) NTUs	Acceptance Criteria Met?	Parameters That Did Not Meet Acceptance Criteria	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
Sample ID	Sample Date					SW 846 6020 Aluminum S ug/L	SW 846 6020 Aluminum T ug/L	SW 846 6020 Antimony S ug/L	SW 846 6020 Antimony T ug/L	SW 846 6020 Arsenic S ug/L	SW 846 6020 Arsenic T ug/L	SW 846 6020 Barium S ug/L	SW 846 6020 Barium T ug/L	SW 846 6020 Beryllium S ug/L
M55-Z	05/08/2007	350	0.00	No	ORP		393 U		25.0 U			128 J		46.5 J
M5A	12/07/2006	200	7.0	Yes			816 J+		1.4			237		51.9
M5A-F	05/10/2007	200	2.31	Yes		786 U		50.0 U		228 J		42.6 J		8.8 U
M5A-L	05/10/2007	100	4.11	No	DO		786 U		50.0 U			271 J		44.3 J
M5A-Z	05/10/2007	200	2.31	Yes			786 U		50.0 U			261 J		44.3 J
M76	12/04/2006	100	0.1	Yes			206 J+		10 U			121		24.8 J
M76-F	05/09/2007	200	1.84	No	ORP	393 U		25.0 U		151 J		21.4 J		4.4 U
M76-L	05/09/2007	100	7.06	No	ORP		393 U		25.0 U			101 J		25.8 U
M76-Z	05/09/2007	200	1.84	No	ORP		393 U		25.0 U			100 U		23.5 U
M7B	11/30/2006	290	16.1	No	DO		234 J		50.0 U			79.9 J		38.3 J
M7B-F	05/08/2007	300	6.1	Yes		393 U		25.0 U		100 U		35.4 J		4.4 U
M7B-L	05/08/2007	100	7.0	Yes			4940		25.0 U			118 J		75.6 J
M7B-Z	05/08/2007	300	6.1	Yes			393 U		25.0 U			100 U		36.0 J
M89	12/05/2006	235	0.3	Yes			84.9 UJ		5 U			84.9		45.9
M89-F	05/11/2007	225	0.00	No	ORP	786 U		50.0 U		200 U		41.8 J		8.8 U
M89-L	05/11/2007	100	2.90	No	ORP		786 U		50.0 U			200 U		40.5 J
M89-Z	05/11/2007	225	0.00	No	ORP		786 U		50.0 U			200 U		42.3 J
M92	11/29/2006	280	76.0	Yes			1590		0.50 U			91.4		38.3
M92-F	05/08/2007	300	3.69	No	ORP	7.9 U		0.50 U		83.2		15.8		1.8 U
M92-L	05/08/2007	100	33.7	Yes			372 U		0.50 U			84.6		21.0 U
M92-Z	05/08/2007	300	3.69	No	ORP		32.6 U		0.50 U			95.7		18.2 U
M95	12/04/2006	480	68.8	Yes			1430 J+		12.5 U			210		36.5 J
M95-F	05/10/2007	360	2.29	No	ORP	393 U		25.0 U		223 J		12.4 U		4.4 U
M95-FD	05/10/2007	360	2.29	No	ORP		393 U		25.0 U			213 J		12.4 U
M95-L	05/10/2007	100	23.2	No	ORP		393 U		25.0 U			169 J		12.4 U
M95-LD	05/10/2007	100	23.2	No	ORP		393 U		25.0 U			231 J		12.7 J
M95-Z	05/10/2007	360	2.29	No	ORP		393 U		25.0 U			227 J		12.4 U
M95-ZD	05/10/2007	360	2.29	No	ORP		393 U		25.0 U			206 J		13.4 J
M97	11/29/2006	380	31.7	Yes			510		10.0 U			188		38.7 J
M97-F	05/11/2007	375	2.89	No	ORP	197 U		12.5 U		179		34.7 J		2.2 U
M97-L	05/11/2007	100	6.51	No	ORP		197 U		12.5 U			196		34.5 J
M97-Z	05/11/2007	375	2.89	No	ORP		197 U		12.5 U			181		33.8 J
M98	11/30/2006	300	nm	Yes			157 U		10.0 U			184		16.3 J
MC45	12/06/2006	290	0.5	Yes			224 J+		1.1			175		39.5
MC45-F	05/07/2007	280	0.00	No	ORP	7.9 U		1.3		151		35.2		1.8 U
MC45-L	05/07/2007	100	0.85	No	ORP		7.9 U		1.2			149		34.2
MC45-Z	05/07/2007	280	0.00	No	ORP		7.9 U		1.1			154		36.5
PC40	12/01/2006	420	149	Yes			2790		50.0 U			215		59.1
PC40-F	05/07/2007	400	0.00	No	DO, ORP	23.7 J		0.97 J		196		28.6		0.088 U
PC40-L	05/07/2007	100	200	Yes			4390		1.2			208		75.1
PC40-Z	05/07/2007	400	0.00	No	DO, ORP		188 U		0.91 J			203		31.9
GWSA2	11/06/2006	na	nm			13.6 J	236000 J	0.52 J-	R	223	610	28.9	2750	0.088 UJ
GWSA9	11/07/2006	na	nm			157 UJ	11500 J	0.93 J-	1.3 J-	51.7	70.0	42.1	176	1.8 UJ
GWSA10	11/07/2006	na	nm			157 UJ	349000 J	0.62 J-	R	68.3	480	28.5	4100	1.8 UJ
GWSA14	11/08/2006	na	nm			157 UJ	939000 J	1.9 J-	2.6 J-	40.6	778	83.9	3350	1.8 UJ
GWSA15	11/08/2006	na	nm			157 UJ	175000 J	0.76 J-	R	53.6	269	39.8	3060	1.8 UJ

Table 4-5  
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Phase A Source Area Investigation Results  
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Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals									
		Analytic Method	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020								
Chemical Name	Fraction	Units	Beryllium	Boron	Boron	Cadmium	Cadmium	Calcium	Calcium	Chromium	Chromium	Cobalt	Cobalt	Copper	Copper								
			T	S	T	S	T	S	T	S	T	S	T	S	T								
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L								
IAR 12/01/2006	12/01/2006		1.8 U		2660		1.2 U		508000		81.5 J		6.3 U		8.8 J								
IAR-F	05/08/2007			3010 J+		0.11 J		515000		194		0.98 J-		3.0									
IAR-Z	05/08/2007		1.8 U		2980		0.10 J		540000		291 J-		0.94 J-		2.7 U								
M100	12/04/2006		0.88 U		1910 J		0.57 U		123000		290		3.1 U		4.2 J								
M100D	12/04/2006		0.88 U		1880 J-		0.57 U		120000		292		3.1 U		2.8 J								
M100-F	05/09/2007			2570		0.57 U		139000		246		3.1 U		3.0 J									
M100-L	05/09/2007		0.88 U		2520		0.64 J		135000		227		3.1 U		4.5 J								
M100-Z	05/09/2007		0.88 U		2580		0.57 U		133000		237		3.1 U		3.0 U								
M11	12/06/2006		1.8 U		15800 J-		0.057 U		37000		2360		0.44 J		4.3								
M11D	12/06/2006		1.8 U		15800 J-		0.057 U		36700		2370		0.46 J		4.4								
M11-F	05/11/2007			10200		2.9 U		45600		2200		15.7 U		12.5 U									
M11-Z	05/11/2007		4.4 U		10400		2.9 U		50200		3130		15.7 U		12.5 U								
M120	11/28/2006		0.088 U		947		0.067 J		165000		2.8 U		0.37 J		2.4								
M120-F	05/04/2007			1520 J+		0.072 J		208000		2.8 U		0.42 J-		2.7									
M120-L	05/04/2007		0.088 U		1470		0.057 U		222000		R		0.47 J-		2.8								
M120-Z	05/04/2007		0.088 U		1460		0.057 U		219000		R		0.46 J-		2.7								
M12A	12/05/2006		8.8 U		3280 J-		0.57 U		51300		10600		5.9 J		11.8								
M12A-F	05/11/2007			3250 U		5.7 U		47900		12100		31.3 U		25.0 U									
M12A-L	05/11/2007		8.8 U		3450 U		5.7 U		48100		12200		31.3 U		25.0 U								
M12A-Z	05/11/2007		8.8 U		3340 U		5.7 U		50100		12800		31.3 U		25.0 U								
M13	12/01/2006		1.8 U		2590		1.2 U		232000		448		6.3 U		7.1 J								
M13-F	05/09/2007			2670		1.4 U		202000		70.0 U		7.8 U		6.3 U									
M13-L	05/09/2007		2.2 U		2750		1.4 U		244000		257		7.8 U		6.3 U								
M13-Z	05/09/2007		2.2 U		2680		1.4 U		204000		292		7.8 U		6.3 U								
M29	11/17/2006		0.22 J-		2670		0.078 J		395000		339000		24.7 J-		31.2 J-		5.1 J-		3.0 J-		11.1 J-		13.7 J-
M2A	12/04/2006		2.2 U		3030		1.4 U		753000		19600		7.8 U		6.3 U								
M2A-F	05/09/2007			3420		2.9 U		752000		18700		15.7 U		12.5 U									
M2A-L	05/09/2007		4.4 U		3420		2.9 U		778000		19500		15.7 U		12.5 U								
M2A-Z	05/09/2007		4.4 U		3210		2.9 U		713000		18100		15.7 U		12.5 U								
M31A	12/06/2006		8.8 U		7160 J-		1.2 J		582000		11400		12.8 J		16.7								
M31A-F	05/09/2007			6790		2.9 U		601000		12000		15.7 U		12.5 U									
M31A-Z	05/09/2007		4.4 U		6950		2.9 U		617000		12300		15.7 U		12.5 U								
M39-Z	05/10/2007		4.4 U		10800		2.9 U		620000		4580		15.7 U		12.5 U								
M39-F	05/10/2007			10400		2.9 U		629000		4670		15.7 U		12.5 U									
M39-L	05/10/2007		4.4 U		10500		2.9 U		623000		4700		15.7 U		12.5 U								
M39-ZD	05/10/2007		4.4 U		10900		2.9 U		633000		4700		15.7 U		12.5 U								
M39-LD	05/10/2007		4.4 U		10600		2.9 U		616000		4650		15.7 U		12.5 U								
M39-FD	05/10/2007		4.4 U		10500		2.9 U		623000		4660		15.7 U		12.5 U								
M39	12/05/2006		8.8 U		10700 J-		0.57 U		586000		4120		3.1 U		9.3 J								
M48	12/06/2006		1.8 U		4650 J-		0.057 U		133000		730		0.70 J		2.9								
M48-F	05/10/2007			3930		1.2 U		179000		971		6.3 U		5.0 U									
M48-L	05/10/2007		1.8 U		4010		1.2 U		175000		945		6.3 U		5.0 U								
M48-Z	05/10/2007		1.8 U		4030		1.2 U		177000		963		6.3 U		5.0 U								
M55	12/07/2006		8.8 U		10500 J-		0.57 U		48600		11100		3.1 U		6 U								
M55D	12/07/2006		8.8 U		10600 J-		0.57 U		479000		10800		3.1 U		6 U								
M55-F	05/08/2007			9790 J+		2.9 U		560000		12300		15.7 UJ		12.5 U									
M55-L	05/08/2007		4.4 U		9700		2.9 U		580000		12600 J-		15.7 UJ		12.5 U								

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
		SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
Chemical Name	Fraction Units	Beryllium T ug/L	Boron S ug/L	Boron T ug/L	Cadmium S ug/L	Cadmium T ug/L	Calcium S ug/L	Calcium T ug/L	Chromium S ug/L	Chromium T ug/L	Cobalt S ug/L	Cobalt T ug/L	Copper S ug/L	Copper T ug/L
M55-Z	05/08/2007	4.4 U		9980		2.9 U		578000		12600 J-		15.7 UJ		12.5 U
M5A	12/07/2006	4.4 U		2040 J-		0.066 J		811000		2.8 U		1.8 J		7.3
M5A-F	05/10/2007		2070 J		5.7 U		755000		280 U		31.3 U		25.0 U	
M5A-L	05/10/2007	8.8 U		2260 J		5.7 U		762000		280 U		31.3 U		25.0 U
M5A-Z	05/10/2007	8.8 U		2220 J		5.7 U		782000		280 U		31.3 U		25.0 U
M76	12/04/2006	1.8 U		3910 J-		1.2 U		121000		2850		6.3 U		5 U
M76-F	05/09/2007		3650		2.9 U		123000		2510		15.7 U		12.5 U	
M76-L	05/09/2007	4.4 U		3830		2.9 U		125000		2550		15.7 U		12.5 U
M76-Z	05/09/2007	4.4 U		3570		2.9 U		120000		2380		15.7 U		12.5 U
M7B	11/30/2006	1.8 U		4170		1.2 U		613000		56 U		6.3 U		6.5 J
M7B-F	05/08/2007		4260 J+		2.9 U		620000		140 U		15.7 UJ		12.5 U	
M7B-L	05/08/2007	4.4 U		4870		3.2		639000		R		15.7 U		16.8 J
M7B-Z	05/08/2007	4.4 U		4120		2.9 U		591000		R		15.7 UJ		12.5 U
M89	12/05/2006	8.8 U		4140 J-		0.57 U		754000		22300		3.1 U		6.8 J
M89-F	05/11/2007		4240 J		5.7 U		737000		21400		31.3 U		25.0 U	
M89-L	05/11/2007	8.8 U		4410 J		5.7 U		724000		21000		31.3 U		25.0 U
M89-Z	05/11/2007	8.8 U		4280 J		5.7 U		764000		22500		31.3 U		25.0 U
M92	11/29/2006	0.088 U		1360		0.089 J		138000		16.3		0.84 J		4.5
M92-F	05/08/2007		1550 J+		0.057 U		149000		12.0		0.31 UJ		2.1	
M92-L	05/08/2007	1.8 U		1380		0.057 U		147000		16.4		0.38 J-		3.1 U
M92-Z	05/08/2007	1.8 U		1820		0.057 U		155000		15.1 J-		0.32 J-		2.4 U
M95	12/04/2006	2.2 U		10300 J-		1.4 U		643000		1830		7.8 U		10.2 J
M95-F	05/10/2007		9470		2.9 U		595000		1570		15.7 U		12.5 U	
M95-FD	05/10/2007	4.4 U		9890		2.9 U		626000		1660		15.7 U		12.5 U
M95-L	05/10/2007	4.4 U		9590		2.9 U		575000		1520		15.7 U		12.5 U
M95-LD	05/10/2007	4.4 U		9480		2.9 U		598000		1540		15.7 U		12.5 U
M95-Z	05/10/2007	4.4 U		9350		2.9 U		582000		1550		15.7 U		12.5 U
M95-ZD	05/10/2007	4.4 U		9670		2.9 U		616000		1640		15.7 U		12.5 U
M97	11/29/2006	1.8 U		4810		1.2 U		309000		77.2 J		6.3 U		7.0
M97-F	05/11/2007		4720		1.4 U		284000		70.0 U		7.8 U		6.3 U	
M97-L	05/11/2007	2.2 U		4640		1.4 U		289000		70.0 U		7.8 U		6.3 U
M97-Z	05/11/2007	2.2 U		4710		1.4 U		277000		70.0 U		7.8 U		6.3 U
M98	11/30/2006	1.8 U		3200		1.2 U		273000		100 J		6.3 U		5.2
MC45	12/06/2006	1.8 U		1200 J-		0.14 J		213000		2.8 U		3.7		7.7
MC45-F	05/07/2007		1250 J+		0.12 J		340000		2.8 U		4.2 J-		4.0	
MC45-L	05/07/2007	1.8 U		1370		0.13 U		375000		R		4.3 J-		4.0 U
MC45-Z	05/07/2007	1.8 U		1220		0.12 U		342000		R		4.4 J-		3.8 U
PC40	12/01/2006	2.2 U		2140		1.4 U		492000		70 U		7.8 U		11.6 J
PC40-F	05/07/2007		1760 J+		0.16 J		462000		2.8 U		1.9 J-		4.4	
PC40-L	05/07/2007	0.16 J		2270		0.18 U		442000		8.2 J-		6.1 J-		7.5
PC40-Z	05/07/2007	0.088 U		1830		0.16 U		487000		R		2.3 J-		4.6 U
GWSA2	11/06/2006	11.4 J-	2740 J-	2700 J-	0.23 J	1.8 J	87600 J	588000 J	18.8 J-	375 J-	4.0 J-	91.5 J-	3.6 J-	168 J-
GWSA9	11/07/2006	0.53 J-	1650 J-	1250 J-	0.057 U	0.18 J	452000 J	308000 J	56.0 UJ	15.5 J-	6.3 UJ	3.1 J-	6.8 J-	12.7 J-
GWSA10	11/07/2006	19.4 J-	1310 J-	1340 J-	0.057 U	3.3	237000 J	1210000 J	56.0 UJ	579 J-	6.3 UJ	114 J-	4.9 J-	257 J-
GWSA14	11/08/2006	67.2 J-	1670 J-	1940 J-	0.057 U	10.4	1050000 J	4800000 J	56.0 UJ	1350 J-	6.4 J-	352 J-	7.1 J-	333 J-
GWSA15	11/08/2006	9.5 J-	2560 J-	2690 J-	0.17 J	1.1 J	308000 J	457000 J	56.0 UJ	274 J-	6.3 UJ	62.0 J-	6.3 J-	115 J-

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
		Analytic Method	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
Chemical Name	Fraction	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Molybdenum	Molybdenum	Nickel	Nickel	Platinum
Units	Units	S	T	S	T	S	T	S	T	S	T	S	T	S
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
IAR_12/01/2006	12/01/2006		188 UJ		9.8 U		168000		127		32.6 J		16.3 J	
IAR-F	05/08/2007	R		0.49 U		229000		32.2 J+		27.9		11.8 J-		1.0
IAR-Z	05/08/2007		188 UJ		0.49 U		248000		29.8 U		26.8		10.3 UJ	
M100	12/04/2006		R		4.9 U		50800		24.4 UJ		10.0 J		5.2 U	
M100D	12/04/2006		R		4.9 U		50300		24.1 UJ		9.5 J		5.2 U	
M100-F	05/09/2007	R		4.9 U		58700		25.3		10.3 J		5.2 U		1.0 U
M100-L	05/09/2007		94.0 UJ		4.9 U		57300		27.9 U		11.3 J		5.2 U	
M100-Z	05/09/2007		94.0 UJ		4.9 U		56900		24.4 U		10.0 J		5.2 U	
M11	12/06/2006		4680 J-		0.49 U		37100		93.5 UJ		25.6		1.9 J	
M11D	12/06/2006		4830 J-		0.49 U		37500		96.0 UJ		25.3		1.9 J	
M11-F	05/11/2007	R		24.6 U		36300		17.1 U		27.0 J		25.8 U		5.0 U
M11-Z	05/11/2007		6310 J-		24.6 U		39300		173 U		25.0 U		25.8 U	
M120	11/28/2006		9.4 UJ		0.49 U		77000		3.0 J		13.8		5.5	
M120-F	05/04/2007	R		0.49 U		127000		1.1 UJ		14.0		4.8 J-		0.10 U
M120-L	05/04/2007		188 UJ		0.49 U		128000		2.4 U		13.5		4.8 J-	
M120-Z	05/04/2007		188 UJ		0.49 U		126000		0.83 U		13.8		5.2 J-	
M12A	12/05/2006		3740		4.9 U		18000		592 J-		59.5		8.0 J	
M12A-F	05/11/2007	R		49.2 U		17900		34.2 U		50.9 J		51.7 U		10.0 U
M12A-L	05/11/2007		1010 J-		49.2 U		18500		245		50.0 U		51.7 U	
M12A-Z	05/11/2007		940 UJ		49.2 U		19000		140 U		51.1 J		51.7 U	
M13	12/01/2006		4920 J-		9.8 U		107000		496		33.1 J		10.6 J	
M13-F	05/09/2007	R		12.3 U		98400		1020		33.4 J		12.9 U		2.5 U
M13-L	05/09/2007		15300 J-		12.3 U		96800		5490		29.2 J		12.9 U	
M13-Z	05/09/2007		4370 J-		12.3 U		94700		1580		32.5 J		12.9 U	
M29	11/17/2006		94 U		0.49 U		619000		108 J-		23.9		23.2	
M2A	12/04/2006		R		12.3 U		389000		8.5 U		14.0 J		22.5 J	
M2A-F	05/09/2007	R		24.6 U		402000		17.1 U		25.0 U		25.8 U		5.0 U
M2A-L	05/09/2007		470 UJ		24.6 U		413000		33.5 U		25.0 U		25.8 U	
M2A-Z	05/09/2007		470 UJ		24.6 U		386000		17.1 U		25.0 U		25.8 U	
M31A	12/06/2006		1430 J-		4.9 U		254000		8060 J-		11.1 J		24.5 J	
M31A-F	05/09/2007	R		24.6 U		270000		98.9 J		25.0 U		25.8 U		5.0 U
M31A-Z	05/09/2007		470 UJ		24.6 U		275000		127 U		25.0 U		25.8 U	
M39-Z	05/10/2007		R		24.6 U		408000		17.1 U		25.0 U		25.8 U	
M39-F	05/10/2007	R		24.6 U		403000 J-		17.1 U		25.0 U		25.8 U		5.0 U
M39-L	05/10/2007		R		24.6 U		401000		17.1 U		25.0 U		25.8 U	
M39-ZD	05/10/2007		R		24.6 U		414000		17.1 U		25.0 U		25.8 U	
M39-LD	05/10/2007		R		24.6 U		399000		17.9 U		25.0 U		25.8 U	
M39-FD	05/10/2007		R		24.6 U		408000 J-		17.1 U		25.0 U		25.8 U	
M39	12/05/2006		380 J-		4.9 U		357000		208 UJ		20.6 J		16.5 J	
M48	12/06/2006		R		0.49 U		62100		20.9 UJ		18.3		4.4 J	
M48-F	05/10/2007	R		9.8 U		89300 J-		25.7 J		18.5 J		10.3 U		2.0 U
M48-L	05/10/2007		R		9.8 U		86600		23.6 U		20.2 J		10.3 U	
M48-Z	05/10/2007		R		9.8 U		87700		23.9 U		19.0 J		10.3 U	
M55	12/07/2006		R		4.9 U		273000		37.4 UJ		13.1 J		14.5 J	
M55D	12/07/2006		R		4.9 U		271000		54.6 UJ		13 J		14.6 J	
M55-F	05/08/2007	R		24.6 U		327000		35.3 J+		25.0 U		25.8 UJ		5.0 U
M55-L	05/08/2007		470 UJ		24.6 U		335000		48.6 U		25.0 U		25.8 UJ	



**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type Analytical Method Chemical Name Fraction Units	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
			SW 846 6020 Iron S ug/L	SW 846 6020 Iron T ug/L	SW 846 6020 Lead S ug/L	SW 846 6020 Lead T ug/L	SW 846 6020 Magnesium S ug/L	SW 846 6020 Magnesium T ug/L	SW 846 6020 Manganese S ug/L	SW 846 6020 Manganese T ug/L	SW 846 6020 Molybdenum S ug/L	SW 846 6020 Molybdenum T ug/L	SW 846 6020 Nickel S ug/L	SW 846 6020 Nickel T ug/L	SW 846 6020 Platinum S ug/L
M55-Z	05/08/2007			470 UJ		24.6 U		340000		34.9 U		25.0 U		25.8 UJ	
M5A	12/07/2006			459 J-		1.3 J		944000		1130 J-		9.6		15.4	
M5A-F	05/10/2007	R			49.2 U		861000 J-	1480			50.0 U		51.7 U		10.0 U
M5A-L	05/10/2007		R			49.2 U		863000		1470		50.0 U		51.7 U	
M5A-Z	05/10/2007		R			49.2 U		905000		1540		50.0 U		51.7 U	
M76	12/04/2006		R			9.8 U		78200		13.9 UJ		31.4 J		10.3 U	
M76-F	05/09/2007	R			24.6 U		77000		17.1 U		29.5 J		25.8 U		5.0 U
M76-L	05/09/2007			470 UJ		24.6 U		79200		23.3 U		30.0 J		25.8 U	
M76-Z	05/09/2007			470 UJ		24.6 U		74600		17.1 U		29.4 J		25.8 U	
M7B	11/30/2006			188 UJ		9.8 U		394000		34.2 U		26.4 J		19.5 J	
M7B-F	05/08/2007	R			24.6 U		418000		17.1 U		27.5 J		25.8 UJ		5.0 U
M7B-L	05/08/2007			2410 J		24.6 U		421000		64.1 U		34.6 J		25.8 U	
M7B-Z	05/08/2007			470 UJ		24.6 U		408000		17.1 U		25.0 U		25.8 UJ	
M89	12/05/2006		R			4.9 U		369000		9.3 UJ		16.2 J		19.1 J	
M89-F	05/11/2007	R			49.2 U		390000		34.2 U		50.0 U		51.7 U		10.0 U
M89-L	05/11/2007			940 UJ		49.2 U		379000		34.2 U		50.0 U		51.7 U	
M89-Z	05/11/2007			940 UJ		49.2 U		406000		34.2 U		50.0 U		51.7 U	
M92	11/29/2006			1010 J-		0.82 J		67000		35.3 U		17.3		5.8	
M92-F	05/08/2007	R			0.49 U		79800		6.8 U		16.4		6.8 J-		0.10 U
M92-L	05/08/2007			188 U		0.49 U		78700		8.7 U		16.8		4.5 J-	
M92-Z	05/08/2007			188 UJ		0.49 U		83500		6.8 U		18.7		10.3 UJ	
M95	12/04/2006		R			12.3 U		212000		68.9 UJ		39.3 J		22.7 J	
M95-F	05/10/2007	R			24.6 U		204000 J-	27.6 J			39.4 J		25.8 U		5.0 U
M95-FD	05/10/2007		R			24.6 U		216000 J-		31.0 J		40.5 J		25.8 U	
M95-L	05/10/2007		R			24.6 U		199000		31.6 U		37.7 J		25.8 U	
M95-LD	05/10/2007		R			24.6 U		205000		31.9 U		40.5 J		25.8 U	
M95-Z	05/10/2007		R			24.6 U		202000		27.5 U		38.7 J		25.8 U	
M95-ZD	05/10/2007		R			24.6 U		213000		31.9 U		40.0 J		25.8 U	
M97	11/29/2006			188 UJ		9.8 U		192000		14.6 U		19.6 J		11.4 J	
M97-F	05/11/2007	R			12.3 U		186000		8.5 U		17.1 J		12.9 U		2.5 U
M97-L	05/11/2007			235 UJ		12.3 U		188000		8.5 U		18.5 J		12.9 U	
M97-Z	05/11/2007			235 UJ		12.3 U		182000		8.5 U		17.2 J		12.9 U	
M98	11/30/2006			188 UJ		9.8 U		147000		6.8 U		27.1 J		10.3 U	
MC45	12/06/2006		R			2.8 J		230000		553 J-		30.0		7.2	
MC45-F	05/07/2007	R			0.49 U		315000		697 J+		27.4		7.0 J-		0.10 U
MC45-L	05/07/2007			188 UJ		0.75 U		341000		723		27.1		6.8 J-	
MC45-Z	05/07/2007			188 UJ		0.49 U		306000		721		28.5		7.4 J-	
PC40	12/01/2006			1510 J-		12.3 U		268000		873		47.6 J		23.9 J	
PC40-F	05/07/2007	R			0.49 U		291000		479 J+		39.8		10.0 J-		0.10 U
PC40-L	05/07/2007			3640 J		2.4 U		349000		729		40.1		12.2 J-	
PC40-Z	05/07/2007			188 UJ		0.49 U		302000		558		41.8		10.0 J-	
GWSA2	11/06/2006	9.4 UJ	147000 J	9.8 U	135	38000 J	420000 J	18.7 J+	4340 J+	97.9	72.8	3.7 J	268 J	0.10 U	
GWSA9	11/07/2006	188 UJ	5550 J	9.8 U	9.8 U	278000 J	309000 J	34.2 J+	138 J+	8.3	8.8	18.4 J-	14.6 J	0.10 U	
GWSA10	11/07/2006	188 UJ	203000 J	9.8 U	237	95600 J	1160000 J	14.3 J+	5830 J+	19.5	12.5 J	10.3 UJ	325 J	0.10 U	
GWSA14	11/08/2006	188 UJ	300000 J	9.8 U	627	557000 J	5220000 J	35.6 J+	12700 J+	12.7	4.2 J	31.7 J	1010 J	0.10 U	
GWSA15	11/08/2006	188 UJ	113000 J	9.8 U	94.9	144000 J	571000 J	28.4 J+	2640 J+	66.5	68.0	13.6 J-	150 J-	56.0	

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
		Analytic Method	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
Chemical Name	Fraction	Units	Platinum T ug/L	Potassium S ug/L	Potassium T ug/L	Selenium S ug/L	Selenium T ug/L	Silver S ug/L	Silver T ug/L	Sodium S ug/L	Sodium T ug/L	Strontium S ug/L	Strontium T ug/L	Thallium S ug/L	Thallium T ug/L
IAR_12/01/2006	12/01/2006		2 U		35100		20 U		4.1 U		688000		9520		6.4 U
IAR-F	05/08/2007			34500		1.0 U		0.20 U		873000		8490		0.86 U	
IAR-Z	05/08/2007		1.1		34800		1.0 U		0.20 U		918000		8820		0.71 U
M100	12/04/2006		1 U		6680		10 U		2 U		304000		3940 J		3.2 U
M100D	12/04/2006		1 U		6620		10 U		2 U		302000		3890 J		3.2 U
M100-F	05/09/2007			7060		10.0 U		2.0 U		309000		4500		3.2 U	
M100-L	05/09/2007		1.0 U		6830		10.0 U		2.0 U		299000		4320		4.3 U
M100-Z	05/09/2007		1.0 U		6780		10.0 U		2.0 U		300000		4400		3.2 U
M11	12/06/2006		0.1 U		15100		2.8 J		0.2 U		968000		1250 J-		0.32 U
M11D	12/06/2006		0.1 U		14900		3.2 J		0.2 U		970000		1240 J-		0.32 U
M11-F	05/11/2007			18600		50.0 U		10.1 U		910000		1200		22.2 J	
M11-Z	05/11/2007		5.0 U		19900		50.0 U		10.1 U		953000		1300		16.0 U
M120	11/28/2006		0.1 U		8960		2.2 J		0.2 U		181000		3100		0.47 J
M120-F	05/04/2007			9240		1.9 J		0.20 U		220000		3790		0.63 U	
M120-L	05/04/2007		0.10 U		9810		1.7 J		0.20 U		222000		3930		0.32 U
M120-Z	05/04/2007		0.10 U		9680		1.9 J		0.20 U		220000		3950		0.32 U
M12A	12/05/2006		1 U		41700		10 U		2 U		2310000		1770 J-		7.8 U
M12A-F	05/11/2007			42400		100 U		20.3 U		2200000		1550		32.0 U	
M12A-L	05/11/2007		10.0 U		42400		100 U		20.3 U		2270000		1550		32.0 U
M12A-Z	05/11/2007		10.0 U		44400		100 U		20.3 U		2330000		1620		32.0 U
M13	12/01/2006		2 U		14100		20 U		4.1 U		679000		5450		6.4 U
M13-F	05/09/2007			13700		25.0 U		5.1 U		633000		5000		8.0 U	
M13-L	05/09/2007		2.5 U		13900		25.0 U		5.1 U		617000		5690		8.0 U
M13-Z	05/09/2007		2.5 U		13500		25.0 U		5.1 U		613000		5000		8.0 U
M29	11/17/2006		0.1 U	15900 J-	15000 J-	5.4 J	4.8 UJ	0.2 U	0.2 U	525000	442000	10400	9290	0.32 U	0.32 U
M2A	12/04/2006		2.5 U		32000		25 U		5.1 U		1620000		19100		8 U
M2A-F	05/09/2007			35600		50.0 U		10.1 U		1660000		19500		16.0 U	
M2A-L	05/09/2007		5.0 U		35800		50.0 U		10.1 U		1710000		19900		16.0 U
M2A-Z	05/09/2007		5.0 U		34100		50.0 U		10.1 U		1620000		18600		16.0 U
M31A	12/06/2006		1 U		23100		10 U		2 U		1710000		14700 J-		3.2 U
M31A-F	05/09/2007			23400		50.0 U		10.1 U		1650000		14500		16.0 U	
M31A-Z	05/09/2007		5.0 U		23600		50.0 U		10.1 U		1650000		14800		16.0 U
M39-Z	05/10/2007		5.0 U		24200		50.0 U		10.1 U		864000		14500		16.0 U
M39-F	05/10/2007			24500		50.0 U		10.1 U		853000		14600		16.0 U	
M39-L	05/10/2007		5.0 U		24500		50.0 U		10.1 U		861000		14700		16.0 U
M39-ZD	05/10/2007		5.0 U		24700		50.0 U		10.1 U		866000		14700		16.0 U
M39-LD	05/10/2007		5.0 U		24500		50.0 U		10.1 U		856000		14400		16.0 U
M39-FD	05/10/2007		5.0 U		24400		50.0 U		10.1 U		856000		14500		16.0 U
M39	12/05/2006		1 U		24100		10 U		2 U		909000		15300 J-		3.2 U
M48	12/06/2006		0.1 U		7480		2.0 J		0.2 U		497000		6730 J-		0.32 U
M48-F	05/10/2007			10100		20.0 U		4.1 U		482000		6890		6.4 U	
M48-L	05/10/2007		2.0 U		9890		20.0 U		4.1 U		470000		6850		9.7 J
M48-Z	05/10/2007		2.0 U		9940		20.0 U		4.1 U		479000		6840		6.4 U
M55	12/07/2006		1 U		42300		10 U		2 U		1740000		14700 J-		3.2 U
M55D	12/07/2006		1 U		41400		10 U		2 U		1840000		16100 J		3.2 U
M55-F	05/08/2007			47100		50.0 U		10.1 U		1750000		15700		16.0 U	
M55-L	05/08/2007		5.0 U		48200		50.0 U		10.1 U		1760000		16000		16.0 U

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
		Chemical Name	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
	Fraction Units	Platinum T ug/L	Potassium S ug/L	Potassium T ug/L	Selenium S ug/L	Selenium T ug/L	Silver S ug/L	Silver T ug/L	Sodium S ug/L	Sodium T ug/L	Strontium S ug/L	Strontium T ug/L	Thallium S ug/L	Thallium T ug/L	
M55-Z	05/08/2007		5.0 U	48100		50.0 U		10.1 U		1780000		16100		16.0 U	
M5A	12/07/2006		0.1 U	16300		1 U		0.2 U		1970000		25800 J-		0.32 U	
M5A-F	05/10/2007			20200		100 U		20.3 U		1780000		23300		32.0 U	
M5A-L	05/10/2007		10.0 U	19900		100 U		20.3 U		1770000		23400		32.0 U	
M5A-Z	05/10/2007		10.0 U	21100		100 U		20.3 U		1860000		23900		32.0 U	
M76	12/04/2006		2 U	16600		20 U		4.1 U		1040000		3420 J-		6.4 U	
M76-F	05/09/2007			17000		50.0 U		10.1 U		1020000		3250		16.0 U	
M76-L	05/09/2007		5.0 U	17200		50.0 U		10.1 U		1030000		3320		16.0 U	
M76-Z	05/09/2007		5.0 U	16900		50.0 U		10.1 U		978000		3170		16.0 U	
M7B	11/30/2006		2 U	22800		20 U		4.1 U		1400000		17200		6.4 U	
M7B-F	05/08/2007			23300		50.0 U		10.1 U		1480000		17600		16.0 U	
M7B-L	05/08/2007		5.0 U	25100		50.0 U		10.1 U		1500000		18000		33.4 U	
M7B-Z	05/08/2007		5.0 U	22500		50.0 U		10.1 U		1430000		16900		16.0 U	
M89	12/05/2006		1 U	38900		10 U		2 U		2300000		21200 J-		3.2 U	
M89-F	05/11/2007			37200		100 U		20.3 U		1970000		18900		32.0 U	
M89-L	05/11/2007		10.0 U	36800		100 U		20.3 U		1980000		18700		32.0 U	
M89-Z	05/11/2007		10.0 U	38200		100 U		20.3 U		2050000		19800		32.0 U	
M92	11/29/2006		0.1 U	11400		3.0 J		0.2 U		306000		3090		0.32 U	
M92-F	05/08/2007			9190		1.1 J		0.20 U		360000		2770		0.32 U	
M92-L	05/08/2007		0.10 U	9880		1.1 J		0.20 U		335000		2960		0.32 U	
M92-Z	05/08/2007		0.10 U	9650		2.3 J		0.20 U		373000		2760		1.0 U	
M95	12/04/2006		2.5 U	16800		25 U		5.1 U		1330000		14300 J-		8 U	
M95-F	05/10/2007			15200		50.0 U		10.1 U		1290000		12900		16.0 U	
M95-FD	05/10/2007		5.0 U	15700		50.0 U		10.1 U		1330000		14000		16.0 U	
M95-L	05/10/2007		5.0 U	14900		50.0 U		10.1 U		1260000		12600		16.0 U	
M95-LD	05/10/2007		5.0 U	14900		50.0 U		10.1 U		1280000		13100		16.0 U	
M95-Z	05/10/2007		5.0 U	15100		50.0 U		10.1 U		1270000		12900		16.0 U	
M95-ZD	05/10/2007		5.0 U	15700		50.0 U		10.1 U		1330000		13300		16.0 U	
M97	11/29/2006		2 U	17300		20 U		4.1 U		623000		7620		6.4 U	
M97-F	05/11/2007			16100		25.0 U		5.1 U		596000		7270		8.0 U	
M97-L	05/11/2007		2.5 U	16000		25.0 U		5.1 U		607000		7270		8.0 U	
M97-Z	05/11/2007		2.5 U	15900		25.0 U		5.1 U		598000		7070		8.0 U	
M98	11/30/2006		2 U	8110		20 U		4.1 U		847000		6620		6.4 U	
MC45	12/06/2006		0.1 U	34300		2.3 J		0.2 U		3480000		9140 J-		0.40 U	
MC45-F	05/07/2007			37100		1.0 U		0.20 U		3560000		8020		0.33 U	
MC45-L	05/07/2007		0.10 U	37600		1.0 U		0.20 U		3570000		8070		0.39 U	
MC45-Z	05/07/2007		0.10 U	38500		1.0 U		0.20 U		3420000		8330		0.33 U	
PC40	12/01/2006		2.5 U	29000		25 U		5.1 U		3380000		14800		8 U	
PC40-F	05/07/2007			24600		1.0 U		0.20 U		3960000		12200		0.32 U	
PC40-L	05/07/2007		0.10 U	24800		1.0 U		0.20 U		3940000		12100		0.32 U	
PC40-Z	05/07/2007		0.10 U	26400		1.0 U		0.20 U		3820000		13100		0.32 U	
GWSA2	11/06/2006		0.50 U	7240 J-	60500 J-	3.5 J	5.0 U	0.20 U	1.2 J	368000 J	305000 J	1430 J+	2630 J+	6.4 U	7.3 J
GWSA9	11/07/2006		0.10 U	31100 J-	21600 J-	1.4 J	1.0 U	0.20 U	0.30 J	78800 J-	3590000 J	14100 J	7670 J+	6.4 U	6.4 U
GWSA10	11/07/2006		0.50 U	14100 J-	73500 J-	2.9 J	5.0 U	0.20 U	1.4 J	308000 J	289000 J	5350 J	8110 J+	6.4 U	7.7 J
GWSA14	11/08/2006		0.5 U	31500 J-	151000 J-	1.0 U	5 U	0.20 U	3.0 J	2350000 J	2300000 J	27700 J+	44500 J+	6.4 U	32.0 U
GWSA15	11/08/2006		63.9	42200 J-	78800 J-	1.9 J	9.2 J	0.20 U	1.7 J	2940000 J	3180000 J	10300 J	12900 J	6.4 U	6.4 U

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
		SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
		Chemical Name	Tin	Tin	Titanium	Titanium	Tungsten	Tungsten	Uranium	Uranium	Vanadium	Vanadium	Zinc	
		Fraction	S	T	S	T	S	T	S	T	S	T	S	
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
IAR 12/01/2006	12/01/2006			4 U		7.8 U		10.0 U		28.9		32 U	492 J-	
IAR-F	05/08/2007		0.20 U		4.6		1.0 U		42.9 J+		32.0 UJ		45.6 J-	
IAR-Z	05/08/2007			0.20 U		4.2 U		0.82 UJ		37.5 J+		32.0 U	40.2 UJ	
M100	12/04/2006			2 U		6.0 J		5 UJ		22.7		207 J-	25.6 U	
M100D	12/04/2006			2 U		3.9 U		5 UJ		22.2		209 J-	24.0 U	
M100-F	05/09/2007		2.0 U		3.9 U		5.0 U		25.0		181		25.8 J	
M100-L	05/09/2007			2.0 U		10.2 U		8.6 J		25.1		185	27.0 U	
M100-Z	05/09/2007			2.0 U		6.1 U		5.5 J		25.1		163	25.7 U	
M11	12/06/2006			0.2 U		7.8 U		10 UJ		15.7		75.6 J-	39.7 U	
M11D	12/06/2006			0.2 U		7.8 U		10 UJ		15.5		84.0 J-	59.3 U	
M11-F	05/11/2007		10.0 U		19.6 U		27.7 J		14.5 J		107 J	50.0 U		
M11-Z	05/11/2007			10.0 U		19.6 U		25.0 U		15.0 J		121 J	50.0 U	
M120	11/28/2006			0.87 J		1.9 J		0.50 U		33.7		19.3 J	7.6 UJ	
M120-F	05/04/2007		0.20 U		3.6		0.91 U		42.5 J+		11.1 J+		3.5 J-	
M120-L	05/04/2007			0.20 U		9.1		0.50 UJ		43.0 J+		10.7	2.7 J-	
M120-Z	05/04/2007			0.20 U		4.7		0.50 UJ		43.2 J+		9.6 J	2.7 J-	
M12A	12/05/2006			3.6 J		43.4 J		50 UJ		42.2		R	101 U	
M12A-F	05/11/2007		20.0 U		39.1 U		50.0 U		37.5 J		160 UJ	100 U		
M12A-L	05/11/2007			20.0 U		39.1 U		50.0 U		37.6 J		160 UJ	100 U	
M12A-Z	05/11/2007			20.0 U		39.1 U		50.0 U		39.4 J		160 UJ	100 U	
M13	12/01/2006			4 U		7.8 U		10.0 U		23.3		32 U	68.8 UJ	
M13-F	05/09/2007		5.0 U		9.8 U		12.5 U		24.6 J		40.0 U	75.9 J		
M13-L	05/09/2007			5.0 U		9.8 U		12.5 U		21.4 J		40.0 U	77.9 J	
M13-Z	05/09/2007			5.0 U		9.8 U		12.5 U		23.8 J		40.0 U	48.1 U	
M29	11/17/2006		0.2 U	0.34 J	6.5 J-	216 J-	5 U	5 U	241	201	50.7 J-	57.2 J-	16.8 J-	31.3 J-
M2A	12/04/2006			5 U		9.8 U		12.5 UJ		17.2 J		R	35.6 U	
M2A-F	05/09/2007		10.0 U		19.6 U		25.0 U		19.7 J		80.0 U		142 J	
M2A-L	05/09/2007			10.0 U		86.8 J		25.0 U		20.7 J		80.0 U	155 J	
M2A-Z	05/09/2007			10.0 U		19.6 U		25.0 U		19.0 J		80.0 U	146 J	
M31A	12/06/2006			2.5 J		72.0 U		50 UJ		27.1		R	676 U	
M31A-F	05/09/2007		10.0 U		19.6 U		25.0 U		27.6 J		80.0 U		103 J	
M31A-Z	05/09/2007			10.0 U		33.6 J		25.0 U		28.9 J		80.0 U	97.5 J	
M39-Z	05/10/2007			10.0 U		19.6 U		25.0 U		106		80.0 UJ	50.0 U	
M39-F	05/10/2007		10.0 U		19.6 U		25.0 U		103		80.0 UJ		50.0 U	
M39-L	05/10/2007			10.0 U		19.6 U		25.0 U		104		80.0 UJ	50.0 U	
M39-ZD	05/10/2007			10.0 U		19.6 U		25.0 U		106		80.0 UJ	50.0 U	
M39-LD	05/10/2007			10.0 U		19.6 U		25.0 U		101		80.0 UJ	50.0 U	
M39-FD	05/10/2007			10.0 U		19.6 U		25.0 U		105		80.0 UJ	50.0 U	
M39	12/05/2006			2 U		39.1 U		50 UJ		103		R	100 U	
M48	12/06/2006			0.2 U		7.8 U		24.4 J		39.4		65.3 J-	20 U	
M48-F	05/10/2007		4.0 U		7.8 U		29.2 J		40.6		107 J	20.0 U		
M48-L	05/10/2007			4.0 U		7.8 U		39.0 J		40.7		112 J	36.9 J	
M48-Z	05/10/2007			4.0 U		7.8 U		30.5 J		40.9		99.9 J	20.0 U	
M55	12/07/2006			2 U		39.1 U		50 UJ		45.3		R	100 U	
M55D	12/07/2006			2 U		39.1 U		50 UJ		45.3		R	100 U	
M55-F	05/08/2007		10.0 U		19.6 U		25.0 U		48.8 J+		80.0 UJ		87.5 J-	
M55-L	05/08/2007			10.0 U		19.6 U		25.0 UJ		49.5 J+		80.0 UJ	93.4 J-	

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
		Analytic Method	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020	SW 846 6020
Chemical Name	Fraction	Units	Tin S	Tin T	Titanium S	Titanium T	Tungsten S	Tungsten T	Uranium S	Uranium T	Vanadium S	Vanadium T	Zinc S	Zinc T
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
M55-Z	05/08/2007			10.0 U		19.6 U		25.0 UJ		49.1 J+		80.0 UJ		50.0 UJ
M5A	12/07/2006			0.52 J		29.8 U		25 UJ		33.6		R		77.7 U
M5A-F	05/10/2007		20.0 U		39.1 U		50.0 U		45.3 J		160 UJ		100 U	
M5A-L	05/10/2007			20.0 U		39.1 U		50.0 U		47.8 J		160 UJ		100 U
M5A-Z	05/10/2007			20.0 U		39.1 U		50.0 U		46.4 J		160 UJ		100 U
M76	12/04/2006			4 U		8.6 J		10 UJ		11.1 J		R		24.8 U
M76-F	05/09/2007		10.0 U		19.6 U		25.0 U		11.4 J		80.0 U		92.6 J	
M76-L	05/09/2007			10.0 U		19.6 U		25.0 U		11.8 J		80.0 U		538
M76-Z	05/09/2007			10.0 U		19.6 U		25.0 U		11.3 J		80.0 U		96.5 J
M7B	11/30/2006			4 U		10.8 J		50.0 U		43.6		160 U		21.4 UJ
M7B-F	05/08/2007		10.0 U		19.6 U		25.0 U		46.3 J+		80.0 UJ		87.0 J-	
M7B-L	05/08/2007			10.0 U		192		25.4 J		50.6		80.0 UJ		140 J
M7B-Z	05/08/2007			10.0 U		19.6 U		25.0 UJ		44.9 J+		80.0 UJ		86.2 J-
M89	12/05/2006			2 U		39.1 U		50 UJ		27.9		R		105 U
M89-F	05/11/2007		20.0 U		39.1 U		50.0 U		25.9 J		160 UJ		100 U	
M89-L	05/11/2007			20.0 U		39.1 U		50.0 U		25.7 J		160 UJ		100 U
M89-Z	05/11/2007			20.0 U		39.1 U		50.0 U		26.7 J		160 UJ		100 U
M92	11/29/2006			0.2 U		71.8		0.63 J		5.6		36.7 J		17.2 UJ
M92-F	05/08/2007		0.20 U		2.7		0.92 U		8.4 J+		32.0 UJ		3.5 J-	
M92-L	05/08/2007			0.20 U		31.7		0.63 UJ		5.9 J+		24.1		6.6 UJ
M92-Z	05/08/2007			0.23 J		4.9 U		1.8 UJ		8.3 J+		32.0 U		2.0 UJ
M95	12/04/2006			5 U		68.9		12.5 UJ		55.7		62.7 J-		54.0 U
M95-F	05/10/2007		10.0 U		19.6 U		25.0 U		63.6		80.0 UJ		50.0 U	
M95-FD	05/10/2007			10.0 U		19.6 U		25.0 U		67.9		80.0 UJ		50.0 U
M95-L	05/10/2007			10.0 U		19.6 U		25.0 U		61.1		80.0 UJ		50.0 U
M95-LD	05/10/2007			10.0 U		19.6 U		25.0 U		64.8		80.0 UJ		50.0 U
M95-Z	05/10/2007			10.0 U		19.6 U		25.0 U		63.8		80.0 UJ		50.0 U
M95-ZD	05/10/2007			10.0 U		19.6 U		25.0 U		66.8		80.0 UJ		50.0 U
M97	11/29/2006			4 U		22.3 J		10.0 U		34.6		43.0 J		45.2 UJ
M97-F	05/11/2007		5.0 U		9.8 U		12.5 U		34.9		40.0 UJ		25.0 U	
M97-L	05/11/2007			5.0 U		9.8 U		12.5 U		36.1		40.4 J		25.0 U
M97-Z	05/11/2007			5.0 U		9.8 U		12.5 U		36.1		40.0 UJ		25.0 U
M98	11/30/2006			4 U		7.8 U		10.0 U		41.1		133 J		20 UJ
MC45	12/06/2006			5.0		18.0 U		10 UJ		22.7		560 J-		25.6 U
MC45-F	05/07/2007		0.20 U		5.1		4.4 J		36.1 J+		561 J+		3.0 J-	
MC45-L	05/07/2007			0.66 J		5.5 U		4.6 J-		34.7 J+		570		6.0 UJ
MC45-Z	05/07/2007			0.41 J		5.3 U		4.7 J-		34.0 J+		580		4.5 UJ
PC40	12/01/2006			5 U		131		50.0 U		57.7		212 J		36.8 UJ
PC40-F	05/07/2007		0.20 U		5.4		4.1 J		64.0 J+		177 J+		3.4 J-	
PC40-L	05/07/2007			0.35 J		181		4.7 J-		79.5 J+		182		20.4 UJ
PC40-Z	05/07/2007			0.20 U		12.2		4.3 J-		67.3 J+		194		4.0 UJ
GWSA2	11/06/2006		0.20 UJ	6.3 J-	4.6 J	7870 J	6.2 J-	8.4 J-	9.5 J	47.4	54.5 J-	510 J-	20.0 UJ	688 J
GWSA9	11/07/2006		0.20 UJ	0.67 J-	7.1 J	469 J	0.70 J-	0.72 J-	33.7	36.0	12.1 J-	26.4 J-	25.7 UJ	80.7 UJ
GWSA10	11/07/2006		0.20 UJ	5.2 J-	4.8	6090 J	1.2 J-	2.5 UJ	6.2 J	110	20.1 J-	404 J-	20.0 UJ	1400 J
GWSA14	11/08/2006		0.20 UJ	1.6 J-	7.5 J	1260 J	0.68 J-	2.5 UJ	21.3	314	10.6 J-	229 J-	20.0 UJ	3370 J
GWSA15	11/08/2006		0.20 UJ	6.8 J-	5.4 J	5520 J	1.2 J-	2.5 UJ	18.9 J	54.4	8.8 J-	256 J-	20.0 UJ	514 J-

**Table 4-5**  
**Metals Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

F	Sample ID suffix indicating the sample was collected using low-flow pumping rates (150-480 ml/min) and field filtered.
L	Sample ID suffix indicating the sample was collected using low low-flow pumping rates (100-150 ml/min).
Z	Sample ID suffix indicating the sample was collected using low-flow pumping rates (150-480 ml/min).
D	Dissolved Metals
DO	Dissolved Oxygen
T	Total Metals
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity and the result may be biased high.
J-	The result is an estimated quantity and the result may be biased low.
ml/min	Milliliters per minute.
nm	Not measured.
NTUs	Nephelometric Turbidity Units.
ORP	Oxidation-reduction potential.
UJ	The analyte was not detected above the laboratory method detection limit and the limit is approximate.
U	The analyte was analyzed for, but was not detected above the laboratory method detection limit.
R	The result was rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
ug/L	Micrograms per liter.
Blank	Not analyzed.
<b>Bold</b>	<b>Bold</b> values are constituents detected above the laboratory method detection limit.
Gray	Grayed out values are non-detected values with the laboratory method detection limits shown.

**Table 4-7**  
**Organochlorine Pesticide (OCP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		Pesticide SW 846 8081 4,4'-DDD ug/L	Pesticide SW 846 8081 4,4'-DDE ug/L	Pesticide SW 846 8081 4,4'-DDT ug/L	Pesticide SW 846 8081 Aldrin ug/L	Pesticide SW 846 8081 Alpha-BHC ug/L	Pesticide SW 846 8081 Alpha-chlordane ug/L	Pesticide SW 846 8081 Beta-BHC ug/L	Pesticide SW 846 8081 Delta-BHC ug/L	Pesticide SW 846 8081 Dieldrin ug/L	Pesticide SW 846 8081 Endosulfan I ug/L	Pesticide SW 846 8081 Endosulfan II ug/L	Pesticide SW 846 8081 Endosulfan Sulfate ug/L
Sample ID	Sample Date												
IAR_12/01/2006	12/01/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M100	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.082</b>	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M100D	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.087</b>	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M11	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M11D	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M120	11/28/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M12A	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M13	12/01/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M29	11/17/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M2A	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M31A	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M39	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M48	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.20</b>	0.050 U	0.050 U	<b>0.09 J</b>	0.050 U	0.050 U	0.050 U	0.050 U
M55	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M55D	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M5A	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>1.8 J+</b>	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M76	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M7B	11/30/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.078</b>	0.050 U	0.050 U	0.050 U	0.050 U
M89	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M92	11/29/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M95	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.081</b>	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M97	11/29/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
M98	11/30/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
MC45	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.79</b>	0.050 U	<b>10 J-</b>	<b>0.98</b>	0.050 U	0.050 U	0.050 U	0.050 U
PC40	12/01/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>3.1</b>	0.050 U	0.050 U	<b>2.0</b>	0.050 U	0.050 U	0.050 U	0.050 U
GWSA2	11/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GWSA9	11/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.11 J</b>	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GWSA10	11/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GWSA14	11/08/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.13</b>	0.050 U	<b>0.14</b>	<b>0.11 J</b>	0.050 U	0.050 U	0.050 U	0.050 U
GWSA15	11/08/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

**Table 4-7**  
**Organochlorine Pesticide (OCP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		Pesticide	Pesticide	Pesticide	Pesticide	Pesticide	Pesticide	Pesticide	Pesticide	Pesticide	Pesticide
Analytic Method		SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081	SW 846 8081
Chemical Name		Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Tech-Chlordane	Toxaphene
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date										
IAR_12/01/2006	12/01/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M100	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M100D	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M11	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M11D	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M120	11/28/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M12A	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M13	12/01/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M29	11/17/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M2A	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M31A	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M39	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M48	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M55	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M55D	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M5A	12/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.41 J+</b>	0.050 U	<b>0.12 J+</b>	0.50 U	2.0 U
M76	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M7B	11/30/2006	0.050 U	0.050 U	0.050 U	<b>0.20</b>	0.050 U	<b>0.25 J</b>	0.050 U	0.10 U	0.50 U	2.0 U
M89	12/05/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M92	11/29/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M95	12/04/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M97	11/29/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
M98	11/30/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.17 J</b>	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
MC45	12/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
PC40	12/01/2006	0.050 U	0.050 U	0.050 U	<b>0.57 J</b>	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
GWSA2	11/06/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
GWSA9	11/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	<b>0.10</b>	<b>0.061</b>	0.050 U	0.10 U	0.50 U	2.0 U
GWSA10	11/07/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
GWSA14	11/08/2006	0.050 U	0.050 U	0.050 U	<b>0.097</b>	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U
GWSA15	11/08/2006	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.50 U	2.0 U



**Table 4-7**  
**Organochlorine Pesticide (OCP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

**Notes:**

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity and the result may be biased high.
- J- The result is an estimated quantity and the result may be biased low.
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- ug/L Micrograms per liter.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-9**  
**Organophosphorus Pesticide (OPP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		O. Pesticides SW 846 8141A Azinphos-methyl ug/L	O. Pesticides SW 846 8141A Bolstar ug/L	O. Pesticides SW 846 8141A Chlorpyrifos ug/L	O. Pesticides SW 846 8141A Coumaphos ug/L	O. Pesticides SW 846 8141A Demeton-O ug/L	O. Pesticides SW 846 8141A Demeton-S ug/L	O. Pesticides SW 846 8141A Diazinon ug/L	O. Pesticides SW 846 8141A Dichlorvos ug/L	O. Pesticides SW 846 8141A Dimethoate ug/L	O. Pesticides SW 846 8141A Disulfoton ug/L
Sample ID	Sample Date										
IAR_12/01/2006	12/01/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M100	12/04/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M100D	12/04/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M11	12/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M11D	12/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M120	11/28/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M12A	12/05/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M13	12/01/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M29	11/17/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M2A	12/04/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M31A	12/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M39	12/05/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M48	12/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M55	12/07/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M55D	12/07/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M5A	12/07/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M76	12/04/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	0.50 U
M7B	11/30/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M89	12/05/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M92	11/29/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M95	12/04/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
M97	11/29/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
M98	11/30/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MC45	12/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
PC40	12/01/2006	2.5 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
GWSA2	11/06/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.50 U
GWSA9	11/07/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.50 U
GWSA10	11/07/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.50 U
GWSA14	11/08/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
GWSA15	11/08/2006	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U

**Table 4-9**  
**Organophosphorus Pesticide (OPP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides	O. Pesticides
Analytic Method		SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A	SW 846 8141A
Chemical Name		EPN	Ethoprop	Ethyl Parathion	Famphur	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date										
IAR_12/01/2006	12/01/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M100	12/04/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M100D	12/04/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M11	12/06/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M11D	12/06/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M120	11/28/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M12A	12/05/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M13	12/01/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M29	11/17/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M2A	12/04/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M31A	12/06/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M39	12/05/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M48	12/06/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M55	12/07/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M55D	12/07/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M5A	12/07/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M76	12/04/2006	1.2 UJ	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M7B	11/30/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M89	12/05/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M92	11/29/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M95	12/04/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M97	11/29/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
M98	11/30/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
MC45	12/06/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
PC40	12/01/2006	1.2 U	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
GWSA2	11/06/2006	1.2 UJ	0.50 U	1.0 U	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
GWSA9	11/07/2006	1.2 UJ	0.50 U	1.0 U	1.0 U	2.5 UJ	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
GWSA10	11/07/2006	1.2 UJ	0.50 U	1.0 U	1.0 U	2.5 UJ	2.5 U	1.2 U	5.0 U	4.0 U	6.2 U
GWSA14	11/08/2006	1.2 UJ	0.50 U	1.0 UJ	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 UJ	6.2 U
GWSA15	11/08/2006	1.2 UJ	0.50 U	1.0 UJ	1.0 U	2.5 U	2.5 U	1.2 U	5.0 U	4.0 UJ	6.2 U

**Table 4-9**  
**Organophosphorus Pesticide (OPP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		O. Pesticides SW 846 8141A Naled ug/L	O. Pesticides SW 846 8141A Phorate ug/L	O. Pesticides SW 846 8141A Ronnal ug/L	O. Pesticides SW 846 8141A Stirphos ug/L	O. Pesticides SW 846 8141A Sulfotep ug/L	O. Pesticides SW 846 8141A Thionazin ug/L	O. Pesticides SW 846 8141A Tokuthion ug/L	O. Pesticides SW 846 8141A Trichloronate ug/L
Sample ID	Sample Date								
IAR_12/01/2006	12/01/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M100	12/04/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M100D	12/04/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M11	12/06/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M11D	12/06/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M120	11/28/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M12A	12/05/2006	1.0 UJ	1.2 UJ	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M13	12/01/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M29	11/17/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M2A	12/04/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M31A	12/06/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M39	12/05/2006	1.0 UJ	1.2 UJ	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M48	12/06/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M55	12/07/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M55D	12/07/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M5A	12/07/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M76	12/04/2006	1.0 U	1.2 UJ	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M7B	11/30/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M89	12/05/2006	1.0 UJ	1.2 UJ	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M92	11/29/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M95	12/04/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M97	11/29/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
M98	11/30/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
MC45	12/06/2006	1.0 U	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
PC40	12/01/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
GWSA2	11/06/2006	1.0 UJ	1.2 U	10 U	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
GWSA9	11/07/2006	1.0 UJ	1.2 U	10 UJ	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
GWSA10	11/07/2006	1.0 UJ	1.2 U	10 UJ	3.5 U	1.5 U	1.0 U	1.6 U	0.50 U
GWSA14	11/08/2006	1.0 UJ	1.2 U	10 U	3.5 UJ	1.5 U	1.0 U	1.6 U	0.50 U
GWSA15	11/08/2006	1.0 UJ	1.2 U	10 U	3.5 UJ	1.5 U	1.0 U	1.6 U	0.50 U

**Table 4-9**  
**Organophosphorus Pesticide (OPP) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- U     The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- UJ    The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- ug/L   Micrograms per liter.
- Gray   Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-11**  
**Herbicides Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

		Analyte Type	Herbicide
		Analytic Method	SW 846 8151
		Chemical Name	2,4,5-TP (Silvex)
		Report Result Unit	ug/L
Sample ID	Sample Date		
M100	12/04/2006		1.0 U
M100D	12/04/2006		1.0 U
M7B	11/30/2006		1.0 U
M98	11/30/2006		1.0 U

Notes:

- U The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- ug/kg Micrograms per liter.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-13**  
**Polychlorinated Biphenyl (PCB) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		PCB SW 846 8082 Aroclor-1016 ug/L	PCB SW 846 8082 Aroclor-1221 ug/L	PCB SW 846 8082 Aroclor-1232 ug/L	PCB SW 846 8082 Aroclor-1242 ug/L	PCB SW 846 8082 Aroclor-1248 ug/L	PCB SW 846 8082 Aroclor-1254 ug/L	PCB SW 846 8082 Aroclor-1260 ug/L
Sample ID	Sample Date							
IAR_12/01/2006	12/01/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M100	12/04/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M100D	12/04/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M11	12/06/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M11D	12/06/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M120	11/28/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M12A	12/05/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M13	12/01/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M29	11/17/2006	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
M2A	12/04/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M31A	12/06/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M39	12/05/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M48	12/06/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M55	12/07/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M55D	12/07/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M5A	12/07/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M76	12/04/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M7B	11/30/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M89	12/05/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M92	11/29/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M95	12/04/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M97	11/29/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
M98	11/30/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
MC45	12/06/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
PC40	12/01/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GWSA2	11/06/2006	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
GWSA9	11/07/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GWSA10	11/07/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GWSA14	11/08/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GWSA15	11/08/2006	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

**Table 4-13**  
**Polychlorinated Biphenyl (PCB) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- ug/L Micrograms per liter.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.



**Table 4-15**  
**Perchlorate Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type Analytic Method Chemical Name Units	Perchlorate EPA 314.0 Perchlorate ug/L
IAR_12/01/2006	12/01/2006		4160000
M100	12/04/2006		51400 J+
M100D	12/04/2006		50700 J+
M11	12/06/2006		32500 J+
M11D	12/06/2006		32400 J+
M120	11/28/2006		498
M12A	12/05/2006		323000 J+
M13	12/01/2006		25300
M29	11/17/2006		2410
M2A	12/04/2006		465000
M31A	12/06/2006		1740000 J+
M39	12/05/2006		403000 J+
M48	12/06/2006		153000
M55	12/07/2006		577000 J+
M55D	12/07/2006		587000 J+
M5A	12/07/2006		33.9 U
M76	12/04/2006		77300 J+
M7B	11/30/2006		61000
M89	12/05/2006		898000 J+
M92	11/29/2006		610
M95	12/04/2006		624000 J+
M97	11/29/2006		74500
M98	11/30/2006		21800
MC45	12/06/2006		7940 J+
PC40	12/01/2006		36800
GWSA2	11/06/2006		393
GWSA9	11/07/2006		216
GWSA10	11/07/2006		1790
GWSA14	11/08/2006		1120
GWSA15	11/08/2006		6290000

**Table 4-15**  
**Perchlorate Concentrations in Groundwater**  
**Phase A Source Area Investigation Results**  
**Tronox Facility - Henderson, Nevada**

Notes:

- J+ The result is an estimated quantity and the result may be biased high.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- ug/L Micrograms per liter.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-17**  
**Radionuclide (RAD) Activities in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Analyte Type Analytic Method Chemical Name Fraction Units	Pump rate ml/min	Turbidity (field) NTUs	Acceptance Criteria Met?	Parameters That Did Not Meet Acceptance Criteria	RAD	RAD	RAD	RAD	RAD	RAD	RAD
						EPA 903.1 Ra-226 - soluble S pci/L	EPA 903.1 Ra-226 - soluble T pci/L	EPA 904.0 Ra-228 - soluble S pci/L	EPA 904.0 Ra-228 - soluble T pci/L	HASL-300 TH MOD Th-228 - soluble S pci/L	HASL-300 TH MOD Th-228 - soluble T pci/L	HASL-300 TH MOD Th-230 - soluble S pci/L
IAR 12/01/2006	12/01/2006	nm	nm	Yes								
IAR-F	05/08/2007	nm	nm			1.13 J	0.913 J-	1.16 J-	1.39 J-			
IAR-Z	05/08/2007	nm	nm				1.67 J		1.30 B			
M100	12/04/2006	360	1.00	Yes			0.195 J-		0.294 UJ			
M100D	12/04/2006	360	1.00	Yes			0.0806 UJ		0.388 UJ			
M100-F	05/09/2007	350	1.91	Yes		0.381 J		0.982 UJ				
M100-L	05/09/2007	100	1.58	Yes			0.240 J		0.506 UJ			
M100-Z	05/09/2007	350	1.91	Yes			0.151 U		0.240 UJ			
M11	12/06/2006	150	89.5	Yes			0.162 J		0.113 UJ			
M11D	12/06/2006	150	89.5	Yes			0.237 J		0.0565 UJ			
S	Soluable metals											
M11-F	05/11/2007	150	38.1	Yes		0.308 J		1.30 JB				
M11-Z	05/11/2007	150	38.1	Yes			0.332 U		1.23 B			
M120	11/28/2006	320	1.8	Yes			0.0778 U		0.307 U			
M120-F	05/04/2007	320	0.35	Yes		0.175 U		0.731 UJ				
M120-L	05/04/2007	150	0.00	No	ORP		0.102 U		0.290 UJ			
M120-Z	05/04/2007	320	0.35	Yes			0.168 J		0.357 UJ			
M12A	12/05/2006	210	19.7	Yes			0.273 B		0.578 UJ			
M12A-F	05/11/2007	210	7.6	No	ORP	0.323 J		0.950 B				
M12A-L	05/11/2007	100	12.1	Yes			1.13 J		1.40 JB			
M12A-Z	05/11/2007	210	7.6	No	ORP		0.601 J		1.45			
M13	12/01/2006	300	32.4	Yes			0.163 J-		0.121 UJ			
M13-F	05/09/2007	300	28.5	Yes		0.175 U		0.486 UJ				
M13-L	05/09/2007	100	36.8	No	DO		0.0642 U		0.462 UJ			
M13-Z	05/09/2007	300	28.5	Yes			-0.0728 U		0.152 UJ			
M29	11/17/2006					0.603 J		0.745 J	0.602 UJ			
M2A	12/04/2006	350	49.0	Yes			0.126 UJ		0.771 JB			
M2A-F	05/09/2007	350	3.51	No	ORP	0.366 J		0.632 UJ				
M2A-L	05/09/2007	100	56.0	Yes			0.192 J		0.499 UJ			
M2A-Z	05/09/2007	350	3.51	No	ORP		0.0440 U		0.402 UJ			
M31A	12/06/2006	145	155.0	Yes			0.434 J		0.7 J-		-0.0273 U	
M31A-F	05/09/2007	150	14.7	Yes		0.572 J		0.775 J-	0.00562 U			0.0768 J
M31A-Z	05/09/2007	150	14.7	Yes			0.312 J		0.862 UJ		0.0584 U	
M39	12/05/2006	325	3.16	No	ORP		0.224 B		0.333 UJ			
M39-F	05/10/2007	325	3.16	No	ORP	0.232 J		0.788 J	0.0288 U			6.29
M39-FD	05/10/2007	100	40.8	No	ORP	0.182 J		0.336 U	0.0343 U			7.19
M39-L	05/10/2007	325	3.16	No	ORP		0.299 J		0.672 J		0.501 J	
M39-LD	05/10/2007	100	40.8	No	ORP		0.258 J		0.753 J		0.306 J	
M39-Z	05/10/2007	325	3.16	No	ORP		0.191 J		0.277 U		0.0105 U	
M39-ZD	05/10/2007	320	62.9	Yes			0.185 J		0.106 U		0.0253 U	
M48	12/06/2006	350	nm	Yes			0.235 J		0.13 UJ			
M48-F	05/10/2007	350	0.63	Yes		0.135 J		0.592 U				
M48-L	05/10/2007	100	0.00	Yes			0.135 J		0.408 U			
M48-Z	05/10/2007	350	0.63	Yes			0.116 J		0.518 U			
M55	12/07/2006	360	1.5	Yes			0.229 J		0.535 J-			
M55D	12/07/2006	360	1.5	Yes			0.247 J		0.271 UJ			
M55-F	05/08/2007	350	0.00	No	ORP	0.300 J		1.46 J-				
M55-L	05/08/2007	100	1.00	No	ORP		0.396 U		1.17 UJ			
M55-Z*	05/08/2007	350	0.00	No	ORP							
M5A	12/07/2006	200	7.0	Yes			0.546 J		1.14 J-			

**Table 4-17**  
**Radionuclide (RAD) Activities in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

	Analyte Type Analytic Method Chemical Name Fraction Units	Pump rate ml/min	Turbidity (field) NTUs	Acceptance Criteria Met?	Parameters That Did Not Meet Acceptance Criteria	RAD EPA 903.1 Ra-226 - soluble S pci/L	RAD EPA 903.1 Ra-226 - soluble T pci/L	RAD EPA 904.0 Ra-228 - soluble S pci/L	RAD EPA 904.0 Ra-228 - soluble T pci/L	RAD HASL-300 TH MOD Th-228 - soluble S pci/L	RAD HASL-300 TH MOD Th-228 - soluble T pci/L	RAD HASL-300 TH MOD Th-230 - soluble S pci/L
M5A-F	05/10/2007	200	2.31	Yes		0.507 J		0.950 J				
M5A-L	05/10/2007	100	4.11	No	DO		0.765 J		1.60			
M5A-Z	05/10/2007	200	2.31	Yes			0.566 J		1.11			
M76	12/04/2006	100	0.1	Yes			0.151 J-		0.119 UJ			
M76-F	05/09/2007	200	1.84	No	ORP	0.203 U		0.475 UJ				
M76-L	05/09/2007	100	7.06	No	ORP		0.256 U		0.409 UJ			
M76-Z	05/09/2007	200	1.84	No	ORP		0.184 U		0.543 UJ			
M7B	11/30/2006	290	16.1	No	DO		0.457 J		0.947 J-			
M7B-F	05/08/2007	300	6.1	Yes		0.808 J		1.76 J-				
M7B-L	05/08/2007	100	70	Yes			0.481 J		1.27 J-			
M7B-Z	05/08/2007	300	6.1	Yes			0.672 J		1.85 J-			
M89	12/05/2006	235	0.3	Yes			0.293 B		0.197 UJ			
M89-F	05/11/2007	225	0.00	No	ORP	0.221 J		1.65				
M89-L	05/11/2007	100	2.90	No	ORP		0.170 U		1.92			
M89-Z	05/11/2007	225	0.00	No	ORP		0.352 J		1.27 JB			
M92	11/29/2006	280	76.0	Yes			0.209 J		0.204 U			
M92-F	05/08/2007	300	3.69	No	ORP	0.0895 U		0.322 UJ		0 U		0.0127 U
M92-L	05/08/2007	100	33.7	Yes			0.118 U		0.359 UJ		0.0266 U	
M92-Z	05/08/2007	300	3.69	No	ORP		0.241 J		0.736 J-		0.00575 U	
M95	12/04/2006	480	68.8	Yes			0.57 J-		0.397 UJ			
M95-F	05/10/2007	360	2.29	No	ORP	0.282 J		0.216 U		0 U		4.79
M95-FD	05/10/2007	360	2.29	No	ORP	0.313 J		0.360 U		0.0248 U		4.36
M95-L	05/10/2007	100	23.2	No	ORP		0.296 J		0.315 U		0.0619 U	
M95-LD	05/10/2007	100	23.2	No	ORP		0.360 J		0.288 U		0.107 U	
M95-Z	05/10/2007	360	2.29	No	ORP		0.347 J		0.193 U		0 U	
M95-ZD	05/10/2007	360	2.29	No	ORP		0.416 J		0.464 J		0.0431 U	
M97	11/29/2006	380	31.7	Yes			0.522 J		0.718 J			
M97-F	05/11/2007	375	2.89	No	ORP	0.390 J		1.03 B				
M97-L	05/11/2007	100	6.51	No	ORP		0.390 J		0.882 B			
M97-Z	05/11/2007	375	2.89	No	ORP		0.380 J		0.788 B			
M98	11/30/2006	300	nm	Yes			0.43 J		0.465 J-			
MC45	12/06/2006	290	0.5	Yes			0.0802 U		0.503 UJ			
MC45-F	05/07/2007	280	0.00	No	ORP	0.142 U		0.362 UJ				
MC45-L	05/07/2007	100	0.85	No	ORP		0.254 U		0.548 UJ			
MC45-Z	05/07/2007	280	0.00	No	ORP		0.0927 U		0.783 B			
PC40	12/01/2006	420	149	Yes			0.244 J-		0.416 UJ			
PC40-F	05/07/2007	400	0.00	No	DO, ORP	0.131 U		0.783 J-				
PC40-L	05/07/2007	100	200	Yes			0.397 J		1.47 J-			
PC40-Z	05/07/2007	400	0.00	No	DO, ORP		0.222 U		0.858 B			
GWSA2	11/06/2006	na	nm				10.9 J-		5.82 J-		8.15	
GWSA9	11/07/2006	na	nm				1.45 JB		1.26 JB			
GWSA10	11/07/2006	na	nm				2.76 J-		1.96 J-			
GWSA14	11/08/2006	na	nm				6.55 J+		3.75			
GWSA15	11/08/2006	na	nm			0.742 J	3.32 J+	1.4 J	2.18			

**Table 4-17**  
**Radionuclide (RAD) Activities in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Fraction Units	RAD HASL-300 TH MOD Th-230 - soluble T pci/L	RAD HASL-300 TH MOD Th-232 - soluble S pci/L	RAD HASL-300 TH MOD Th-232 - soluble T pci/L	RAD HASL-300 U MOD Uranium-233/234 S pci/L	RAD HASL-300 U MOD Uranium-233/234 T pci/L	RAD HASL-300 U MOD Uranium-235/236 S pci/L	RAD HASL-300 U MOD Uranium-235/236 T pci/L	RAD HASL-300 U MOD Uranium-238 S pci/L	RAD HASL-300 U MOD Uranium-238 T pci/L
IAR_12/01/2006	12/01/2006								
IAR-F	05/08/2007								
IAR-Z	05/08/2007								
M100	12/04/2006								
M100D	12/04/2006								
M100-F	05/09/2007								
M100-L	05/09/2007								
M100-Z	05/09/2007								
M11	12/06/2006								
M11D	12/06/2006								
S	Soluable metals								
M11-F	05/11/2007								
M11-Z	05/11/2007								
M120	11/28/2006								
M120-F	05/04/2007								
M120-L	05/04/2007								
M120-Z	05/04/2007								
M12A	12/05/2006								
M12A-F	05/11/2007								
M12A-L	05/11/2007								
M12A-Z	05/11/2007								
M13	12/01/2006								
M13-F	05/09/2007								
M13-L	05/09/2007								
M13-Z	05/09/2007								
M29	11/17/2006								
M2A	12/04/2006								
M2A-F	05/09/2007								
M2A-L	05/09/2007								
M2A-Z	05/09/2007								
M31A	12/06/2006	1.28 J		0.0135 U		15.4		0.497 J-	9.34
M31A-F	05/09/2007		0.0110 U		14.0		0.274	8.49	
M31A-Z	05/09/2007	0.0798 U		0.0285 U		13.7		0.408	8.09
M39	12/05/2006								
M39-F	05/10/2007		0 UJ		52.0		1.52		33.8
M39-FD	05/10/2007		0.0221 UJ		54.8		1.54		35.8
M39-L	05/10/2007	7.61 J		0.304 J		50.9		1.49	33.2
M39-LD	05/10/2007	14.1 J		0.0242 UJ		52.1		1.54	34.0
M39-Z	05/10/2007	5.00 J		0.102 J		55.1		1.19	34.9
M39-ZD	05/10/2007	0.428 B		0.122 J		53.1		1.43	33.3
M48	12/06/2006								
M48-F	05/10/2007								
M48-L	05/10/2007								
M48-Z	05/10/2007								
M55	12/07/2006								
M55D	12/07/2006								
M55-F	05/08/2007								
M55-L	05/08/2007								
M55-Z*	05/08/2007								
M5A	12/07/2006								

**Table 4-17**  
**Radionuclide (RAD) Activities in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type	Analytic Method Chemical Name Fraction Units	RAD	RAD	RAD	RAD	RAD	RAD	RAD	RAD
		HASL-300 TH MOD Th-230 - soluble T pci/L	HASL-300 TH MOD Th-232 - soluble S pci/L	HASL-300 TH MOD Th-232 - soluble T pci/L	HASL-300 U MOD Uranium-233/234 S pci/L	HASL-300 U MOD Uranium-233/234 T pci/L	HASL-300 U MOD Uranium-235/236 S pci/L	HASL-300 U MOD Uranium-235/236 T pci/L	HASL-300 U MOD Uranium-238 S pci/L
M5A-F	05/10/2007								
M5A-L	05/10/2007								
M5A-Z	05/10/2007								
M76	12/04/2006								
M76-F	05/09/2007								
M76-L	05/09/2007								
M76-Z	05/09/2007								
M7B	11/30/2006								
M7B-F	05/08/2007								
M7B-L	05/08/2007								
M7B-Z	05/08/2007								
M89	12/05/2006								
M89-F	05/11/2007								
M89-L	05/11/2007								
M89-Z	05/11/2007								
M92	11/29/2006								
M92-F	05/08/2007		0 U		3.22		0.124 J		2.25
M92-L	05/08/2007	0.0998 J		0.0473 U		3.00		0.0905 J	2.06
M92-Z	05/08/2007	0.0354 B		0.0198 U		3.01		0.0466 J	1.94
M95	12/04/2006								
M95-F	05/10/2007		0.0350 UJ		29.1		1.06		20.3
M95-FD	05/10/2007		0.0560 UJ		29.2		0.936		21.9
M95-L	05/10/2007	5.53		0.379 J		29.8		0.958	22.0
M95-LD	05/10/2007	4.65		0.0882 UJ		28.5		0.698	22.6
M95-Z	05/10/2007	0.188 B		0.0188 UJ		28.1		0.680	21.2
M95-ZD	05/10/2007	0.142 B		0.0333 UJ		29.0		0.673	22.6
M97	11/29/2006								
M97-F	05/11/2007								
M97-L	05/11/2007								
M97-Z	05/11/2007								
M98	11/30/2006								
MC45	12/06/2006								
MC45-F	05/07/2007								
MC45-L	05/07/2007								
MC45-Z	05/07/2007								
PC40	12/01/2006								
PC40-F	05/07/2007								
PC40-L	05/07/2007								
PC40-Z	05/07/2007								
GWSA2	11/06/2006	13		9.14		15.5		0.348 J+	11.2
GWSA9	11/07/2006								
GWSA10	11/07/2006								
GWSA14	11/08/2006								
GWSA15	11/08/2006								

**Table 4-17**  
**Radionuclide (RAD) Activities in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- F Sample ID suffix indicating the sample was collected using low-flow pumping rates (150-480 ml/min) and field filtered.
- L Sample ID suffix indicating the sample was collected using low low-flow pumping rates 100-150 ml/min).
- Z Sample ID suffix indicating the sample was collected using low-flow pumping rates (150-480 ml/min.).
- DO Dissolved Oxygen
- T Total Metals.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity and the result may be biased high.
- J- The result is an estimated quantity and the result may be biased low.
- ml/min Milliliters per minute.
- nm Not measured.
- NTUs Nephelometric Turbidity Units.
- ORP Oxidation-reduction potential.
- S Soluable metals
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- B The result may be a false positive totally attributable to blank contamination.  
This qualifier is applied only to radiochemical results.
- JB The result may be biased high partially attributable to blank contamination.
- \* No analytical data is available for this sample due to a laboratory error.  
This qualifier is applied only to radiochemical results.
- pCi/L PicoCuries per liter.
- Blank Not analyzed.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC
Chemical Name		1,4-Dioxane	2-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthene	Acenaphthylene	Acenaphthylene	Anthracene	Anthracene	Benz(a)anthracene	Benz(a)anthracene
Analytic Method		SW 846 8270	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date											
IAR_12/01/2006	12/01/2006	10 U	10 U		10 U		10 UJ		10 U		10 U	
M100	12/04/2006	10 UJ	10 UJ		10 UJ		10 UJ		10 UJ		10 UJ	
M100D	12/04/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M11	12/06/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M11D	12/06/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M120	11/28/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M12A	12/05/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M13	12/01/2006	9.9	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U
M29	11/17/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M2A	12/04/2006	10 U	10 U		10 UJ		R		10 UJ		10 U	
M31A	12/06/2006	10 U	10 U	0.20 U	10 UJ	0.20 U	R	0.20 U	10 U	0.20 U	10 U	0.20 U
M39	12/05/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M48	12/06/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M55	12/07/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U
M55D	12/07/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U
M5A	12/07/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M76	12/04/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M7B	11/30/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M89	12/05/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M92	11/29/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M95	12/04/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M97	11/29/2006	10 U	10 U		10 U		10 U		10 U		10 U	
M98	11/30/2006	10 U	10 U		10 U		10 U		10 U		10 U	
MC45	12/06/2006	10 U	10 U		10 U		10 U		10 U		10 U	
PC40	12/01/2006	10 U	10 U		10 U		10 U		10 U		10 U	
GWSA2	11/06/2006	10 UJ	10 UJ		10 UJ		10 UJ		10 UJ		10 UJ	
GWSA9	11/07/2006	10 U	10 U		10 U		10 U		10 U		10 U	
GWSA10	11/07/2006	10 U	10 U		10 U		10 U		10 U		10 U	
GWSA14	11/08/2006	10 U	10 U		10 U		10 U		10 U		10 U	
GWSA15	11/08/2006	10 U	10 U		10 U		10 U		10 U		10 U	



**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	
		Chemical Name	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(k)fluoranthene	bis(2-Ethylhexyl)phthalate
		Analytic Method	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270
	Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
IAR_12/01/2006	12/01/2006		10 U		10 U		10 U		10 U		10 U
M100	12/04/2006		10 UJ		10 UJ		10 UJ		10 UJ		10 UJ
M100D	12/04/2006		10 U		10 U		10 U		10 U		10 U
M11	12/06/2006		10 U		10 U		10 U		10 U		10 U
M11D	12/06/2006		10 U		10 U		10 U		10 U		10 U
M120	11/28/2006		10 U		10 U		10 U		10 U		10 U
M12A	12/05/2006		10 U		10 U		10 U		10 U		10 U
M13	12/01/2006		10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U
M29	11/17/2006		10 U		10 U		10 U		10 U		<b>1.5 J</b>
M2A	12/04/2006		10 U		10 U		10 U		10 U		10 U
M31A	12/06/2006		10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U
M39	12/05/2006		10 U		10 U		10 U		10 U		10 U
M48	12/06/2006		10 U		10 U		10 U		10 U		10 U
M55	12/07/2006		10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U
M55D	12/07/2006		10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U
M5A	12/07/2006		10 U		10 U		10 U		10 U		10 U
M76	12/04/2006		10 U		10 U		10 U		10 U		10 U
M7B	11/30/2006		10 U		10 U		10 U		10 U		10 U
M89	12/05/2006		10 U		10 U		10 U		10 U		10 U
M92	11/29/2006		10 U		10 U		10 U		10 U		<b>3.2 J</b>
M95	12/04/2006		10 U		10 U		10 U		10 U		10 U
M97	11/29/2006		10 U		10 U		10 U		10 U		<b>1.5 J</b>
M98	11/30/2006		10 U		10 U		10 U		10 U		10 U
MC45	12/06/2006		10 U		10 U		10 U		10 U		10 U
PC40	12/01/2006		10 U		10 U		10 U		10 U		10 U
GWSA2	11/06/2006		10 UJ		10 UJ		10 UJ		10 UJ		<b>17 J</b>
GWSA9	11/07/2006		10 U		10 U		10 U		10 U		<b>1.4 J</b>
GWSA10	11/07/2006		10 U		10 U		10 U		10 U		10 U
GWSA14	11/08/2006		10 U		10 U		10 U		10 U		10 U
GWSA15	11/08/2006		10 U		10 U		10 U		10 U		<b>1.1 J</b>

**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC
Chemical Name		Butyl benzyl phthalate	Chrysene	Chrysene	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate	Fluoranthene
Analytic Method		SW 846 8270	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270	SW 846 8270	SW 846 8270	SW 846 8270
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date										
IAR_12/01/2006	12/01/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M100	12/04/2006	10 UJ	10 UJ		10 UJ		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
M100D	12/04/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M11	12/06/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M11D	12/06/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M120	11/28/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M12A	12/05/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M13	12/01/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	10 U	10 U	10 U	10 U
M29	11/17/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M2A	12/04/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M31A	12/06/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	10 U	10 U	10 U	10 U
M39	12/05/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M48	12/06/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M55	12/07/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	10 U	10 U	10 U	10 U
M55D	12/07/2006	10 U	10 U	0.20 U	10 U	0.20 U	10 U	10 U	10 U	10 U	10 U
M5A	12/07/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M76	12/04/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M7B	11/30/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M89	12/05/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M92	11/29/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M95	12/04/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M97	11/29/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
M98	11/30/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
MC45	12/06/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
PC40	12/01/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
GWSA2	11/06/2006	10 UJ	10 UJ		10 UJ		10 UJ	10 UJ	<b>1.0 J</b>	10 UJ	10 UJ
GWSA9	11/07/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
GWSA10	11/07/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
GWSA14	11/08/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U
GWSA15	11/08/2006	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U

**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC
Chemical Name		Fluoranthene	Fluorene	Fluorene	Hexachlorobenzene	Hexachlorobenzene	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene	Naphthalene	Naphthalene	Naphthalene
Analytic Method		SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8260	SW 846 8270	SW 846 8270 SIM
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date										
IAR_12/01/2006	12/01/2006		10 U		10 U		10 U		5.0 U	10 U	
M100	12/04/2006		10 UJ		10 UJ		10 UJ		5.0 U	10 UJ	
M100D	12/04/2006		10 U		10 U		10 U		5.0 U	10 U	
M11	12/06/2006		10 U		10 U		10 UJ		5.0 U	10 UJ	
M11D	12/06/2006		10 U		10 U		10 UJ		5.0 U	10 UJ	
M120	11/28/2006		10 U		10 U		10 U		5.0 U	10 U	
M12A	12/05/2006		10 U		10 U		10 U		5.0 U	10 U	
M13	12/01/2006	0.20 U	10 U	0.20 U	10 U	0.20 U	10 U	0.20 U	5.0 U	10 U	0.20 U
M29	11/17/2006		10 U		10 U		10 U		5.0 U	10 U	
M2A	12/04/2006		10 U		10 U		10 U		5.0 U	10 U	
M31A	12/06/2006	0.23 U	10 U	0.20 U	10 U	0.20 U	10 UJ	0.20 U	5.0 U	10 UJ	0.20 U
M39	12/05/2006		10 U		10 U		10 U		5.0 U	10 U	
M48	12/06/2006		10 U		10 U		10 UJ		5.0 U	10 UJ	
M55	12/07/2006	0.23 U	10 U	0.20 U	10 U	0.20 U	10 UJ	0.20 U	5.0 U	10 UJ	0.20 U
M55D	12/07/2006	0.26 U	10 U	0.20 U	10 U	0.20 U	10 UJ	0.20 U	5.0 U	10 UJ	0.20 U
M5A	12/07/2006		10 U		10 U		10 UJ		5.0 U	10 UJ	
M76	12/04/2006		10 U		10 U		10 U		5.0 U	10 U	
M7B	11/30/2006		10 U		10 U		10 U		5.0 U	10 U	
M89	12/05/2006		10 U		10 U		10 U		5.0 U	10 U	
M92	11/29/2006		10 U		10 U		10 U		5.0 U	10 U	
M95	12/04/2006		10 U		10 U		10 U		5.0 U	10 U	
M97	11/29/2006		10 U		10 U		10 U		5.0 U	10 U	
M98	11/30/2006		10 U		10 U		10 U		5.0 U	10 U	
MC45	12/06/2006		10 U		10 U		10 UJ		5.0 U	10 UJ	
PC40	12/01/2006		10 U		10 U		10 U		5.0 U	10 U	
GWSA2	11/06/2006		10 UJ		10 UJ		10 UJ		5.0 U	10 UJ	
GWSA9	11/07/2006		10 U		10 U		10 U		5.0 U	10 U	
GWSA10	11/07/2006		10 U		10 U		10 U		5.0 U	10 U	
GWSA14	11/08/2006		10 U		10 U		10 U		5.0 U	<b>5.2 J</b>	
GWSA15	11/08/2006		10 U		10 U		10 U		5.0 U	10 U	

**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		SVOC	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC
Chemical Name:		Nitrobenzene	Octachlorostyrene	Phenanthrene	Phenanthrene	Pyrene	Pyrene	Pyridine
Analytic Method		SW 846 8270	SW 846 8270	SW 846 8270	SW 846 8270 SIM	SW 846 8270	SW 846 8270 SIM	SW 846 8270
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date							
IAR_12/01/2006	12/01/2006	10 U	10 U	10 U		10 U		20 U
M100	12/04/2006	10 UJ	10 UJ	10 UJ		10 UJ		20 UJ
M100D	12/04/2006	10 U	10 U	10 U		10 U		20 UJ
M11	12/06/2006	10 U	10 U	10 U		10 U		20 U
M11D	12/06/2006	10 U	10 U	10 U		10 U		20 U
M120	11/28/2006	10 U	10 U	10 U		10 U		20 U
M12A	12/05/2006	10 U	10 U	10 U		10 U		20 U
M13	12/01/2006	10 U	10 U	10 U	0.20 U	10 U	0.20 U	20 U
M29	11/17/2006	10 U	10 U	10 U		10 U		20 U
M2A	12/04/2006	10 U	10 U	10 U		10 U		20 UJ
M31A	12/06/2006	10 U	10 U	10 U	0.20 U	10 U	0.20 U	20 U
M39	12/05/2006	10 U	10 U	10 U		10 U		20 U
M48	12/06/2006	10 U	10 U	10 U		10 U		20 U
M55	12/07/2006	10 U	10 U	10 U	0.20 U	10 U	0.20 U	20 U
M55D	12/07/2006	10 U	10 U	10 U	0.20 U	10 U	0.20 U	20 U
M5A	12/07/2006	10 U	10 U	10 U		10 U		20 U
M76	12/04/2006	10 U	10 U	10 U		10 U		20 UJ
M7B	11/30/2006	10 U	10 U	10 U		10 U		20 U
M89	12/05/2006	10 U	10 U	10 U		10 U		20 U
M92	11/29/2006	10 U	10 U	10 U		10 U		20 U
M95	12/04/2006	10 U	10 U	10 U		10 U		20 UJ
M97	11/29/2006	10 U	10 U	10 U		10 U		20 U
M98	11/30/2006	10 U	10 U	10 U		10 U		20 U
MC45	12/06/2006	10 U	10 U	10 U		10 U		20 U
PC40	12/01/2006	10 U	10 U	10 U		10 U		20 U
GWSA2	11/06/2006	10 UJ	10 UJ	10 UJ		10 UJ		20 UJ
GWSA9	11/07/2006	10 U	10 U	10 U		10 U		20 U
GWSA10	11/07/2006	10 U	10 U	10 U		10 U		20 U
GWSA14	11/08/2006	10 U	10 U	10 U		10 U		20 U
GWSA15	11/08/2006	10 U	10 U	10 U		10 U		20 U

**Table 4-19**  
**Semi-Volatile Organic Compound (SVOC) Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- R The result was rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
- ug/L Micrograms per liter.
- Blank Not analyzed.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-21**  
**Total Petroleum Hydrocarbons (TPH) and Fuel Alcohols Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Analytic Method Chemical Name Units		Fuel Alcohol SW 846 8015B FA Ethanol mg/L	Fuel Alcohol SW 846 8015B FA Ethylene glycol mg/L	Fuel Alcohol SW 846 8015B FA Methanol mg/L	TPH SW 846 8015B DRO Oil Range Organics mg/L	TPH SW 846 8015B DRO Total petroleum hydrocarbon-diesel mg/L	TPH SW 846 8015B GRO Total petroleum hydrocarbon-gasoline mg/L
Sample ID	Sample Date						
IAR_12/01/2006	12/01/2006	5.0 U	10 UJ	5.0 U			
M120	11/28/2006				0.50 U	0.50 U	0.10 U
M12A	12/05/2006	10 U	10 U	10 U			
M29	11/17/2006				0.50 U	0.50 U	0.10 U
M92	11/29/2006	5.0 U	10 UJ	5.0 U			
M95	12/04/2006	10 U	10 U	10 U			
PC40	12/01/2006	5.0 U	10 UJ	5.0 U			
GWSA2	11/06/2006				0.50 UJ	0.50 UJ	0.10 U
GWSA9	11/07/2006	<b>13 J</b>	10 UJ	5.0 UJ			

**Table 4-21**  
**Total Petroleum Hydrocarbons and Fuel Alcohols Concentrations in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- mg/L Milligrams per liter.
- Blank Not analyzed.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Sample ID	Sample Date	Analyte Type	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
		Chemical Name	Naphthalene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropene
		Analytic Method	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260
		Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
IAR_12/01/2006	12/01/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M100	12/04/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M100D	12/04/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M11	12/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M11D	12/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M120	11/28/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M12A	12/05/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M13	12/01/2006		5.0 U	5.0 U	1.6 J	5.0 U	5.0 U	2.6 J	2.7 J	5.0 U
M29	11/17/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M2A	12/04/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.83 J	5.0 U
M31A	12/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M39	12/05/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M48	12/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M55	12/07/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M55D	12/07/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M5A	12/07/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M76	12/04/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M7B	11/30/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.1 J	5.0 U	5.0 U
M89	12/05/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M92	11/29/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	14	5.0 U
M95	12/04/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M97	11/29/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.4	5.0 U
M98	11/30/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MC45	12/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.6 J
PC40	12/01/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20	5.0 U	1.4 J
GWSA2	11/06/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA9	11/07/2006		500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
GWSA10	11/07/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA14	11/08/2006		500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
GWSA15	11/08/2006		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U



**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Chemical Name Analytic Method		VOC 1,2,3-Trichloropropane SW 846 8260 ug/L	VOC 1,2,4-Trichlorobenzene SW 846 8260 ug/L	VOC 1,2,4-Trimethylbenzene SW 846 8260 ug/L	VOC 1,2-Dibromo-3-chloropropane SW 846 8260 ug/L	VOC 1,2-Dichlorobenzene SW 846 8260 ug/L	VOC 1,2-Dichloroethane SW 846 8260 ug/L	VOC 1,2-Dichloropropane SW 846 8260 ug/L	VOC 1,3,5-Trimethylbenzene SW 846 8260 ug/L
Sample ID	Sample Date								
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	0.49 J	5.0 U	5.0 U	5.0 U
M100	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	0.48 J	5.0 U	5.0 U	5.0 U
M100D	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	0.60 J	5.0 U	5.0 U	5.0 U
M11	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M11D	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M120	11/28/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M12A	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M13	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M29	11/17/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M2A	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M31A	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M39	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M48	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	1.3 J	5.0 U	5.0 U	5.0 U
M55	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	0.61 J+	5.0 UJ	5.0 U	5.0 U
M55D	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	0.55 J	5.0 U	5.0 U	5.0 U
M5A	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	0.72 J+	5.0 UJ	5.0 U	5.0 U
M76	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M7B	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M89	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M92	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M95	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 UJ	2.0 J	5.0 U	5.0 U	5.0 U
M97	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M98	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MC45	12/06/2006	5.0 U	7.1	5.0 U	5.0 U	5.6	5.0 U	5.0 U	5.0 U
PC40	12/01/2006	5.0 U	5.7	5.0 U	5.0 U	7.1	1.3 J	5.0 U	5.0 U
GWSA2	11/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA9	11/07/2006	500 U	500 U	500 U	500 U	720	500 U	500 U	500 U
GWSA10	11/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	0.28 J	5.0 U	5.0 U	5.0 U
GWSA14	11/08/2006	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
GWSA15	11/08/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		VOC	VOC	VOC	VOC	VOC	VOC	VOC
Chemical Name		1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone
Analytic Method		SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date							
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M100	12/04/2006	<b>0.60 J</b>	5.0 U	<b>1.5 J</b>	5.0 U	10 U	5.0 U	10 U
M100D	12/04/2006	<b>0.73 J</b>	5.0 U	<b>0.72 J</b>	5.0 U	10 U	5.0 U	10 U
M11	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M11D	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M120	11/28/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M12A	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 U
M13	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M29	11/17/2006	5.0 U	5.0 U	<b>0.92 J</b>	5.0 U	10 U	5.0 U	10 UJ
M2A	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 U
M31A	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M39	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 U
M48	12/06/2006	<b>1.4 J</b>	5.0 U	<b>0.80 J</b>	5.0 U	10 U	5.0 U	10 UJ
M55	12/07/2006	5.0 U	5.0 U	<b>0.68 J+</b>	5.0 U	10 U	5.0 U	10 U
M55D	12/07/2006	5.0 U	5.0 U	<b>0.71 J</b>	5.0 U	10 U	5.0 U	10 UJ
M5A	12/07/2006	5.0 U	5.0 U	<b>1.2 J+</b>	5.0 U	10 U	5.0 U	10 U
M76	12/04/2006	5.0 U	5.0 U	<b>0.86 J</b>	5.0 U	10 U	5.0 U	10 U
M7B	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M89	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 U
M92	11/29/2006	5.0 U	5.0 U	<b>0.76 J</b>	5.0 U	10 U	5.0 U	10 UJ
M95	12/04/2006	<b>2.5 J</b>	5.0 U	<b>1.6 J</b>	5.0 U	10 U	5.0 U	10 U
M97	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
M98	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
MC45	12/06/2006	5.0 U	5.0 U	<b>8.3</b>	5.0 U	10 U	5.0 U	10 UJ
PC40	12/01/2006	<b>2.8 J</b>	5.0 U	<b>5.8</b>	5.0 U	10 U	5.0 U	10 UJ
GWSA2	11/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ
GWSA9	11/07/2006	500 U	500 U	<b>1600</b>	500 U	1000 U	500 U	1000 UJ
GWSA10	11/07/2006	5.0 U	5.0 U	<b>0.50 J</b>	5.0 U	10 U	5.0 U	10 UJ
GWSA14	11/08/2006	500 U	500 U	500 U	500 U	1000 U	500 U	1000 UJ
GWSA15	11/08/2006	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 UJ

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Chemical Name Analytic Method Units		VOC 2-Methoxy-2-methyl-butane SW 846 8260 ug/L	VOC 4-Chlorotoluene SW 846 8260 ug/L	VOC 4-Isopropyltoluene SW 846 8260 ug/L	VOC 4-Methyl-2-pentanone SW 846 8260 ug/L	VOC Acetone SW 846 8260 ug/L	VOC Benzene SW 846 8260 ug/L	VOC Bromobenzene SW 846 8260 ug/L	VOC Bromochloromethane SW 846 8260 ug/L
Sample ID	Sample Date								
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M100	12/04/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M100D	12/04/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M11	12/06/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M11D	12/06/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M120	11/28/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M12A	12/05/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M13	12/01/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M29	11/17/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M2A	12/04/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 UJ	5.0 U	5.0 U	5.0 U
M31A	12/06/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M39	12/05/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M48	12/06/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M55	12/07/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 UJ	5.0 U	5.0 U	5.0 U
M55D	12/07/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	5.0 U	0.38 J	5.0 U
M5A	12/07/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 UJ	0.64 J+	5.0 U	5.0 U
M76	12/04/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M7B	11/30/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M89	12/05/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M92	11/29/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M95	12/04/2006	5.0 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U
M97	11/29/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
M98	11/30/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
MC45	12/06/2006	5.0 UJ	5.0 U	5.0 U	10 UJ	10 U	0.22 J	5.0 U	5.0 U
PC40	12/01/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
GWSA2	11/06/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U
GWSA9	11/07/2006	500 U	500 U	500 U	1000 U	1000 U	19000	500 U	500 U
GWSA10	11/07/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	0.40 J	5.0 U	5.0 U
GWSA14	11/08/2006	500 U	500 U	500 U	1000 U	1000 U	4800	500 U	500 U
GWSA15	11/08/2006	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
Chemical Name		Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane
Analytic Method		SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260	SW 846 8260
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Sample ID	Sample Date								
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	<b>0.92 J</b>	5.0 U	5.0 U	5.0 UJ	<b>21</b>	<b>2.7 J</b>
M100	12/04/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 U	<b>36</b>	5.0 U
M100D	12/04/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 U	<b>38</b>	5.0 U
M11	12/06/2006	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	<b>130</b>	5.0 U
M11D	12/06/2006	5.0 U	<b>4.8 J</b>	10 U	5.0 U	5.0 U	5.0 U	<b>130</b>	5.0 U
M120	11/28/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>1.1 J</b>	5.0 UJ
M12A	12/05/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 U	<b>1600 J+</b>	5.0 U
M13	12/01/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>40</b>	5.0 UJ
M29	11/17/2006	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	<b>4.1 J</b>	5.0 UJ
M2A	12/04/2006	5.0 U	5.0 U	10 UJ	<b>1.2 J</b>	5.0 U	5.0 U	<b>1300 J+</b>	5.0 U
M31A	12/06/2006	5.0 U	<b>4.8 J</b>	10 U	5.0 U	5.0 U	5.0 U	<b>930 J+</b>	5.0 U
M39	12/05/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 U	<b>820 J+</b>	5.0 U
M48	12/06/2006	5.0 U	5.0 U	10 U	<b>1.4 J</b>	5.0 U	5.0 U	<b>99 J</b>	5.0 U
M55	12/07/2006	5.0 U	<b>4.4 J+</b>	10 UJ	5.0 U	5.0 U	5.0 U	<b>690</b>	5.0 U
M55D	12/07/2006	<b>0.43 J</b>	<b>12 J</b>	10 U	5.0 U	5.0 U	5.0 U	<b>660 J+</b>	5.0 U
M5A	12/07/2006	5.0 U	5.0 U	10 UJ	5.0 U	<b>100 J+</b>	5.0 U	5.0 U	5.0 U
M76	12/04/2006	5.0 U	5.0 U	10 UJ	<b>1.0 J</b>	5.0 U	5.0 U	<b>290 J+</b>	5.0 U
M7B	11/30/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>2.3 J</b>	5.0 UJ
M89	12/05/2006	5.0 U	<b>3.4 J</b>	10 UJ	<b>1.3 J</b>	5.0 U	5.0 U	<b>1700 J+</b>	5.0 U
M92	11/29/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>30</b>	5.0 UJ
M95	12/04/2006	5.0 U	<b>1.9 J</b>	10 UJ	<b>6.1</b>	5.0 U	5.0 U	<b>350 J+</b>	5.0 U
M97	11/29/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>12</b>	5.0 UJ
M98	11/30/2006	5.0 U	5.0 U	10 UJ	<b>9.6 J+</b>	5.0 U	5.0 UJ	<b>810 J+</b>	5.0 UJ
MC45	12/06/2006	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	<b>3.0 J</b>	5.0 U
PC40	12/01/2006	5.0 U	5.0 U	10 UJ	5.0 U	5.0 U	5.0 UJ	<b>4.0 J</b>	5.0 UJ
GWSA2	11/06/2006	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 UJ
GWSA9	11/07/2006	500 U	500 U	1000 U	<b>560</b>	<b>44000</b>	500 UJ	<b>20000</b>	500 UJ
GWSA10	11/07/2006	5.0 U	5.0 U	10 U	<b>5.7</b>	<b>2.5 J</b>	5.0 UJ	<b>300</b>	<b>0.77 J</b>
GWSA14	11/08/2006	500 U	500 U	1000 U	500 U	<b>13000</b>	500 UJ	<b>19000</b>	500 UJ
GWSA15	11/08/2006	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	<b>41</b>	5.0 UJ

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Chemical Name Analytic Method Units		VOC cis-1,2-Dichloroethene SW 846 8260 ug/L	VOC cis-1,3-Dichloropropene SW 846 8260 ug/L	VOC Dibromochloromethane SW 846 8260 ug/L	VOC Dibromomethane SW 846 8260 ug/L	VOC Dichlorodifluoromethane SW 846 8260 ug/L	VOC Ethyl t-butyl ether SW 846 8260 ug/L	VOC Ethylbenzene SW 846 8260 ug/L	VOC Ethylene dibromide SW 846 8260 ug/L
Sample ID	Sample Date								
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M100	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M100D	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M11	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
M11D	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
M120	11/28/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M12A	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M13	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M29	11/17/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M2A	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M31A	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
M39	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M48	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
M55	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M55D	12/07/2006	5.0 U	5.0 U	0.50 J	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
M5A	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M76	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M7B	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M89	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M92	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M95	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M97	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
M98	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
MC45	12/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
PC40	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
GWSA2	11/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
GWSA9	11/07/2006	500 U	500 U	500 U	500 U	500 UJ	500 U	500 U	500 U
GWSA10	11/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
GWSA14	11/08/2006	500 U	500 U	500 U	500 U	500 UJ	500 U	500 U	500 U
GWSA15	11/08/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Chemical Name Analytic Method Units		VOC Hexachlorobutadiene SW 846 8260 ug/L	VOC isopropyl ether SW 846 8260 ug/L	VOC Isopropylbenzene SW 846 8260 ug/L	VOC Methyl tert butyl ether SW 846 8260 ug/L	VOC Methylene chloride SW 846 8260 ug/L	VOC N-Butylbenzene SW 846 8260 ug/L	VOC N-Propylbenzene SW 846 8260 ug/L	VOC sec-Butylbenzene SW 846 8260 ug/L	VOC Styrene SW 846 8260 ug/L
Sample ID	Sample Date									
IAR_12/01/2006	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	R
M100	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M100D	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M11	12/06/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M11D	12/06/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M120	11/28/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M12A	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M13	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M29	11/17/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M2A	12/04/2006	5.0 U	5.0 U	5.0 U	0.67 J	5.0 U	5.0 U	5.0 U	5.0 U	R
M31A	12/06/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M39	12/05/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M48	12/06/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ
M55	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M55D	12/07/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
M5A	12/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M76	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M7B	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
M89	12/05/2006	5.0 U	5.0 U	5.0 U	0.94 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M92	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M95	12/04/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M97	11/29/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
M98	11/30/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
MC45	12/06/2006	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
PC40	12/01/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA2	11/06/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA9	11/07/2006	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
GWSA10	11/07/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
GWSA14	11/08/2006	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
GWSA15	11/08/2006	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Analyte Type Chemical Name Analytic Method Units		VOC t-Butyl alcohol SW 846 8260 ug/L	VOC tert-Butylbenzene SW 846 8260 ug/L	VOC Tetrachloroethene SW 846 8260 ug/L	VOC Toluene SW 846 8260 ug/L	VOC trans-1,2-Dichloroethylene SW 846 8260 ug/L	VOC trans-1,3-Dichloropropene SW 846 8260 ug/L	VOC Trichloroethene SW 846 8260 ug/L	VOC Trichlorofluoromethane SW 846 8260 ug/L	VOC Vinylchloride SW 846 8260 ug/L	VOC Xylene (Total) SW 846 8260 ug/L
Sample ID	Sample Date										
IAR 12/01/2006	12/01/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	10 U
M100	12/04/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M100D	12/04/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M11	12/06/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ
M11D	12/06/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ
M120	11/28/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	10 U
M12A	12/05/2006	10 UJ	5.0 U	<b>0.93 J</b>	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M13	12/01/2006	10 UJ	5.0 U	<b>0.44 J</b>	5.0 U	5.0 U	5.0 U	<b>33</b>	5.0 UJ	5.0 UJ	10 U
M29	11/17/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	10 U
M2A	12/04/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	<b>25</b>	5.0 U	5.0 U	10 U
M31A	12/06/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ
M39	12/05/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M48	12/06/2006	10 UJ	5.0 U	<b>0.65 J</b>	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ
M55	12/07/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	<b>12 J+</b>	5.0 U	5.0 U	10 U
M55D	12/07/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	<b>9.9</b>	5.0 U	5.0 U	10 UJ
M5A	12/07/2006	10.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M76	12/04/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M7B	11/30/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	10 U
M89	12/05/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	<b>12</b>	5.0 U	5.0 U	10 U
M92	11/29/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	<b>3.8 J</b>	5.0 UJ	5.0 UJ	10 U
M95	12/04/2006	10 UJ	5.0 U	<b>1.3 J</b>	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
M97	11/29/2006	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	10 U
M98	11/30/2006	10 UJ	5.0 U	<b>0.54 J+</b>	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	10 U
MC45	12/06/2006	10 UJ	5.0 U	<b>0.55 J</b>	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ
PC40	12/01/2006	10 UJ	5.0 U	<b>6.2</b>	5.0 U	5.0 U	5.0 U	<b>4.5 J</b>	5.0 UJ	5.0 UJ	10 U
GWSA2	11/06/2006	10 UJ	5.0 U	5.0 U	5 U	5.0 U	5.0 U	<b>8.6</b>	5.0 UJ	5.0 U	10 U
GWSA9	11/07/2006	1000 UJ	500 U	<b>44 J</b>	500 U	500 U	500 U	500 U	<b>220 J</b>	500 U	1000 U
GWSA10	11/07/2006	10 UJ	5.0 U	5.0 U	<b>19</b>	5.0 U	5.0 U	<b>2.1 J</b>	5.0 UJ	5.0 U	10 U
GWSA14	11/08/2006	1000 UJ	500 U	500 U	500 U	500 U	500 U	500 U	500 UJ	500 U	1000 U
GWSA15	11/08/2006	10 UJ	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	10 U

**Table 4-23**  
**Volatile Organic Compounds (VOC) in Groundwater**  
Phase A Source Area Investigation Results  
Tronox Facility - Henderson, Nevada

Notes:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity and the result may be biased high.
- UJ The analyte was not detected above the laboratory sample quantitation limit and the limit is approximate.
- U The analyte was analyzed for, but was not detected above the laboratory sample quantitation limit.
- R The result was rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
- ug/L Micrograms per liter.
- Bold** Bold values are constituents detected above the laboratory sample quantitation limit.
- Gray Grayed out values are non-detected values with the laboratory sample quantitation limits shown.