



environmental management, inc.

MEMORANDUM

From: Deni Chambers, Principal-in-Charge
Derrick Willis, Project Manager

Date: July 9, 2010

To: Mr. Matt Paque, Tronox

RE: Manganese Tailings Pile Confirmation Sampling

The Nevada Division of Environmental Protection (NDEP) has requested that confirmation sampling be performed at the location of the former manganese tailings pile at the Tronox facility in Henderson, Nevada (the Site) following removal of the manganese tailings. Sampling will be conducted following procedures set forth in Northgate's Pre-Confirmation Sampling Work Plan¹ and the BMI standard operating procedures (SOPs)².

The objective of the sampling program is to confirm that manganese tailings are removed and that associated chemicals (manganese, cobalt and arsenic) are below the following screening levels. NDEP's basic comparison levels (BCLs) for manganese and cobalt are 13,700 and 331 milligrams per kilogram (mg/kg), respectively, and background concentration for arsenic is 7.2 mg/kg.

Soil samples will be collected using a slide-hammer sampler from 21 locations at a depth of 0-6 inches below ground surface (bgs) as shown on Figure 1. Nine of the sample locations will be placed in a grid pattern across the main portion of the manganese tailings area; four will be located along the eastern property boundary; two will be located along the west boundary of the tailings area; four will be located along the north boundary of the tailings area; and one each will be located beneath polygons Remediation Zones (RZ) -C-46 and -C-47 (northeast corner).

Additional samples will be collected from 6-12 inches bgs at each sampling location; these samples will be placed on hold pending receipt of analytical results of the shallow samples.

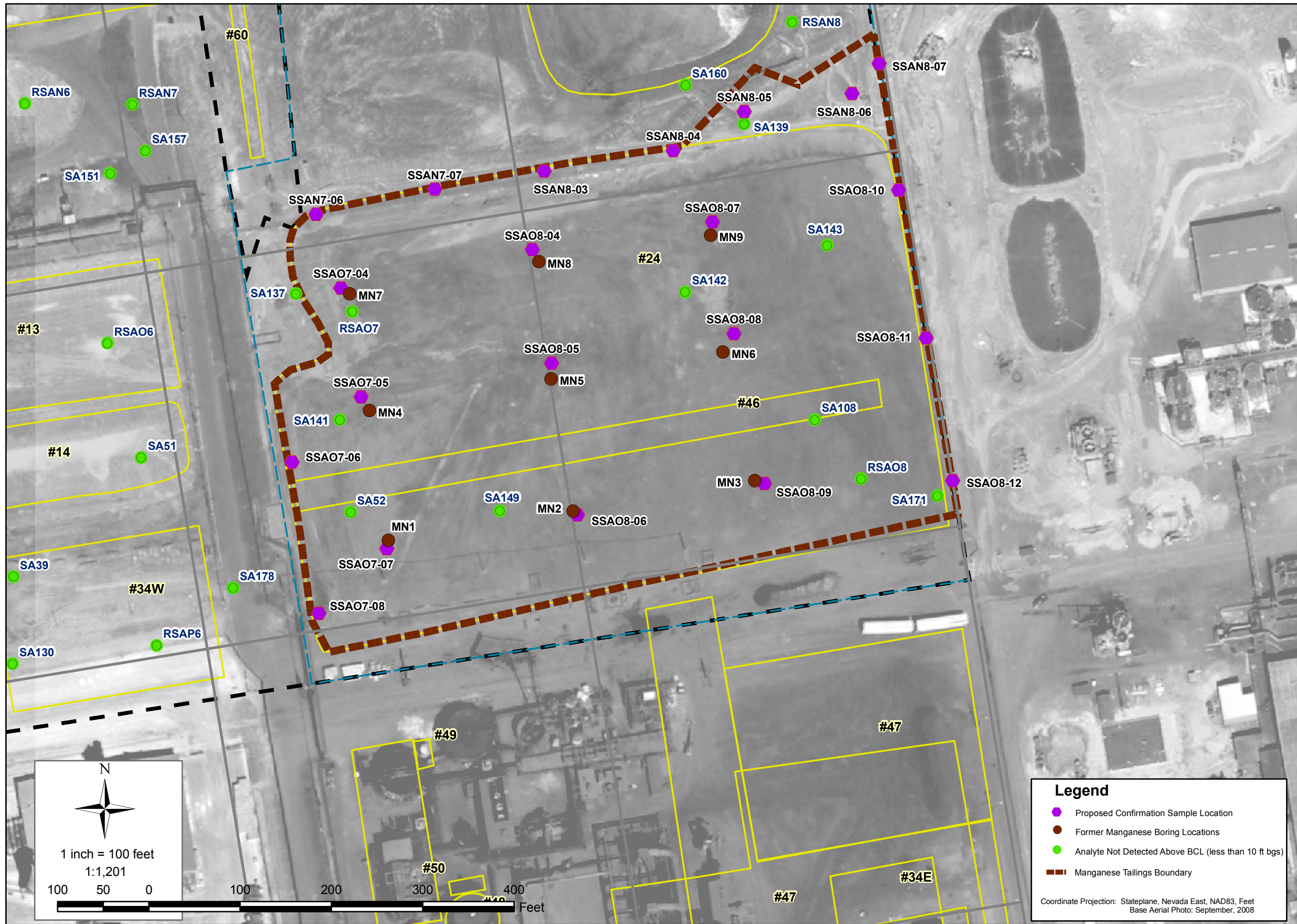
Results will be presented in the Human Health Risk Assessment and Closure report for RZ-C.

If you have any questions about this sampling program, please contact us.

¹ Northgate. 2010. Final Revised Pre-Confirmation Work Plan, Remediation Zones RZ-A Through RZ-E, Phase B Investigation, Tronox Facility, Henderson, Nevada. March 25.

² ERM-West, Inc. 2009. BRC Field Sampling and Standard Operating Procedures, BMI Common Areas, Clark County, Nevada. December.

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Legend

- Proposed Confirmation Sample Location
- Former Manganese Boring Locations
- Analyte Not Detected Above BCL (less than 10 ft bgs)
- Manganese Tailings Boundary

Coordinate Projection: Stateplane, Nevada East, NAD83, Feet
Base Aerial Photo: September, 2008

northgate
environmental management, inc.

TRONOX
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DESIGNED BY:	NO:	REVISIONS:	DATE:		BY:	
			DESCRIPTION:	NO:	DATE:	BY:
CW						
DRAWN BY:						
KH						
CHECKED BY:						
CW						
APPROVED BY:						
DW						

**MANGANESE TAILINGS
PROPOSED SAMPLE LOCATIONS**

Tronox LLC
Henderson, Nevada

SCALE: 1 in = 100 ft
DATE: 07/26/10
PROJECT NUMBER: 2027.08 T10

FIGURE NUMBER: 1
SHEET NUMBER: 1

July 20, 2010

Matt Paque
Tronox LLC
PO BOX 268859
Oklahoma City, OK 73134

Re: **Tronox LLC (TRX)**
NDEP Facility ID #H-000539
Nevada Division of Environmental Protection (NDEP) Response to:
TRX Letter Submittal RE: Manganese Tailings Pile Confirmation Sampling
Dated: July 9, 2010

Dear Mr. Paque,

The NDEP has received and reviewed TRX's above-identified Deliverable and provides comments in Attachment A. A revised Deliverable should be submitted **by July 27, 2010** based on the comments found in Attachment A. TRX should additionally provide an annotated response-to-comments letter as part of the revised Deliverable.

Please contact the undersigned with any questions at sharbour@ndep.nv.gov or 775-687-9332.

Sincerely,

Shannon Harbour, P.E.
Staff Engineer III
Bureau of Corrective Actions
Special Projects Branch
NDEP-Carson City Office
Fax: 775-687-8335

SH:sh

EC: Jim Najima, Bureau of Corrective Actions, NDEP
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Mike Skromyda, Tronox LLC
Michael J. Foster, Tronox LLC
Keith Bailey, Environmental Answers LLC
Susan Crowley, Tronox LLC (Contractor)
Deni Chambers, Northgate Environmental
Brian Rakvica, McGinley and Associates
Barry Conaty, Holland & Hart LLP
Brenda Pohlmann, City of Henderson

Mitch Kaplan, U.S. Environmental Protection Agency, Region 9
Ebrahim Juma, Planning Manager, Air Quality and Environmental Management
Joe McGinley, McGinley & Associates
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Rick Kellogg, BRC
Mark Paris, Landwell
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Jeff Gibson, AMPAC
Larry Cummings, AMPAC
Teri Copeland, Neptune and Company, Inc.
Kurt Fehling, The Fehling Group, LLC
Joanne Otani

CC: Ebrahim Juma, Planning Manager, Air Quality and Environmental Management
Susan Crowley, C/O Tronox LLC, PO Box 55, Henderson, NV 89009
Lee Erickson, Stauffer Management Company

Attachment A

1. TRX should provide a brief background section discussing a CSM-based description of the manganese tailings pile area including history and a list of wastes and potential contaminants that were placed or occurred in this area. Please note that the liquids discovered during the excavation should be discussed for potential impact and targeted sampling.
2. During the Phase B Source Area Investigation, TRX collected samples from the surface (0.0-0.5 fbgs), 5 fbgs, and 10 fbgs; however, TRX is only proposing to sample at the surface and 0.5-1.0 fbgs interval. TRX should conduct the sampling of this area in a manner consistent with previous sampling that will be used in a Health Risk Assessment for this Remediation Zone.
3. TRX should justify the elimination of chemical analytical suites from the Phase B broad suite analysis using CSM-based discussion. All chemical suites used in Phase B should be sampled unless otherwise approved by the NDEP.
4. TRX should acknowledge and discuss the former cooling tower that is located in the manganese tailings area and how this area will be characterized.
5. TRX should also propose sampling on the southern boundary of the manganese tailings area.
6. Figure 1, NDEP provides the following comments:
 - a. Please clarify what the Manganese Boring Locations are and if samples were collected, please present the results.
 - b. Please provide the Phase B results in this Figure.



environmental management, inc.

From: Deni Chambers, Principal-in-Charge
Derrick Willis, Project Manager

Date: July 26, 2010

To: Shannon Harbour, PE
Nevada Division of Environmental Protection

RE: Response to Nevada Division of Environmental Protection's July 20, 2010
Comments on *TRX Letter Submittal RE: Manganese Tailings Pile Confirmation
Sampling*, dated July 9, 2010

Response to Comments

Northgate Environmental Management, Inc. (Northgate) submits this Response to Comments on the *TRX Letter Submittal RE: Manganese Tailings Pile Confirmation Sampling* on behalf of Tronox LLC (Northgate, July 9, 2010). Tronox has reviewed the following Nevada Division of Environmental Protection (NDEP) comments and has revised the submittal accordingly.

1. *TRX should provide a brief background section discussing a CSM-based description of the manganese tailings pile area including history and a list of wastes and potential contaminants that were placed or occurred in this area. Please note that the liquids discovered during the excavation should be discussed for potential impact and targeted sampling.*

Response: This revised document includes background information regarding the history of the manganese (Mn) tailings pile.

2. *During the Phase B Source Area Investigation, TRX collected samples from the surface (0.0-0.5 fbgs), 5 fbgs, and 10 fbgs; however, TRX is only proposing to sample at the surface and 0.5-1.0 fbgs interval. TRX should conduct the sampling of this area in a manner consistent with previous sampling that will be used in a Health Risk Assessment for this Remediation Zone.*

Response: As discussed in the July 23, 2010 NDEP-Tronox-Northgate Conference Call, eight borings were previously advanced in the Mn tailings area as part of the Phase B investigation, and deeper soil samples were collected from below the interface between the Mn tailings and native soil that characterize the soil as clean. These clean boring locations are shown on Figure 1. Soil samples collected from these borings were analyzed for the Phase B suite of analyses; therefore, analyzing the Mn tailings confirmation samples would be repetitious. The shallow surface samples proposed are to confirm that Mn tailings were successfully removed.



3. *TRX should justify the elimination of chemical analytical suites from the Phase B broad suite analysis using CSM-based discussion. All chemical suites used in Phase B should be sampled unless otherwise approved by the NDEP.*

Response: Please see Response to Comment 2.

4. *TRX should acknowledge and discuss the former cooling tower that is located in the manganese tailings area and how this area will be characterized.*

Response: The cooling tower (LOU 46) was investigated as part of the Phase B investigation with eleven borings to depths of approximately 40 feet below ground surface. Select samples were analyzed for perchlorate, metals, hexavalent chromium, radionuclides, total petroleum hydrocarbons, dioxin/furans, and asbestos in accordance with the NDEP-approved Phase B sampling and analysis plans.

5. *TRX should also propose sampling on the southern boundary of the manganese tailings area.*

Response: The southern boundary is an area of active operations. There is an active utility corridor that runs along this boundary precluding drilling. The area will be addressed in the future when operations cease and the utilities are no longer active. It should be noted that Phase B borings in the Mn tailings area indicate that soils are below basic comparison levels.

6. *Figure 1, NDEP provides the following comments:*
 - a. *Please clarify what the Manganese Boring Locations are and if samples were collected, please present the results.*
 - b. *Please provide the Phase B results in this Figure.*

Response:

- a. MN-1 through MN-9 were borings advanced through the Mn tailings for waste profiling characteristics. The borings were not advanced into soil. The Mn tailings characterization report is included as Attachment A.
- b. Figure 1 has been revised to show the Phase B sampling locations. Results from the Phase B sampling are presented in Table 2.





environmental management, inc.

REVISED MEMORANDUM

From: Deni Chambers, Principal-in-Charge
Derrick Willis, Project Manager

Date: July 27, 2010

To: Shannon Harbour, PE
Nevada Division of Environmental Protection

RE: Revised Manganese Tailings Pile Confirmation Sampling Memo

The Nevada Division of Environmental Protection (NDEP) has requested that confirmation sampling be performed at the location of the former manganese (Mn) tailings pile at the Tronox facility in Henderson, Nevada (the Site) following removal of the Mn tailings.

Description and Background

The Mn tailings area is located north of the Mn leach plant and south of Mn-1 Pond. The area is approximately 8.6 acres in size. The southern edge of the area is still active and Mn tailings are still present. A narrow concrete foundation for a former cooling tower traverses the area from west to east.

From 1975 to 2004, this area was used for the disposal of Mn tailings from the leach plant process which included the leach beds. Mn tailings material from all locations at the Site were consolidated to the current location and covered with soil sometime prior to 1985. The tailings pile was periodically graded to maintain the desired shape and drainage. Concrete removed from Unit 6 was also disposed in the Mn tailings pile. Since 2001 to 2004, Mn tailings have been removed and disposed at an appropriate landfill.

Removal of the tailings was completed on July 19, 2010. A total of 284,232 tons of Mn tailings and debris were removed from the area, of which 0.4% was debris consisting of a minor amount of wood (approximately 3-5 cubic yards) which appears to be associated with forming the cooling tower concrete foundation structure. The cooling tower (Letter of Understanding [LOU] 46) was investigated as part of the Phase B investigation by 11 borings to depths of approximately 40 feet bgs. Select samples were analyzed for perchlorate, metals, hexavalent chromium, radionuclides, total petroleum hydrocarbons, dioxin/furans, and asbestos. No samples exceeded their respective basic comparison levels (BCLs). Phase B investigation results are presented in Table 2.

During tailings removal, a shallow inactive vitreous clay pipe, historically used for transport of non-contact cooling water, was disturbed. Approximately 5 to 10 gallons per minute (gpm) of water was discharged to the ground surface for approximately 24 hours before Tronox was able to close a valve. The pipe breakage and subsequent discharge was reported to NDEP by Tronox via e-mail on July 12, 2010. Tronox indicated in the e-

mail that the source of the water was stabilized Lake Mead water. The water was sampled and tested and was found to have a pH of 6.62, a conductivity of 3,340 µmho/cm, and barium and mercury at concentrations of 0.22 mg/L and 0.02 mg/L, respectively. No other metals were detected.

Confirmation Soil Sampling

Confirmation soil sampling will be conducted following procedures set forth in Northgate's *Pre-Confirmation Sampling Work Plan*¹ and the BMI standard operating procedures (SOPs)². The objectives of the sampling program are: 1) to confirm that Mn tailings are removed and that associated chemicals (manganese, cobalt and arsenic) are below the following screening levels. NDEP's BCLs for manganese and cobalt are 13,700 and 331 milligrams per kilogram (mg/kg), respectively, and the background concentration for arsenic is 7.2 mg/kg; and, 2) to additionally analyze select shallow soil samples for dioxin/furans based on previous Phase B soil boring SA52, where a 890 parts per trillion dioxin concentration was detected.

Soil samples will be collected using a slide-hammer sampler from 21 locations at a depth of 0-6 inches below ground surface (bgs), as shown on Figure 1. Additional samples will be collected from 6-12 inches bgs at each sampling location; these samples will be placed on hold pending receipt of analytical results of the shallow samples. Nine of the sample locations will be placed in a grid pattern across the main portion of the Mn tailings area; four will be located along the eastern property boundary; two will be located along the west boundary of the tailings area; four will be located along the north boundary of the tailings area; and two will be located in the vicinity of boring SA139 (northeast corner). No samples will be collected along the southern boundary, as this area is a part of active Site operations and there is an active utility corridor present. The proposed sampling locations and analyses are presented in Table 1.

Results of confirmation soil sampling will be presented in the Human Health Risk Assessment and Closure report for RZ-C.

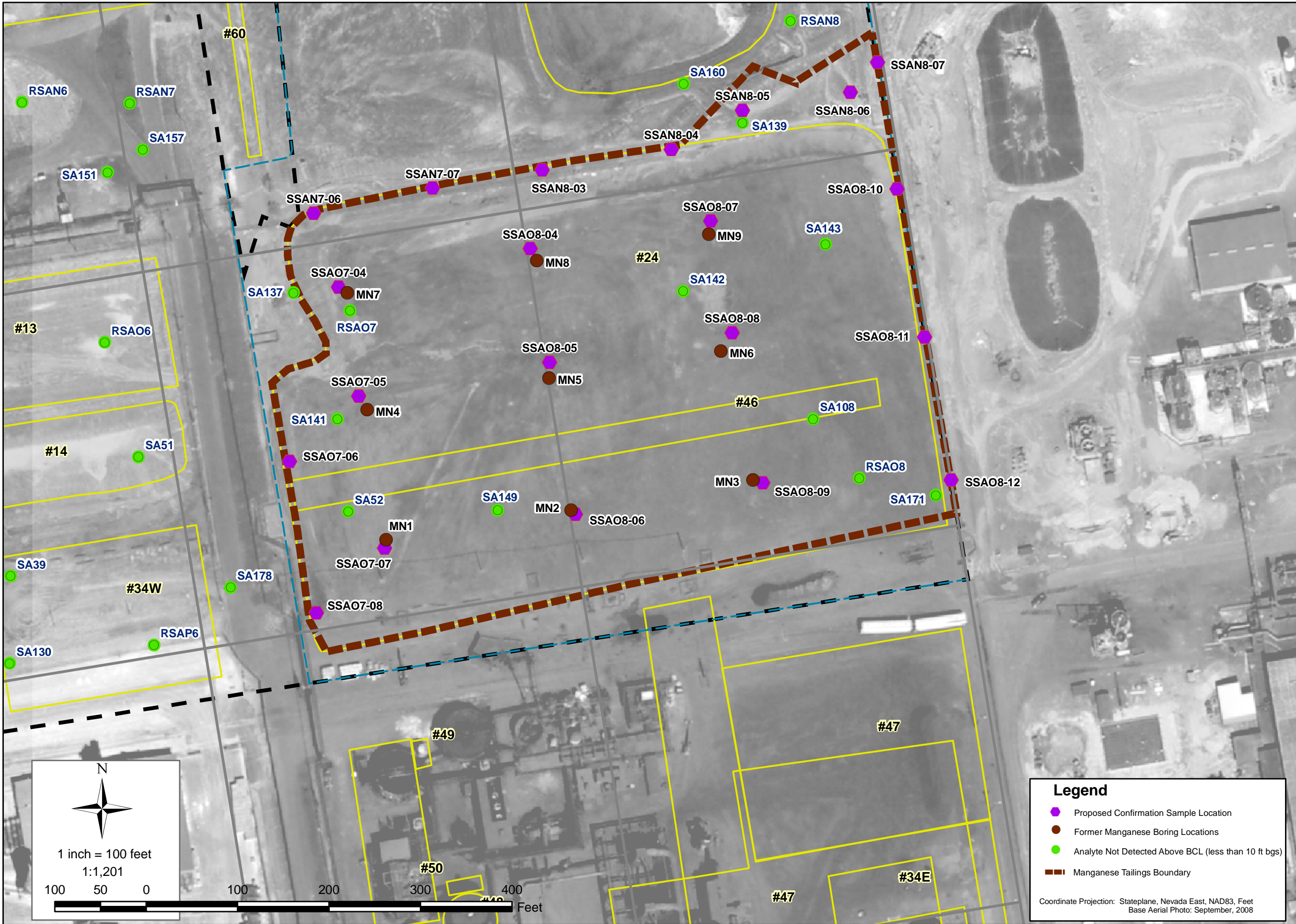
If you have any questions about this sampling program, please contact us.

Enclosures: Figure 1 – Manganese Tailings Proposed Sampling Locations
Table 1 – Confirmation Sampling Plan for Manganese Tails Area
Table 2 – Phase B Investigation Results
Attachment A – Volume Determination of Manganese Tailings Pile,
Tronox Facility, Henderson, Nevada. Prepared by ENSR/AECOM on
April 9, 2007.
Response to NDEP's Comments

¹ Northgate. 2010. Final Revised Pre-Confirmation Work Plan, Remediation Zones RZ-A Through RZ-E, Phase B Investigation, Tronox Facility, Henderson, Nevada. March 25.

² ERM-West, Inc. 2009. BRC Field Sampling and Standard Operating Procedures, BMI Common Areas, Clark County, Nevada. December.





Legend

- Proposed Confirmation Sample Location
- Former Manganese Boring Locations
- Analyte Not Detected Above BCL (less than 10 ft bgs)
- · — · Manganese Tailings Boundary

Coordinate Projection: Stateplane, Nevada East, NAD83, Feet
Base Aerial Photo: September, 2008

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DESIGNED BY:	NO:	REVISIONS:	DESCRIPTION:	DATE:	BY:
CW					
DRAWN BY:					
KH					
CHECKED BY:					
CW					
APPROVED BY:					
DW					

MANGANESE TAILINGS PROPOSED SAMPLE LOCATIONS		
Tronox LLC Henderson, Nevada		
SCALE: 1 in = 100 ft	DATE: 07/26/10	PROJECT NUMBER: 2027.08 T10

FIGURE NUMBER: 1
SHEET NUMBER: 1

TABLE 1
Confirmation Sampling Plan for Manganese Tails Area

Line Number for Reference	Boring Identification	Grid	Sampling Depth	Sampling Identification	8290 Dioxin	6020 Arsenic	6020 Cobalt	6020 Manganese
1	SSAN7-06	N7	0-6" 6-12"	SSAN7-06-0.0BPC SSAN7-06-0.5BPC		X Hold	X Hold	X Hold
2	SSAN7-07	N7	0-6" 6-12"	SSAN7-07-0.0BPC SSAN7-07-0.5BPC		X Hold	X Hold	X Hold
3	SSAN8-03	N8	0-6" 6-12"	SSAN8-03-0.0BPC SSAN8-03-0.5BPC		X Hold	X Hold	X Hold
4	SSAN8-04	N8	0-6" 6-12"	SSAN8-04-0.0BPC SSAN8-04-0.5BPC		X Hold	X Hold	X Hold
5	SSAN8-05	N8	0-6" 6-12"	SSAN8-05-0.0BPC SSAN8-05-0.5BPC		X Hold	X Hold	X Hold
6	SSAN8-06	N8	0-6" 6-12"	SSAN8-06-0.0BPC SSAN8-06-0.5BPC		X Hold	X Hold	X Hold
7	SSAN8-07	N8	0-6" 6-12"	SSAN8-07-0.0BPC SSAN8-07-0.5BPC		X Hold	X Hold	X Hold
8	SSAO7-04	O7	0-6" 6-12"	SSAO7-04-0.0BPC SSAO7-04-0.5BPC		X Hold	X Hold	X Hold
9	SSAO7-05	O7	0-6" 6-12"	SSAO7-05-0.0BPC SSAO7-05-0.5BPC		X Hold	X Hold	X Hold
10	SSAO7-06	O7	0-6" 6-12"	SSAO7-06-0.0BPC SSAO7-06-0.5BPC	X Hold	X Hold	X Hold	X Hold
11	SSAO7-07	O7	0-6" 6-12"	SSAO7-07-0.0BPC SSAO7-07-0.5BPC	X Hold	X Hold	X Hold	X Hold
12	SSAO7-08	O7	0-6" 6-12"	SSAO7-08-0.0BPC SSAO7-08-0.5BPC		X Hold	X Hold	X Hold
13	SSAO8-04	O8	0-6" 6-12"	SSAO8-04-0.0BPC SSAO8-04-0.5BPC		X Hold	X Hold	X Hold
14	SSAO8-05	O8	0-6" 6-12"	SSAO8-05-0.0BPC SSAO8-05-0.5BPC	X Hold	X Hold	X Hold	X Hold
15	SSAO8-06	O8	0-6" 6-12"	SSAO8-06-0.0BPC SSAO8-06-0.5BPC		X Hold	X Hold	X Hold
16	SSAO8-07	O8	0-6" 6-12"	SSAO8-07-0.0BPC SSAO8-07-0.5BPC	X Hold	X Hold	X Hold	X Hold
17	SSAO8-08	O8	0-6" 6-12"	SSAO8-08-0.0BPC SSAO8-08-0.5BPC		X Hold	X Hold	X Hold
18	SSAO8-09	O8	0-6" 6-12"	SSAO8-09-0.0BPC SSAO8-09-0.5BPC		X Hold	X Hold	X Hold
19	SSAO8-10	O8	0-6" 6-12"	SSAO8-10-0.0BPC SSAO8-10-0.5BPC		X Hold	X Hold	X Hold
20	SSAO8-11	O8	0-6" 6-12"	SSAO8-11-0.0BPC SSAO8-11-0.5BPC		X Hold	X Hold	X Hold
21	SSAO8-12	O8	0-6" 6-12"	SSAO8-12-0.0BPC SSAO8-12-0.5BPC		X Hold	X Hold	X Hold

Table 2
Phase B Investigation Results - Metals

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Analyte	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (Total)
						CAS_RN Units	7429-90-5 mg/kg	7440-36-0 mg/kg	7440-38-2 mg/kg	7440-39-3 mg/kg	7440-41-7 mg/kg	7440-42-8 mg/kg	7440-43-9 mg/kg	7440-47-3 mg/kg
						Lab Report	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSAO7-19B	RSAO7	10/12/2009	19	20.5	ft	R0905829	9150	< 0.5	2.94	167	0.593	< 10.5	< 0.04	10.5
RSAO7-29B	RSAO7	10/12/2009	29	30.5	ft	R0905829	9930	< 2.1	3.83	167	0.5	< 10.6	< 0.04	8.29
RSAO7-47B	RSAO7	10/12/2009	47	48.5	ft	R0905829	18300	< 2.2	17.3	89.2	0.845	38.3	< 0.04	38.5
RSAO7-9B	RSAO7	10/12/2009	9	10.5	ft	R0905829	9500	< 0.5	1.87	154	0.525	< 10.5	< 0.04	8.76
RSAO8-11.5B	RSAO8	9/14/2009	11.5	13	ft	R0905218	11600	< 0.5	4.75	336	0.517	7	1.56	11
RSAO8-21.5B	RSAO8	9/14/2009	21.5	23	ft	R0905218	12100	< 0.5	5.21	346	0.581	7.8	1.84	14.9
RSAO8-43B	RSAO8	9/14/2009	43	43.5	ft	R0905218	11500	< 0.6	17.9	150	0.448	15.4	1.04	11.6
SA108-20B	SA108	10/16/2009	20	21.5	ft	R0905963	8850	< 2.1	2.16	215	0.521	38.8	0.19	12
SA108-30B	SA108	10/16/2009	30	31.5	ft	R0905963	8490	< 2.1	2.26	153	0.433	39.5	0.17	8.03
SA108-45B	SA108	10/16/2009	45	46.5	ft	R0905963	7690	< 2.4	8.86	138	0.379	15.2	0.09	6.53
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	R0905829	20100	0.9	38.2	1500	1.02	29.4	2.79	52.7
SA137-15B	SA137	10/9/2009	15	16.5	ft	R0905829	10700	< 0.5	4.88	206	0.517	< 10.7	< 0.04	9.65
SA137-31B	SA137	10/9/2009	31	32.5	ft	R0905829	14000	0.7	17.9	103	0.569	25.2	< 0.04	44.1
SA139-0.5B	SA139	8/20/2009	0.5	2	ft	R0904746	19600	< 0.5	24.7	1720	0.932	232	1.31	16.3
SA139009-25B	SA139	8/20/2009	25	26.5	ft	R0904746	10900	< 0.5	4.53	216	0.484	11	0.17	10.2
SA139-10B	SA139	8/20/2009	10	11.5	ft	R0904746	10200	< 0.5	6.85	370	0.59	36.4	0.34	11.3
SA139-25B	SA139	8/20/2009	25	26.5	ft	R0904746	10300	< 0.5	4.12	161	0.48	< 10.8	0.22	9.59
SA139-35B	SA139	8/20/2009	35	36.5	ft	R0904746	10300	< 0.5	18.3	192	0.482	18.1	0.17	10.8
SA141009-14B	SA141	10/15/2009	14	15.5	ft	R0905882	10700	< 0.5	1.57	200	0.435	< 10.6	< 0.04	6.63
SA141-14B	SA141	10/15/2009	14	15.5	ft	R0905882	10300	0.7	1.81	188	0.485	< 10.7	< 0.04	7.53
SA141-24B	SA141	10/15/2009	24	25.5	ft	R0905882	9980	< 0.5	2.73	226	0.446	< 10.7	< 0.04	7.73
SA141-30B	SA141	10/15/2009	30	31.5	ft	R0905882	10200	< 0.5	3.69	204	0.408	< 10.8	< 0.04	7.68

Table 2
Phase B Investigation Results - Metals

SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	9450	< 0.5	223	208	0.413	7.2	0.26	6.22
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	9600	< 2.1	124	227	0.438	7.4	0.21	6.41
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	R0905963	9280	< 2.2	2.62	194	0.471	8.1	0.15	7.44
SA142-51B	SA142	10/16/2009	51	52.5	ft	R0905963	8520	< 2.1	9.89	468	0.463	15.5	0.28	8.97
SA143009-50B	SA143	10/15/2009	50	51.5	ft	R0905882	8440	1	15.1	205	0.427	14.5	0.23	8.74
SA143-24B	SA143	10/15/2009	24	25.5	ft	R0905882	11100	< 0.5	2.08	183	0.496	< 10.9	< 0.04	7.02
SA143-34B	SA143	10/15/2009	34	34.5	ft	R0905882	10600	< 0.5	2.49	149	0.397	< 10.6	< 0.04	6.22
SA143-50B	SA143	10/15/2009	50	51.5	ft	R0905882	9250	0.6	15	206	0.4	12.2	< 0.05	7.89
SA149009-45B	SA149	10/21/2009	45	46.5	ft	R0906024	6810	1.1	21.1	89.3	0.363	11.9	< 0.04	15.2
SA149-22B	SA149	10/21/2009	22	23.5	ft	R0906024	7460	0.8	1.52	193	0.446	< 10.9	0.07	7.42
SA149-32B	SA149	10/21/2009	32	33.5	ft	R0906024	7370	< 0.5	2.19	149	0.36	< 10.9	< 0.04	5.87
SA149-45B	SA149	10/21/2009	45	46.5	ft	R0906024	6760	1.1	25	173	0.333	12.9	< 0.04	20.1
SA171-15B	SA171	10/19/2009	15	16.5	ft	R0905963	9540	< 2.2	1.88	218	0.494	< 10.9	0.22	7.27
SA171-30B	SA171	10/19/2009	30	31.5	ft	R0905963	8620	< 2.2	3.17	156	0.457	< 11	0.09	8.52
SA171-41B	SA171	10/19/2009	41	42.5	ft	R0905963	9250	< 0.6	10.3	69	0.409	16.4	< 0.05	14.3
SA171-5B	SA171	10/19/2009	5	6.5	ft	R0905963	8260	< 2.1	2.07	168	0.414	< 10.6	0.13	6.89
SA52-15B	SA52	10/21/2009	15	16.5	ft	R0906024	7180	1.7	11.5	284	0.478	59.6	0.37	31.6
SA52-28B	SA52	10/21/2009	28	29.5	ft	R0906024	8870	1.1	4.1	145	0.445	15.7	< 0.04	8.88
SA52-43B	SA52	10/21/2009	43	44.5	ft	R0906024	17900	1.4	32	42.7	0.62	70.5	0.19	41.2

Table 2
Phase B Investigation Results - Metals

Chromium (VI) 18540-29-9 mg/kg	Cobalt 7440-48-4 mg/kg	Copper 7440-50-8 mg/kg	Iron 7439-89-6 mg/kg	Lead 7439-92-1 mg/kg	Magnesium 7439-95-4 mg/kg	Manganese 7439-96-5 mg/kg	Mercury 7439-97-6 mg/kg	Molybdenum 7439-98-7 mg/kg	Nickel 7440-02-0 mg/kg	Platinum 7440-06-4 mg/kg	Potassium 7440-09-7 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.19 < 0.19	7.5	18.3	14100	8.3	9530	397	0.008	0.44	15	< 0.1	1770
< 0.19 0.30	26.4	25.4	16100	8.1	11000	2150	0.01	0.34	22.1	< 0.11	1960
8.56 8.73	6.9	17.6	15700	11.7	30700	357	0.006	0.8	14.4	< 0.11	5180
< 0.19 < 0.19	8.9	20.7	15400	9.8	8730	1330	0.024	0.3	19.9	< 0.1	2880
0.66 0.59	201	53.9	20000	12.6	8730	9010	0.028	0.9	98.4	0.008	2590
0.83 0.73	284	77.1	21000	12.2	10200	6280	0.027	1.97	164	0.01	2330
< 0.21 < 0.21	96.7	25	14800	8.5	19000	1280	0.014	1.41	55.7	0.007	2740
1.95 2.01	19.8	24.8	15900	8.7	8460	967	0.018	0.72	19.4	0.007	3090
< 0.19 < 0.19	7	19.7	15400	6.8	9730	313	0.005	0.32	15.6	0.008	1900
< 0.22 < 0.22	5.3	14.6	11700	6.9	9210	320	0.007	0.57	10.3	0.006	1960
4.11 4.23	784	272	22500	98.7	12000	41900	0.115	9.08	274	< 0.1	3540
< 0.19 < 0.19	8.6	19.1	16900	10	11500	461	0.03	0.32	15	< 0.11	3290
0.51 0.55	5.3	14.3	12100	7.3	38100	235	0.01	0.36	11.6	< 0.018	4220
1.10 1.04	335	258	25000	115	9300	21600	0.08	7.34	175	0.026	3560
< 0.20 < 0.20	11.6	22.5	18300	13.1	13500	625	0.008	0.99	17.1	0.014	2230
< 0.19 < 0.19	55.5	52.6	17400	31.3	10200	4050	0.031	1.44	37.9	0.016	2350
< 0.19 < 0.19	9.2	20.5	16000	8.5	12300	474	0.01	0.48	14.8	0.011	2100
< 0.23 < 0.23	8.7	17.4	13800	8.3	17800	500	0.01	1.06	13	0.014	2570
< 0.19 < 0.19	8.4	19.7	16800	10.6	9630	461	0.032	0.95	15.9	< 0.11	6120
< 0.19 < 0.19	7.4	18.3	15300	9.2	9680	404	0.024	1.05	14.4	< 0.11	5500
< 0.19 < 0.19	7.9	19.3	14900	8.7	13300	375	0.012	0.34	14.8	< 0.11	1970
< 0.20 < 0.20	6.8	18.5	14200	8.2	12400	304	0.009	0.33	13.6	< 0.11	1900

**Table 2
Phase B Investigation Results - Metals**

< 0.19 < 0.19	8.8	47.8	15300	3280	9610	9760	0.026	9.15	17.6	0.006	3360
0.22 < 0.19	9.8	39.5	16800	1990	9590	7420	0.021	5.59	18.2	0.008	3440
< 0.19 < 0.19	8.2	19.7	16400	9.1	9990	1410	0.019	0.43	16.6	0.007	1950
0.64 0.67	39.7	37.5	13600	32.3	8310	2000	0.012	1.61	28.7	0.009	2030
< 0.20 < 0.20	20.6	18.2	12500	8.5	14400	434	0.051	0.64	16.8	< 0.096	2230
0.34 0.36	9.1	18.3	15600	9.6	8860	3970	0.008	0.2	20.6	< 0.11	2750
< 0.19 < 0.19	8.4	19.6	16000	7.3	11700	2800	0.012	2.16	18.2	< 0.11	1760
< 0.21 < 0.21	19.4	23.2	14700	12.6	13500	687	0.009	0.55	16.9	< 0.12	2300
< 0.23 < 0.23	4.6	11.2	7960	4.6	17500	147	0.012	0.27	9.01	0.008	1830
0.25 0.23	77.2	29.9	11500	10.3	7790	1250	0.126	0.33	31.5	0.009	2730
< 0.20 < 0.20	7.9	17.7	11100	6.6	9490	1460	0.08	0.24	13	0.01	1940
< 0.22 < 0.22	7.4	12	8310	6.2	19200	189	0.012	0.36	9.59	0.01	1900
< 0.19 < 0.19	11.3	20.5	15800	9.5	9220	723	0.013	0.48	17.3	0.006	2220
< 0.20 < 0.20	6.8	18.8	15300	7.6	11500	260	0.016	< 0.33	15.5	0.007	1750
1.74 1.62	5.1	11.9	14100	10.7	10700	124	0.008	< 0.1	11.4	0.008	2840
< 0.19 < 0.19	8	19.4	15200	8.3	9590	443	0.012	0.51	14.7	0.006	1790
3.63 3.05	9.5	52.9	10400	221	12700	3920	0.083	4.33	18	0.023	2830
< 0.19 0.29	6.1	15.3	11700	7.6	12000	247	0.007	0.2	11.9	0.01	2100
1.49 1.28	5.4	15.7	12100	7.3	71100	202	0.007	0.61	13.9	0.026	3010

Table 2
Phase B Investigation Results - Metals

Selenium 7782-49-2 mg/kg	Silver 7440-22-4 mg/kg	Sodium 7440-23-5 mg/kg	Strontium 7440-24-6 mg/kg	Thallium 7440-28-0 mg/kg	Tin 7440-31-5 mg/kg	Titanium 7440-32-6 mg/kg	Tungsten 7440-33-7 mg/kg	Uranium 7440-61-1 mg/kg	Vanadium 7440-62-2 mg/kg	Zinc 7440-66-6 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.7	< 0.2	473	208	0.119	< 10.5	716	0.22	1.39	44.4	31.9
< 0.7	< 0.2	713	320	0.099	< 10.6	782	0.23	1.79	50	38.9
< 0.8	< 0.2	2550	118	0.302	< 11.1	724	0.4	2.78	40.2	46.6
< 0.7	< 0.2	310	136	0.119	< 10.5	779	0.23	0.747	42.9	34.5
< 0.7	< 0.2	870	174	0.609	< 10.7	1180	0.74	1.17	59.4	90.4
< 0.7	< 0.2	846	288	0.852	< 10.7	1030	0.7	2.48	54.1	154
< 0.8	< 0.2	823	577	0.471	< 11.8	879	0.41	3.3	52.7	60.7
< 0.7	< 0.2	1910	150	0.98	< 10.6	907	0.4	0.793	47.2	42.2
1	< 0.2	1400	167	0.105	< 10.6	818	0.2	1.21	46.5	31.4
< 0.8	< 0.2	879	372	0.071	< 11.9	636	0.27	1.85	40	25.1
< 0.7	< 0.2	922	284	4.13	< 10	1130	23.9	1.69	84.8	328
< 0.7	< 0.2	1810	177	0.095	< 10.7	908	0.37	1.68	56.1	36.1
< 0.8	< 0.2	2560	253	0.24	< 11.1	698	< 0.45	5.91	43.8	34.1
< 0.8	0.5	1710	347	1.38	< 10.9	1000	9.34	1.61	76.2	233
< 0.8	< 0.2	650	275	0.091	< 10.8	1060	0.23	1.84	56.5	38.1
< 0.7	< 0.2	653	207	0.398	< 10.6	913	1.32	1.11	50.8	58.7
< 0.8	< 0.2	684	316	0.099	< 10.8	816	0.24	1.6	46.7	32.9
< 0.7	< 0.2	891	1570	0.127	< 10.4	763	1.4	3.79	52.7	29.4
< 0.7	< 0.2	946	138	0.17	< 10.6	881	0.81	0.829	49	39.2
< 0.8	< 0.2	864	167	0.177	< 10.7	853	0.81	0.958	43.9	35.1
< 0.8	< 0.2	1060	270	0.081	< 10.7	849	0.21	1.81	46.5	35.8
< 0.8	< 0.2	1010	301	0.068	< 10.8	833	0.23	2.74	46.5	31.6

Table 2
Phase B Investigation Results - Metals

< 0.8	< 0.2	382	1130	1.05	< 10.7	893	1.22	0.883	45.7	83.2
< 0.7	< 0.2	407	650	0.918	< 10.7	978	3.02	0.868	49.6	64.5
< 0.8	< 0.2	426	269	0.086	< 10.8	790	0.22	0.901	53	32.7
< 0.8	< 0.2	975	1180	0.477	< 10.7	627	1.93	1.84	49.4	52.5
< 0.7	< 0.2	843	392	0.106	< 9.6	623	1.63	4.61	51.3	30.9
< 0.8	< 0.2	393	186	0.087	< 10.9	822	0.26	0.944	46.8	36.2
< 0.7	< 0.2	719	230	0.069	< 10.6	792	0.21	1.31	46.6	34.2
< 0.8	< 0.2	962	301	0.145	< 11.5	819	2.27	4.8	65.7	35.3
< 3.6	< 0.2	587	238	0.108	< 9	336	0.41	3.49	43.8	20.6
< 4.4	< 0.2	358	123	0.278	< 10.9	492	0.39	0.821	28.5	36.5
< 4.4	< 0.2	615	192	0.066	< 10.9	421	0.22	1.22	30.2	28.9
< 3.6	< 0.2	611	219	0.112	< 9	370	0.45	3.86	54	20.9
< 0.8	< 0.2	600	179	0.096	< 10.9	772	0.17	0.917	45.8	35.4
< 0.8	< 0.2	598	201	0.095	< 11	805	0.15	2.09	47.6	30.3
< 0.8	< 0.2	592	449	0.128	19.8	787	0.22	3.86	56.3	22.7
< 0.7	< 0.2	621	212	0.076	< 10.6	682	0.15	0.995	41.7	31.1
< 0.8	< 0.2	2180	495	1.78	< 10.9	438	15.7	1.46	33.3	100
< 4.4	< 0.2	1950	211	0.079	< 11	513	0.71	1.8	33.1	28.6
< 0.8	< 0.2	3500	199	0.26	< 10.8	554	0.87	7.39	53.7	38.4

Table 2
Phase B Investigation Results - PCBs

							Analyte	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
							CAS_RN	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5
							Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	
SA52-15B	SA52	10/21/2009	15	16.5	ft	R0906024	< 0.019	< 0.042	< 0.019	< 0.029	< 0.019	< 0.019	0.077	
SA52-28B	SA52	10/21/2009	28	29.5	ft	R0906024	< 0.019	< 0.042	< 0.019	< 0.029	< 0.019	< 0.019	< 0.033	

Table 2
Phase B Investigation Results - Pesticides

						Analyte	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Alpha-chlordane	Beta-BHC	Delta-BHC
						CAS_RN	72-54-8	72-55-9	50-29-3	309-00-2	319-84-6	5103-71-9	319-85-7	319-86-8
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSAO7-19B	RSAO7	10/12/2009	19	20.5	ft	R0905829	< 0.0018	< 0.0018	< 0.0018	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091
RSAO7-29B	RSAO7	10/12/2009	29	30.5	ft	R0905829	< 0.0019	< 0.0019	< 0.0019	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091
RSAO7-47B	RSAO7	10/12/2009	47	48.5	ft	R0905829	< 0.0027	< 0.0027	< 0.0027	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
RSAO7-9B	RSAO7	10/12/2009	9	10.5	ft	R0905829	< 0.0018	< 0.0018	< 0.0018	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091
RSAO8-11.5B	RSAO8	9/14/2009	11.5	13	ft	R0905218	< 0.0018	< 0.0018	< 0.0018	< 0.0009	< 0.0009	< 0.0009	0.0025	< 0.0009
RSAO8-21.5B	RSAO8	9/14/2009	21.5	23	ft	R0905218	< 0.0019	< 0.0019	< 0.0019	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091
RSAO8-43B	RSAO8	9/14/2009	43	43.5	ft	R0905218	< 0.0021	< 0.0021	< 0.0021	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
SA52-15B	SA52	10/21/2009	15	16.5	ft	R0906024	< 0.0019	0.017	0.017	< 0.00093	< 0.00093	< 0.00093	0.013	< 0.00093
SA52-28B	SA52	10/21/2009	28	29.5	ft	R0906024	< 0.0019	< 0.0019	< 0.0019	< 0.00093	< 0.00093	< 0.00093	< 0.00093	< 0.00093

Table 2
Phase B Investigation Results - Pesticides

Dieldrin 60-57-1 mg/kg	Endosulfan I 959-98-8 mg/kg	Endosulfan II 33213-65-9 mg/kg	Endosulfan Sulfate 1031-07-8 mg/kg	Endrin 72-20-8 mg/kg	Endrin Aldehyde 7421-93-4 mg/kg	Endrin Ketone 53494-70-5 mg/kg	Gamma-BHC (Lindane) 58-89-9 mg/kg	Gamma-Chlordane 5103-74-2 mg/kg	Heptachlor 76-44-8 mg/kg	Heptachlor Epoxide 1024-57-3 mg/kg	Hexachlorobenzene 118-74-1 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.0018	< 0.00091	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.00091	< 0.00091	< 0.00091	< 0.00091	< 0.00091
< 0.0019	< 0.00091	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.00091	< 0.00091	< 0.00091	< 0.00091	0.00091
< 0.0027	< 0.0014	< 0.0027	< 0.0027	< 0.0027	< 0.0027	< 0.0027	< 0.0014	0.0058	< 0.0014	< 0.0014	< 0.0014
< 0.0018	< 0.00091	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.00091	0.0014	< 0.00091	< 0.00091	< 0.00091
< 0.0018	< 0.0009	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0099
< 0.0019	< 0.00091	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.00091	< 0.00091	< 0.00091	< 0.00091	0.0011
< 0.0021	< 0.0011	< 0.0021	< 0.0021	< 0.0021	< 0.0021	< 0.0021	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
< 0.0019	< 0.00093	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.00093	0.0044	< 0.00093	< 0.00093	0.37
< 0.0019	< 0.00093	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.00093	< 0.00093	< 0.00093	< 0.00093	< 0.00093

Table 2
Phase B Investigation Results - Pesticides

Methoxychlor 72-43-5 mg/kg	Tech-Chlordane 57-74-9 mg/kg	Toxaphene 8001-35-2 mg/kg
report_result_text	report_result_text	report_result_text
< 0.0090	< 0.0045	< 0.018
< 0.0091	< 0.0046	< 0.018
< 0.014	< 0.0066	< 0.027
< 0.0090	< 0.0045	< 0.018
< 0.009	< 0.0045	< 0.018
< 0.0091	< 0.0046	< 0.018
< 0.011	< 0.0051	< 0.021
< 0.0092	< 0.0046	< 0.019
< 0.0092	< 0.0046	< 0.019

Table 2
Phase B Investigation Results - SVOCs

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	Analyte	1,4-Dioxane	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
							CAS_RN	123-91-1	91-57-6	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2
						Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
							report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSA07-19B	RSA07	10/12/2009	19	20.5	ft	R0905829	< 0.0052	< 0.00059	< 0.0011	< 0.00078	< 0.0013	< 0.00060	< 0.00071	< 0.0012	
RSA07-29B	RSA07	10/12/2009	29	30.5	ft	R0905829	< 0.0052	< 0.00060	< 0.0011	< 0.00078	< 0.0013	< 0.00061	< 0.00071	< 0.0012	
RSA07-47B	RSA07	10/12/2009	47	48.5	ft	R0905829	< 0.0076	< 0.00087	< 0.0016	< 0.0012	< 0.0019	< 0.00089	< 0.0011	< 0.0018	
RSA07-9B	RSA07	10/12/2009	9	10.5	ft	R0905829	< 0.0052	< 0.00059	< 0.0011	< 0.00078	< 0.0013	< 0.00060	< 0.00071	< 0.0012	
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	R0905829	< 0.0050	0.0020	< 0.0010	< 0.00074	< 0.0012	0.0051	0.0034	0.0075	
SA137-15B	SA137	10/9/2009	15	16.5	ft	R0905829	< 0.0053	< 0.00060	< 0.0011	< 0.00079	< 0.0013	< 0.00061	< 0.00072	< 0.0012	
SA137-31B	SA137	10/9/2009	31	32.5	ft	R0905829	< 0.0066	< 0.00075	< 0.0014	< 0.00098	< 0.0016	< 0.00076	< 0.00089	< 0.0015	
SA141009-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 0.0052	< 0.00059	< 0.0011	< 0.00078	< 0.0013	< 0.00061	< 0.00071	< 0.0012	
SA141-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 0.0052	< 0.00059	< 0.0011	< 0.00078	< 0.0013	< 0.00060	< 0.00071	< 0.0012	
SA141-24B	SA141	10/15/2009	24	25.5	ft	R0905882	< 0.0053	< 0.00061	< 0.0011	< 0.00079	< 0.0013	< 0.00062	< 0.00072	< 0.0012	
SA141-30B	SA141	10/15/2009	30	31.5	ft	R0905882	< 0.0053	< 0.00061	< 0.0011	< 0.00079	< 0.0013	< 0.00062	< 0.00072	< 0.0012	
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 0.0052	< 0.00059	< 0.0011	< 0.00078	< 0.0013	< 0.00060	< 0.00071	< 0.0012	
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 0.0052	< 0.00060	< 0.0011	< 0.00078	< 0.0013	< 0.00061	< 0.00071	< 0.0012	
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	R0905963	< 0.0053	< 0.00060	< 0.0011	< 0.00079	< 0.0013	< 0.00061	< 0.00072	< 0.0012	
SA142-51B	SA142	10/16/2009	51	52.5	ft	R0905963	< 0.0053	< 0.00060	< 0.0011	< 0.00079	< 0.0013	0.0011	< 0.00072	< 0.0012	
SA171-15B	SA171	10/19/2009	15	16.5	ft	R0905963	< 0.0053	< 0.00061	< 0.0011	< 0.00080	< 0.0013	< 0.00062	< 0.00073	< 0.0013	
SA171-30B	SA171	10/19/2009	30	31.5	ft	R0905963	< 0.0053	< 0.00061	< 0.0011	< 0.00080	< 0.0013	< 0.00062	< 0.00072	< 0.0012	
SA171-41B	SA171	10/19/2009	41	42.5	ft	R0905963	< 0.0059	< 0.00067	< 0.0012	< 0.00088	< 0.0014	< 0.00068	< 0.00080	< 0.0014	
SA171-5B	SA171	10/19/2009	5	6.5	ft	R0905963	< 0.0053	< 0.00060	< 0.0011	< 0.00079	< 0.0013	< 0.00061	< 0.00071	< 0.0012	

Table 2
Phase B Investigation Results - SVOCs

Benzo(g,h,i)perylene 191-24-2 mg/kg	Benzo(k)fluoranthene 207-08-9 mg/kg	bis(2-Ethylhexyl)phthalate 117-81-7 mg/kg	Butyl benzyl phthalate 85-68-7 mg/kg	Chrysene 218-01-9 mg/kg	Dibenz(a,h)anthracene 53-70-3 mg/kg	Diethyl phthalate 84-66-2 mg/kg	Dimethyl phthalate 131-11-3 mg/kg	Di-N-Butyl phthalate 84-74-2 mg/kg	Di-N-Octyl phthalate 117-84-0 mg/kg	Fluoranthene 206-44-0 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.0013	< 0.00087	< 0.14	< 0.0025	< 0.0011	< 0.00081	< 0.13	< 0.00093	< 0.088	< 0.0012	< 0.0015
< 0.0013	< 0.00087	< 0.14	< 0.0025	0.0040	< 0.00081	< 0.13	< 0.00094	< 0.035	< 0.0012	0.0090
< 0.0019	< 0.0013	< 0.2	< 0.0036	< 0.0016	< 0.0012	< 0.19	< 0.0014	< 0.074	< 0.0017	< 0.0022
< 0.0013	< 0.00087	< 0.14	< 0.0025	< 0.0011	< 0.00081	< 0.13	< 0.00094	0.13	< 0.0012	< 0.0015
0.0051	0.0085	< 0.13	< 0.0024	0.014	< 0.00077	< 0.12	< 0.00089	0.057	< 0.0011	0.022
< 0.0013	< 0.00088	< 0.14	< 0.0025	< 0.0011	< 0.00082	< 0.13	< 0.00095	< 0.036	< 0.0012	< 0.0015
< 0.0016	< 0.0011	< 0.18	< 0.0031	< 0.0013	< 0.0011	< 0.16	< 0.0012	< 0.044	< 0.0015	< 0.0019
< 0.0013	< 0.00087	< 0.14	< 0.0025	< 0.0011	< 0.00081	< 0.13	< 0.00094	< 0.035	< 0.0012	< 0.0015
< 0.0013	< 0.00087	< 0.14	0.0039	< 0.0011	< 0.00081	< 0.13	< 0.00093	< 0.035	< 0.0012	< 0.0015
< 0.0013	< 0.00089	< 0.14	< 0.0025	< 0.0011	< 0.00082	< 0.13	< 0.00095	< 0.049	< 0.0012	< 0.0015
< 0.0013	< 0.00089	< 0.14	< 0.0025	< 0.0011	< 0.00082	< 0.13	< 0.00095	< 0.036	< 0.0012	< 0.0015
< 0.0013	< 0.00087	< 0.14	< 0.0025	< 0.0011	< 0.00081	< 0.13	< 0.00093	< 0.044	< 0.0012	0.0018
< 0.0013	< 0.00087	< 0.14	< 0.0025	0.0022	< 0.00081	< 0.13	< 0.00094	< 0.07	< 0.0012	0.0022
< 0.0013	< 0.00088	< 0.14	< 0.0025	< 0.0011	< 0.00082	< 0.13	< 0.00094	< 0.07	< 0.0012	< 0.0015
< 0.0013	< 0.00088	< 0.14	0.0029	0.0026	< 0.00082	< 0.13	< 0.00095	0.063	< 0.0012	0.0058
< 0.0013	< 0.00089	< 0.14	< 0.0025	0.0011	< 0.00083	< 0.13	< 0.00096	0.046	< 0.0012	0.0022
< 0.0013	< 0.00089	< 0.14	< 0.0025	< 0.0011	< 0.00083	< 0.13	< 0.00095	< 0.036	< 0.0012	< 0.0015
< 0.0015	< 0.00098	< 0.16	< 0.0028	< 0.0012	< 0.00091	< 0.14	< 0.0011	< 0.039	< 0.0013	< 0.0017
< 0.0013	< 0.00088	< 0.14	0.0043	< 0.0011	< 0.00082	< 0.13	< 0.00094	0.054	< 0.0012	< 0.0015

Table 2
Phase B Investigation Results - SVOCs

Fluorene 86-73-7 mg/kg	Hexachlorobenzene 118-74-1 mg/kg	Indeno(1,2,3-cd)pyrene 193-39-5 mg/kg	Naphthalene 91-20-3 mg/kg	Nitrobenzene 98-95-3 mg/kg	Octachlorostyrene 29082-74-4 mg/kg	Phenanthrene 85-01-8 mg/kg	Pyrene 129-00-0 mg/kg	Pyridine 110-86-1 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00072	< 0.00088	< 0.00093	< 0.00088	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.028
< 0.00073	< 0.00089	< 0.00094	0.0040	< 0.0019	< 0.0037	0.02	0.0054	< 0.028
< 0.0011	0.014	< 0.0014	< 0.0013	< 0.0028	< 0.0054	< 0.0028	< 0.0015	< 0.041
< 0.00073	< 0.00088	< 0.00093	< 0.00089	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.028
< 0.00069	3.6	0.0044	0.0024	< 0.0018	0.53	0.015	0.013	< 0.027
< 0.00074	0.0058	< 0.00094	< 0.00090	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.029
< 0.00092	< 0.0012	< 0.0012	< 0.0012	< 0.0024	< 0.0046	< 0.0024	< 0.0013	< 0.036
< 0.00073	0.011	< 0.00093	< 0.00089	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.028
< 0.00073	< 0.00088	< 0.00093	< 0.00089	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.028
< 0.00074	< 0.00090	< 0.00095	< 0.00090	< 0.0019	< 0.0038	< 0.0019	< 0.0011	< 0.029
< 0.00074	< 0.00090	< 0.00095	< 0.00090	< 0.0019	< 0.0038	< 0.0019	< 0.0011	< 0.029
< 0.00072	0.029	< 0.00093	< 0.00088	< 0.0019	< 0.0037	0.0021	0.0018	< 0.028
< 0.00073	0.036	< 0.00093	< 0.00089	< 0.0019	0.0075	0.0029	0.0018	< 0.028
< 0.00073	< 0.00089	< 0.00094	< 0.00090	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.029
< 0.00074	< 0.00090	< 0.00095	0.0015	< 0.0019	< 0.0038	0.0084	0.0036	< 0.029
< 0.00074	0.0048	< 0.00095	< 0.00091	< 0.0019	< 0.0038	0.0033	0.0015	< 0.029
< 0.00074	< 0.00090	< 0.00095	< 0.00091	< 0.0019	< 0.0038	< 0.0019	< 0.0011	< 0.029
< 0.00082	< 0.00099	< 0.0011	< 0.0010	< 0.0021	< 0.0041	< 0.0021	< 0.0012	< 0.032
< 0.00073	< 0.00089	< 0.00094	< 0.00089	< 0.0019	< 0.0037	< 0.0019	< 0.0011	< 0.029

Table 2
Phase B Investigation Results - TPHs

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Analyte	Oil Range Organics	Total petroleum hydrocarbon-diesel
						CAS_RN Units	TPH-MOTOR mg/kg	TPH-diesel mg/kg
Lab Report	report_result_text	report_result_text						
RSA07-19B	RSA07	10/12/2009	19	20.5	ft	R0905829	< 33	< 33
RSA07-29B	RSA07	10/12/2009	29	30.5	ft	R0905829	< 33	< 33
RSA07-47B	RSA07	10/12/2009	47	48.5	ft	R0905829	< 48	< 48
RSA07-9B	RSA07	10/12/2009	9	10.5	ft	R0905829	< 33	< 33
RSA08-11.5B	RSA08	9/14/2009	11.5	13	ft	R0905218	< 33	< 33
RSA08-21.5B	RSA08	9/14/2009	21.5	23	ft	R0905218	< 33	< 33
RSA08-43B	RSA08	9/14/2009	43	43.5	ft	R0905218	< 37	< 37
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	R0905829	< 31	< 31
SA137-15B	SA137	10/9/2009	15	16.5	ft	R0905829	< 33	< 33
SA137-31B	SA137	10/9/2009	31	32.5	ft	R0905829	< 41	< 41
SA141009-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 33	< 33
SA141-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 33	< 33
SA141-24B	SA141	10/15/2009	24	25.5	ft	R0905882	< 33	< 33
SA141-30B	SA141	10/15/2009	30	31.5	ft	R0905882	< 33	< 33
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 33	< 33
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 33	< 33
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	R0905963	< 33	< 33
SA142-51B	SA142	10/16/2009	51	52.5	ft	R0905963	< 33	< 33
SA171-15B	SA171	10/19/2009	15	16.5	ft	R0905963	< 34	< 34
SA171-30B	SA171	10/19/2009	30	31.5	ft	R0905963	< 33	< 33
SA171-41B	SA171	10/19/2009	41	42.5	ft	R0905963	< 37	< 37
SA171-5B	SA171	10/19/2009	5	6.5	ft	R0905963	< 33	< 33

Table 2
Phase B Investigation Results - VOCs

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	Analyte	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
							CAS_RN Units	630-20-6 mg/kg	71-55-6 mg/kg	79-34-5 mg/kg	79-00-5 mg/kg	75-34-3 mg/kg	75-35-4 mg/kg	563-58-6 mg/kg
							report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSA07-19B	RSA07	10/12/2009	19	20.5	ft	R0905829	< 0.00031	< 0.00023	< 0.00043	< 0.00063	< 0.00050	< 0.00040	< 0.00043	
RSA07-29B	RSA07	10/12/2009	29	30.5	ft	R0905829	< 0.00030	< 0.00023	< 0.00043	< 0.00063	< 0.00050	< 0.00040	< 0.00043	
RSA07-47B	RSA07	10/12/2009	47	48.5	ft	R0905829	< 0.00044	< 0.00033	< 0.00063	< 0.00091	< 0.00073	< 0.00058	< 0.00063	
RSA07-9B	RSA07	10/12/2009	9	10.5	ft	R0905829	< 0.00027	< 0.00021	< 0.00039	< 0.00056	< 0.00045	< 0.00036	< 0.00039	
RSA08-11.5B	RSA08	9/14/2009	11.5	13	ft	R0905218	< 0.00028	< 0.00021	< 0.0004	< 0.00058	< 0.00046	< 0.00037	< 0.0004	
RSA08-21.5B	RSA08	9/14/2009	21.5	23	ft	R0905218	< 0.00037	< 0.00028	< 0.00053	< 0.00076	< 0.00061	< 0.00049	< 0.00053	
RSA08-43B	RSA08	9/14/2009	43	43.5	ft	R0905218	< 0.00035	< 0.00027	< 0.0005	< 0.00073	< 0.00058	< 0.00047	< 0.0005	
SA108-20B	SA108	10/16/2009	20	21.5	ft	R0905963	< 0.00040	< 0.00030	< 0.00057	< 0.00082	< 0.00065	< 0.00053	< 0.00057	
SA108-30B	SA108	10/16/2009	30	31.5	ft	R0905963	< 0.00034	< 0.00026	< 0.00049	< 0.00071	< 0.00056	< 0.00045	< 0.00049	
SA108-45B	SA108	10/16/2009	45	46.5	ft	R0905963	< 0.00035	< 0.00026	< 0.00050	< 0.00072	< 0.00057	< 0.00046	< 0.00050	
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	R0905829	< 0.00055	< 0.00041	< 0.00078	< 0.0012	< 0.00089	< 0.00072	< 0.00078	
SA137-15B	SA137	10/9/2009	15	16.5	ft	R0905829	< 0.00031	< 0.00023	< 0.00044	< 0.00064	< 0.00051	< 0.00041	< 0.00044	
SA137-31B	SA137	10/9/2009	31	32.5	ft	R0905829	< 0.00044	< 0.00033	< 0.00063	< 0.00091	< 0.00072	< 0.00058	< 0.00063	
SA139-0.5B	SA139	8/20/2009	0.5	2	ft	R0904746	< 0.00030	< 0.00023	< 0.00043	< 0.00063	< 0.00050	< 0.00040	< 0.00043	
SA139009-25B	SA139	8/20/2009	25	26.5	ft	R0904746	< 0.00041	< 0.00031	< 0.00059	< 0.00085	< 0.00067	< 0.00054	< 0.00059	
SA139-10B	SA139	8/20/2009	10	11.5	ft	R0904746	< 0.00027	< 0.00021	< 0.00039	< 0.00056	< 0.00045	< 0.00036	< 0.00039	
SA139-25B	SA139	8/20/2009	25	26.5	ft	R0904746	< 0.00043	< 0.00032	< 0.00061	< 0.00088	< 0.00070	< 0.00056	< 0.00061	
SA139-35B	SA139	8/20/2009	35	36.5	ft	R0904746	< 0.00033	< 0.00025	< 0.00047	< 0.00068	< 0.00054	< 0.00043	< 0.00047	
SA141009-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 0.00033	< 0.00025	< 0.00047	< 0.00067	< 0.00053	< 0.00043	< 0.00047	
SA141-14B	SA141	10/15/2009	14	15.5	ft	R0905882	< 0.00030	< 0.00022	< 0.00042	< 0.00061	< 0.00048	< 0.00039	< 0.00042	
SA141-24B	SA141	10/15/2009	24	25.5	ft	R0905882	< 0.00029	< 0.00022	< 0.00041	< 0.00060	< 0.00047	< 0.00038	< 0.00041	
SA141-30B	SA141	10/15/2009	30	31.5	ft	R0905882	< 0.00043	< 0.00032	< 0.00061	< 0.00088	< 0.00070	< 0.00056	< 0.00061	
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 0.00032	< 0.00024	< 0.00045	< 0.00065	< 0.00052	< 0.00042	< 0.00045	
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	< 0.00029	< 0.00022	< 0.00041	< 0.00059	< 0.00047	< 0.00038	< 0.00041	
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	R0905963	< 0.00024	< 0.00018	< 0.00034	< 0.00050	< 0.00039	< 0.00032	< 0.00034	
SA142-51B	SA142	10/16/2009	51	52.5	ft	R0905963	< 0.00036	< 0.00027	< 0.00051	< 0.00074	< 0.00059	< 0.00047	< 0.00051	
SA143009-50B	SA143	10/15/2009	50	51.5	ft	R0905882	< 0.00030	< 0.00023	< 0.00043	< 0.00062	< 0.00049	< 0.00040	< 0.00043	
SA143-24B	SA143	10/15/2009	24	25.5	ft	R0905882	< 0.00029	< 0.00022	< 0.00041	< 0.00060	< 0.00048	< 0.00038	< 0.00041	
SA143-34B	SA143	10/15/2009	34	34.5	ft	R0905882	< 0.00029	< 0.00022	< 0.00041	< 0.00059	< 0.00047	< 0.00038	< 0.00041	
SA143-50B	SA143	10/15/2009	50	51.5	ft	R0905882	< 0.00029	< 0.00022	< 0.00042	< 0.00060	< 0.00048	< 0.00039	< 0.00042	
SA149009-45B	SA149	10/21/2009	45	46.5	ft	R0906024	< 0.00041	< 0.00031	< 0.00058	< 0.00084	< 0.00067	< 0.00054	< 0.00058	
SA149-22B	SA149	10/21/2009	22	23.5	ft	R0906024	< 0.00031	< 0.00023	< 0.00044	< 0.00063	< 0.00050	< 0.00040	< 0.00044	
SA149-32B	SA149	10/21/2009	32	33.5	ft	R0906024	< 0.00031	< 0.00023	< 0.00044	< 0.00063	< 0.00050	< 0.00040	< 0.00044	
SA149-45B	SA149	10/21/2009	45	46.5	ft	R0906024	< 0.00035	< 0.00026	< 0.00050	< 0.00072	< 0.00057	< 0.00046	< 0.00050	
SA171-15B	SA171	10/19/2009	15	16.5	ft	R0905963	< 0.00027	< 0.00020	< 0.00038	< 0.00055	< 0.00044	< 0.00035	< 0.00038	
SA171-30B	SA171	10/19/2009	30	31.5	ft	R0905963	< 0.00029	< 0.00022	< 0.00041	< 0.00060	< 0.00047	< 0.00038	< 0.00041	
SA171-41B	SA171	10/19/2009	41	42.5	ft	R0905963	< 0.00034	< 0.00025	< 0.00048	< 0.00069	< 0.00055	< 0.00044	< 0.00048	
SA171-5B	SA171	10/19/2009	5	6.5	ft	R0905963	< 0.00030	< 0.00023	< 0.00043	< 0.00062	< 0.00049	< 0.00040	< 0.00043	
SA52-15B	SA52	10/21/2009	15	16.5	ft	R0906024	< 0.00050	< 0.00037	< 0.00071	< 0.0011	< 0.00081	< 0.00065	< 0.00071	
SA52-28B	SA52	10/21/2009	28	29.5	ft	R0906024	< 0.00030	< 0.00023	< 0.00043	< 0.00061	< 0.00049	< 0.00039	< 0.00043	
SA52-43B	SA52	10/21/2009	43	44.5	ft	R0906024	< 0.00053	< 0.00040	< 0.00076	< 0.0011	< 0.00087	< 0.00070	< 0.00076	

Table 2
Phase B Investigation Results - VOCs

1,2,3-Trichlorobenzene 87-61-6 mg/kg	1,2,3-Trichloropropane 96-18-4 mg/kg	1,2,4-Trichlorobenzene 120-82-1 mg/kg	1,2,4-Trimethylbenzene 95-63-6 mg/kg	1,2-Dibromo-3-chloropropane 96-12-8 mg/kg	1,2-Dichlorobenzene 95-50-1 mg/kg	1,2-Dichloroethane 107-06-2 mg/kg	1,2-Dichloropropane 78-87-5 mg/kg	1,3,5-Trimethylbenzene 108-67-8 mg/kg	1,3-Dichlorobenzene 541-73-1 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00078	< 0.00057	< 0.00096	< 0.00067	< 0.00075	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.00077	< 0.00057	< 0.00096	< 0.00067	< 0.00074	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.0012	< 0.00084	< 0.0014	< 0.00098	< 0.0011	< 0.00062	< 0.00055	< 0.00062	< 0.00082	< 0.00082
< 0.00069	< 0.00051	< 0.00086	< 0.00060	< 0.00067	< 0.00038	< 0.00034	< 0.00038	< 0.00050	< 0.00050
< 0.00072	< 0.00053	< 0.00089	< 0.00062	< 0.00069	< 0.00039	< 0.00035	< 0.00039	< 0.00052	< 0.00052
< 0.00095	< 0.0007	< 0.0012	< 0.00082	< 0.00091	< 0.00051	< 0.00046	< 0.00051	< 0.00068	< 0.00068
< 0.0009	< 0.00067	< 0.0012	< 0.00078	< 0.00087	< 0.00049	< 0.00044	< 0.00049	< 0.00065	< 0.00065
< 0.0011	< 0.00075	< 0.0013	< 0.00088	< 0.00098	< 0.00055	< 0.00050	< 0.00055	< 0.00074	< 0.00074
< 0.00088	< 0.00065	< 0.0011	< 0.00076	< 0.00084	< 0.00048	< 0.00043	< 0.00048	< 0.00064	< 0.00064
< 0.00089	< 0.00066	< 0.0011	< 0.00077	< 0.00086	< 0.00049	< 0.00044	< 0.00049	< 0.00065	< 0.00065
< 0.0014	< 0.0011	< 0.0018	< 0.0012	< 0.0014	< 0.00076	< 0.00068	< 0.00076	< 0.0011	< 0.0011
< 0.00079	< 0.00058	< 0.00097	< 0.00068	< 0.00076	< 0.00043	< 0.00039	< 0.00043	< 0.00057	< 0.00057
0.015	< 0.00083	< 0.0014	< 0.00097	< 0.0011	0.0011	< 0.00055	< 0.00061	< 0.00082	0.00083
< 0.00078	< 0.00057	< 0.00096	< 0.00067	< 0.00074	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.0011	< 0.00078	< 0.0013	< 0.00091	< 0.0011	< 0.00057	< 0.00051	< 0.00057	< 0.00076	< 0.00076
< 0.00070	< 0.00051	< 0.00086	< 0.00060	< 0.00067	< 0.00038	< 0.00034	< 0.00038	< 0.00050	< 0.00050
< 0.0011	< 0.00080	< 0.0014	< 0.00094	< 0.0011	< 0.00059	< 0.00053	< 0.00059	< 0.00079	< 0.00079
< 0.00084	< 0.00062	< 0.0011	< 0.00072	< 0.00080	< 0.00046	< 0.00041	< 0.00046	< 0.00061	< 0.00061
< 0.00083	< 0.00062	< 0.0011	< 0.00072	< 0.00080	< 0.00045	< 0.00041	< 0.00045	< 0.00060	< 0.00060
< 0.00076	< 0.00056	< 0.00093	< 0.00065	< 0.00072	< 0.00041	< 0.00037	< 0.00041	< 0.00055	< 0.00055
< 0.00074	< 0.00054	< 0.00091	< 0.00064	< 0.00071	< 0.00040	< 0.00036	< 0.00040	< 0.00053	< 0.00053
< 0.0011	< 0.00081	< 0.0014	< 0.00094	< 0.0011	< 0.00059	< 0.00053	< 0.00059	< 0.00079	< 0.00079
< 0.00081	< 0.00060	< 0.0010	< 0.00070	< 0.00077	< 0.00044	< 0.00040	< 0.00044	< 0.00058	< 0.00058
< 0.00073	< 0.00054	< 0.00091	< 0.00063	< 0.00070	< 0.00040	< 0.00036	< 0.00040	< 0.00053	< 0.00053
< 0.00061	< 0.00045	< 0.00076	< 0.00053	< 0.00059	< 0.00034	< 0.00030	< 0.00034	< 0.00045	< 0.00045
< 0.00092	< 0.00068	< 0.0012	< 0.00079	< 0.00088	< 0.00050	< 0.00045	< 0.00050	< 0.00066	< 0.00066
< 0.00077	< 0.00057	< 0.00095	< 0.00066	< 0.00074	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.00074	< 0.00055	< 0.00092	< 0.00064	< 0.00071	< 0.00040	< 0.00036	< 0.00040	< 0.00054	< 0.00054
< 0.00073	< 0.00054	< 0.00090	< 0.00063	< 0.00070	< 0.00040	< 0.00036	< 0.00040	< 0.00053	< 0.00053
< 0.00075	< 0.00055	< 0.00092	< 0.00064	< 0.00072	< 0.00041	< 0.00037	< 0.00041	< 0.00054	< 0.00054
< 0.0011	< 0.00077	< 0.0013	< 0.00090	< 0.0010	< 0.00057	< 0.00051	< 0.00057	< 0.00076	< 0.00076
< 0.00078	< 0.00058	< 0.00096	< 0.00067	< 0.00075	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.00078	< 0.00058	< 0.00096	< 0.00067	< 0.00075	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.00089	< 0.00066	< 0.0011	< 0.00077	< 0.00086	< 0.00049	< 0.00044	< 0.00049	< 0.00065	< 0.00065
< 0.00068	< 0.00050	< 0.00084	< 0.00059	< 0.00065	< 0.00037	< 0.00033	< 0.00037	< 0.00049	< 0.00049
< 0.00074	< 0.00055	< 0.00091	< 0.00064	< 0.00071	< 0.00040	< 0.00036	< 0.00040	< 0.00054	< 0.00054
< 0.00086	< 0.00063	< 0.0011	< 0.00074	< 0.00082	< 0.00047	< 0.00042	< 0.00047	< 0.00062	< 0.00062
< 0.00077	< 0.00057	< 0.00095	< 0.00066	< 0.00074	< 0.00042	< 0.00038	< 0.00042	< 0.00056	< 0.00056
< 0.0013	< 0.00094	< 0.0016	< 0.0011	< 0.0013	< 0.00069	< 0.00062	< 0.00069	< 0.00092	< 0.00092
< 0.00076	< 0.00056	< 0.00094	< 0.00066	< 0.00073	< 0.00042	< 0.00037	< 0.00042	< 0.00055	< 0.00055
< 0.0014	< 0.0010	< 0.0017	< 0.0012	< 0.0013	< 0.00074	< 0.00066	< 0.00074	< 0.00098	< 0.00098

Table 2
Phase B Investigation Results - VOCs

1,3-Dichloropropane 142-28-9 mg/kg	1,4-Dichlorobenzene 106-46-7 mg/kg	2,2-Dichloropropane 594-20-7 mg/kg	2-Butanone 78-93-3 mg/kg	2-Chlorotoluene 95-49-8 mg/kg	2-Hexanone 591-78-6 mg/kg	2-Methoxy-2-methyl-butane 994-05-8 mg/kg	4-Chlorotoluene 106-43-4 mg/kg	4-Isopropyltoluene 99-87-6 mg/kg	4-Methyl-2-pentanone 108-10-1 mg/kg	Acetone 67-64-1 mg/kg	Benzene 71-43-2 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00039	< 0.00076	< 0.00036	0.0013	< 0.00066	< 0.00077	< 0.00012	< 0.00058	< 0.00069	< 0.00070	0.031	< 0.00050
< 0.00039	< 0.00075	< 0.00036	< 0.00082	< 0.00066	< 0.00076	< 0.00012	< 0.00058	< 0.00069	< 0.00070	< 0.016	< 0.00050
< 0.00057	< 0.0011	< 0.00052	0.0014	< 0.00096	< 0.0012	< 0.00018	< 0.00085	< 0.0011	< 0.0011	< 0.011	< 0.00073
< 0.00035	< 0.00067	< 0.00032	< 0.00073	< 0.00059	< 0.00068	< 0.00011	< 0.00052	< 0.00062	< 0.00063	< 0.0025	< 0.00045
< 0.00036	< 0.0007	< 0.00033	0.0019	< 0.00061	< 0.00071	< 0.00011	< 0.00054	< 0.00064	< 0.00065	< 0.0086	< 0.00046
< 0.00048	< 0.00092	< 0.00044	0.0022	< 0.0008	< 0.00093	< 0.00015	< 0.00071	< 0.00084	< 0.00085	< 0.002	< 0.00061
< 0.00045	< 0.00088	< 0.00042	0.00096	< 0.00077	< 0.00089	< 0.00014	< 0.00068	< 0.0008	< 0.00082	< 0.0019	< 0.00058
< 0.00051	< 0.00099	< 0.00047	< 0.0011	< 0.00087	< 0.0011	< 0.00016	< 0.00077	< 0.00091	< 0.00092	< 0.016	< 0.00065
< 0.00044	< 0.00085	< 0.00041	< 0.00093	< 0.00074	< 0.00087	< 0.00014	< 0.00066	< 0.00078	< 0.00079	< 0.013	< 0.00056
< 0.00045	< 0.00087	< 0.00041	< 0.00094	< 0.00076	< 0.00088	< 0.00014	< 0.00067	< 0.00079	< 0.00081	< 0.011	< 0.00057
< 0.00070	< 0.0014	< 0.00064	0.0023	< 0.0012	< 0.0014	< 0.00022	< 0.0011	< 0.0013	< 0.0013	0.047	< 0.00089
< 0.00040	< 0.00077	< 0.00036	< 0.00083	< 0.00067	< 0.00078	< 0.00012	< 0.00059	< 0.00070	< 0.00071	< 0.0033	< 0.00051
< 0.00057	0.0013	< 0.00052	0.0018	< 0.00096	< 0.0012	< 0.00018	< 0.00085	< 0.0010	< 0.0011	0.03	< 0.00072
< 0.00039	< 0.00075	< 0.00036	< 0.00082	< 0.00066	< 0.00076	< 0.00012	< 0.00058	< 0.00069	< 0.00070	< 0.012	< 0.00050
< 0.00053	< 0.0011	< 0.00049	0.0020	< 0.00089	< 0.0011	< 0.00017	< 0.00079	< 0.00094	< 0.00095	< 0.018	< 0.00067
< 0.00035	< 0.00068	< 0.00032	0.0019	< 0.00059	< 0.00069	< 0.00011	< 0.00052	< 0.00062	< 0.00063	< 0.018	< 0.00045
< 0.00055	< 0.0011	< 0.00050	0.0018	< 0.00092	< 0.0011	< 0.00017	< 0.00082	< 0.00097	< 0.00098	< 0.01	< 0.00070
< 0.00042	< 0.00081	< 0.00039	< 0.00088	< 0.00071	< 0.00083	< 0.00013	< 0.00063	< 0.00074	< 0.00076	< 0.016	< 0.00054
< 0.00042	< 0.00081	< 0.00039	< 0.00088	< 0.00071	< 0.00082	< 0.00013	< 0.00063	< 0.00074	< 0.00075	< 0.0071	< 0.00053
< 0.00038	< 0.00073	< 0.00035	< 0.00080	< 0.00064	< 0.00074	< 0.00012	< 0.00057	< 0.00067	< 0.00068	< 0.0068	< 0.00048
< 0.00037	< 0.00072	< 0.00034	< 0.00078	< 0.00063	< 0.00073	< 0.00012	< 0.00056	< 0.00066	< 0.00067	< 0.0052	< 0.00047
< 0.00055	< 0.0011	< 0.00050	< 0.0012	< 0.00093	< 0.0011	< 0.00017	< 0.00082	< 0.00097	< 0.00099	< 0.0092	< 0.00070
< 0.00041	< 0.00079	< 0.00037	< 0.00085	< 0.00068	< 0.00080	< 0.00013	< 0.00061	< 0.00072	< 0.00073	0.019	< 0.00052
< 0.00037	< 0.00071	< 0.00034	< 0.00077	< 0.00062	< 0.00072	< 0.00012	< 0.00055	< 0.00065	< 0.00066	< 0.017	< 0.00047
< 0.00031	< 0.00060	< 0.00028	< 0.00065	< 0.00052	< 0.00061	< 0.000094	< 0.00046	< 0.00055	< 0.00056	0.019	< 0.00039
< 0.00046	< 0.00089	< 0.00042	< 0.00097	< 0.00078	< 0.00091	< 0.00014	< 0.00069	< 0.00082	< 0.00083	0.034	< 0.00059
< 0.00039	< 0.00075	< 0.00036	0.0015	< 0.00065	< 0.00076	< 0.00012	< 0.00058	< 0.00068	< 0.00069	0.038	< 0.00049
< 0.00037	< 0.00072	< 0.00034	< 0.00078	< 0.00063	< 0.00073	< 0.00012	< 0.00056	< 0.00066	< 0.00067	0.073	< 0.00048
< 0.00037	< 0.00071	< 0.00034	< 0.00077	< 0.00062	< 0.00072	< 0.00012	< 0.00055	< 0.00065	< 0.00066	< 0.0036	< 0.00047
< 0.00038	< 0.00073	< 0.00034	< 0.00079	< 0.00063	< 0.00074	< 0.00012	< 0.00056	< 0.00066	< 0.00067	< 0.0059	< 0.00048
< 0.00053	< 0.0011	< 0.00048	< 0.0011	< 0.00089	< 0.0011	< 0.00016	< 0.00079	< 0.00093	< 0.00094	< 0.0022	< 0.00067
< 0.00039	< 0.00076	< 0.00036	< 0.00082	< 0.00066	< 0.00077	< 0.00012	< 0.00059	< 0.00069	< 0.00070	< 0.0017	< 0.00050
< 0.00039	< 0.00076	< 0.00036	< 0.00082	< 0.00066	< 0.00077	< 0.00012	< 0.00059	< 0.00069	< 0.00070	< 0.0017	< 0.00050
< 0.00045	< 0.00087	< 0.00041	0.0012	< 0.00076	< 0.00088	< 0.00014	< 0.00067	< 0.00079	< 0.00081	< 0.012	< 0.00057
< 0.00034	< 0.00066	< 0.00031	< 0.00072	< 0.00058	< 0.00067	< 0.00011	< 0.00051	< 0.00060	< 0.00061	< 0.01	< 0.00044
< 0.00037	< 0.00072	< 0.00034	< 0.00078	< 0.00063	< 0.00073	< 0.00012	< 0.00056	< 0.00066	< 0.00067	0.047	< 0.00047
< 0.00043	< 0.00083	< 0.00040	0.00095	< 0.00073	< 0.00085	< 0.00014	< 0.00064	< 0.00076	< 0.00078	< 0.0018	< 0.00055
< 0.00039	< 0.00075	< 0.00036	< 0.00081	< 0.00065	< 0.00076	< 0.00012	< 0.00058	< 0.00068	< 0.00070	< 0.0084	< 0.00049
< 0.00064	< 0.0013	< 0.00058	< 0.0014	< 0.0011	< 0.0013	< 0.00020	< 0.00095	< 0.0012	< 0.0012	< 0.0027	< 0.00081
< 0.00038	< 0.00074	< 0.00035	< 0.00080	< 0.00065	< 0.00075	< 0.00012	< 0.00057	< 0.00068	< 0.00069	< 0.0016	< 0.00049
< 0.00068	< 0.0014	< 0.00062	< 0.0015	< 0.0012	< 0.0014	< 0.00021	< 0.0011	< 0.0013	< 0.0013	< 0.0029	< 0.00087

Table 2
Phase B Investigation Results - VOCs

Bromobenzene 108-86-1 mg/kg	Bromochloromethane 74-97-5 mg/kg	Bromodichloromethane 75-27-4 mg/kg	Bromoform 75-25-2 mg/kg	Bromomethane 74-83-9 mg/kg	Carbon tetrachloride 56-23-5 mg/kg	Chlorobenzene 108-90-7 mg/kg	Chloroethane 75-00-3 mg/kg	Chloroform 67-66-3 mg/kg	Chloromethane 74-87-3 mg/kg	cis-1,2-Dichloroethene 156-59-2 mg/kg	cis-1,3-Dichloropropene 10061-01-5 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00044	< 0.00044	< 0.00055	< 0.00046	< 0.00084	< 0.00049	< 0.00052	< 0.00052	0.0028	< 0.00062	< 0.00034	< 0.00037
< 0.00044	< 0.00044	< 0.00055	< 0.00045	< 0.00084	< 0.00049	< 0.00052	< 0.00052	0.0047	< 0.00061	< 0.00034	< 0.00037
< 0.00065	< 0.00065	< 0.00080	< 0.00066	< 0.0013	< 0.00071	< 0.00076	< 0.00076	0.53	< 0.00090	< 0.00049	< 0.00054
< 0.00040	< 0.00040	< 0.00049	< 0.00041	< 0.00075	< 0.00044	< 0.00046	< 0.00046	0.0012	< 0.00055	< 0.00030	< 0.00033
< 0.00041	< 0.00041	< 0.00051	< 0.00042	< 0.00078	< 0.00045	< 0.00048	< 0.00048	< 0.00043	< 0.00057	< 0.00031	< 0.00034
< 0.00054	< 0.00054	< 0.00067	< 0.00055	< 0.0011	< 0.00059	< 0.00063	< 0.00063	< 0.00057	< 0.00075	< 0.00041	< 0.00045
< 0.00052	< 0.00052	< 0.00064	< 0.00053	< 0.00098	< 0.00057	< 0.0006	< 0.0006	< 0.00054	< 0.00072	< 0.00039	< 0.00043
< 0.00058	< 0.00058	< 0.00072	< 0.00060	< 0.0011	< 0.00064	< 0.00068	< 0.00068	< 0.00061	< 0.00081	< 0.00044	< 0.00048
< 0.00050	< 0.00050	< 0.00062	< 0.00051	< 0.00095	< 0.00055	< 0.00059	< 0.00059	< 0.00053	< 0.00070	< 0.00038	< 0.00042
< 0.00051	< 0.00051	< 0.00063	< 0.00052	< 0.00097	< 0.00056	< 0.00060	< 0.00060	< 0.00054	< 0.00071	< 0.00039	< 0.00042
< 0.00080	< 0.00080	< 0.00099	< 0.00082	< 0.0016	< 0.00087	< 0.00093	< 0.00093	< 0.00084	< 0.0012	< 0.00060	< 0.00066
< 0.00045	< 0.00045	< 0.00056	< 0.00046	< 0.00085	< 0.00050	< 0.00053	< 0.00053	0.0017	< 0.00063	< 0.00034	< 0.00038
< 0.00064	< 0.00064	< 0.00080	< 0.00066	< 0.0013	< 0.00071	< 0.00075	< 0.00075	0.062	< 0.00089	< 0.00049	< 0.00054
< 0.00044	< 0.00044	< 0.00055	< 0.00045	< 0.00084	< 0.00049	< 0.00052	< 0.00052	< 0.00047	< 0.00061	< 0.00034	< 0.00037
< 0.00060	< 0.00060	< 0.00075	< 0.00062	< 0.0012	< 0.00066	< 0.00070	< 0.00070	< 0.00063	< 0.00084	< 0.00046	< 0.00050
< 0.00040	< 0.00040	< 0.00049	< 0.00041	< 0.00075	< 0.00044	< 0.00047	< 0.00047	< 0.00042	< 0.00055	< 0.00030	< 0.00033
< 0.00062	< 0.00062	< 0.00077	< 0.00064	< 0.0012	< 0.00068	< 0.00073	< 0.00073	< 0.00065	< 0.00086	< 0.00047	< 0.00052
< 0.00048	< 0.00048	< 0.00059	< 0.00049	< 0.00091	< 0.00052	< 0.00056	< 0.00056	0.01	< 0.00066	< 0.00036	< 0.00040
< 0.00048	< 0.00048	< 0.00059	< 0.00049	< 0.00090	< 0.00052	< 0.00056	< 0.00056	0.00096	< 0.00066	< 0.00036	< 0.00040
< 0.00043	< 0.00043	< 0.00054	< 0.00044	< 0.00082	< 0.00047	< 0.00051	< 0.00051	0.0015	< 0.00060	< 0.00033	< 0.00036
< 0.00042	< 0.00042	< 0.00052	< 0.00043	< 0.00080	< 0.00046	< 0.00049	< 0.00049	0.0030	< 0.00059	< 0.00032	< 0.00035
< 0.00062	< 0.00062	< 0.00078	< 0.00064	< 0.0012	< 0.00069	< 0.00073	< 0.00073	0.0022	< 0.00087	< 0.00047	< 0.00052
< 0.00046	< 0.00046	< 0.00057	< 0.00047	< 0.00087	< 0.00051	< 0.00054	< 0.00054	< 0.00048	< 0.00064	< 0.00035	< 0.00038
< 0.00042	< 0.00042	< 0.00052	< 0.00043	< 0.00080	< 0.00046	< 0.00049	< 0.00049	< 0.00044	< 0.00058	< 0.00032	< 0.00035
< 0.00035	< 0.00035	< 0.00044	< 0.00036	< 0.00067	< 0.00039	< 0.00041	< 0.00041	< 0.00037	< 0.00049	< 0.00027	< 0.00029
< 0.00052	< 0.00052	< 0.00065	< 0.00054	< 0.00099	< 0.00058	< 0.00061	< 0.00061	< 0.00055	< 0.00073	< 0.00040	< 0.00044
< 0.00044	< 0.00044	< 0.00055	< 0.00045	< 0.00083	< 0.00048	< 0.00051	< 0.00051	0.0021	< 0.00061	< 0.00033	< 0.00037
< 0.00042	< 0.00042	< 0.00053	< 0.00044	< 0.00080	< 0.00047	< 0.00050	< 0.00050	< 0.00045	< 0.00059	< 0.00032	< 0.00035
< 0.00042	< 0.00042	< 0.00052	< 0.00043	< 0.00079	< 0.00046	< 0.00049	< 0.00049	< 0.00044	< 0.00058	< 0.00032	< 0.00035
< 0.00043	< 0.00043	< 0.00053	< 0.00044	< 0.00081	< 0.00047	< 0.00050	< 0.00050	0.0016	< 0.00059	< 0.00032	< 0.00035
< 0.00060	< 0.00060	< 0.00074	< 0.00061	< 0.0012	< 0.00066	< 0.00070	< 0.00070	0.078	< 0.00083	< 0.00045	< 0.00050
< 0.00045	< 0.00045	< 0.00055	< 0.00046	< 0.00084	< 0.00049	< 0.00052	< 0.00052	0.00078	< 0.00062	< 0.00034	< 0.00037
< 0.00045	< 0.00045	< 0.00055	< 0.00046	< 0.00084	< 0.00049	< 0.00052	< 0.00052	< 0.00047	< 0.00062	< 0.00034	< 0.00037
< 0.00051	< 0.00051	< 0.00063	< 0.00052	< 0.00097	< 0.00056	< 0.00060	< 0.00060	0.04	< 0.00071	< 0.00039	< 0.00042
< 0.00039	< 0.00039	< 0.00048	< 0.00040	< 0.00074	< 0.00043	< 0.00045	< 0.00045	< 0.00041	< 0.00054	< 0.00030	< 0.00032
< 0.00042	< 0.00042	< 0.00053	< 0.00043	< 0.00080	< 0.00046	< 0.00050	< 0.00050	< 0.00044	< 0.00059	< 0.00032	< 0.00035
< 0.00049	< 0.00049	< 0.00061	< 0.00050	< 0.00093	< 0.00054	< 0.00057	< 0.00057	< 0.00063	< 0.00068	< 0.00037	< 0.00041
< 0.00044	< 0.00044	< 0.00055	< 0.00045	< 0.00083	< 0.00048	< 0.00051	< 0.00051	< 0.00046	< 0.00061	< 0.00033	< 0.00037
< 0.00073	< 0.00073	< 0.00090	< 0.00074	< 0.0014	< 0.00080	< 0.00085	< 0.00085	0.0018	< 0.0011	< 0.00055	< 0.00060
< 0.00044	< 0.00044	< 0.00054	< 0.00045	< 0.00083	< 0.00048	< 0.00051	< 0.00051	0.0036	< 0.00060	< 0.00033	< 0.00036
< 0.00077	< 0.00077	< 0.00096	< 0.00079	< 0.0015	< 0.00085	< 0.00091	< 0.00091	0.18	< 0.0011	< 0.00059	< 0.00064

Table 2
Phase B Investigation Results - VOCs

Dibromochloromethane 124-48-1 mg/kg	Dibromomethane 74-95-3 mg/kg	Dichlorodifluoromethane 75-71-8 mg/kg	Ethyl t-butyl ether 637-92-3 mg/kg	Ethylbenzene 100-41-4 mg/kg	Ethylene dibromide 106-93-4 mg/kg	Hexachlorobutadiene 87-68-3 mg/kg	isopropyl ether 108-20-3 mg/kg	Isopropylbenzene 98-82-8 mg/kg	m,p-Xylene m,p-Xylene mg/kg	Methyl tert butyl ether 1634-04-4 mg/kg	Methylene chloride 75-09-2 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00095	< 0.00033	< 0.00081	< 0.00026	< 0.00054	< 0.0010	< 0.00034	< 0.00041
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00095	< 0.00033	0.0024	< 0.00026	< 0.00054	< 0.0010	< 0.00034	< 0.00041
< 0.00052	< 0.00052	< 0.00082	< 0.00038	< 0.0014	< 0.00047	< 0.0012	< 0.00038	< 0.00079	< 0.0015	< 0.00049	0.0013
< 0.00032	< 0.00032	< 0.00050	< 0.00023	< 0.00085	< 0.00029	< 0.00072	< 0.00023	< 0.00048	< 0.00089	< 0.00030	< 0.00037
< 0.00033	< 0.00033	< 0.00052	< 0.00024	< 0.00088	< 0.0003	< 0.00075	< 0.00024	< 0.0005	< 0.00093	< 0.00031	< 0.00038
< 0.00044	< 0.00044	< 0.00068	< 0.00032	< 0.0012	< 0.0004	< 0.00099	< 0.00032	< 0.00066	< 0.0013	< 0.00041	< 0.0005
< 0.00042	< 0.00042	< 0.00065	< 0.0003	< 0.0011	< 0.00038	< 0.00094	< 0.0003	< 0.00063	< 0.0012	< 0.00039	< 0.00048
< 0.00047	< 0.00047	< 0.00074	< 0.00034	< 0.0013	< 0.00043	< 0.0011	< 0.00034	< 0.00071	< 0.0014	< 0.00044	< 0.00054
< 0.00041	< 0.00041	< 0.00064	< 0.00030	< 0.0011	< 0.00037	< 0.00091	< 0.00030	< 0.00061	< 0.0012	< 0.00038	< 0.00047
< 0.00041	< 0.00041	< 0.00065	< 0.00030	< 0.0011	< 0.00038	< 0.00093	< 0.00030	< 0.00062	< 0.0012	< 0.00039	< 0.00047
< 0.00064	< 0.00064	< 0.0011	< 0.00047	< 0.0018	< 0.00058	0.053	< 0.00047	< 0.00097	< 0.0018	< 0.00060	< 0.00074
< 0.00036	< 0.00036	< 0.00057	< 0.00027	< 0.00096	< 0.00033	0.0072	< 0.00027	< 0.00055	< 0.0011	< 0.00034	< 0.00042
< 0.00052	< 0.00052	< 0.00082	< 0.00038	< 0.0014	< 0.00047	0.27	< 0.00038	< 0.00079	< 0.0015	< 0.00049	< 0.00060
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00095	< 0.00033	< 0.00081	< 0.00026	< 0.00054	< 0.0010	< 0.00034	< 0.00041
< 0.00049	< 0.00049	< 0.00076	< 0.00035	< 0.0013	< 0.00044	< 0.0011	< 0.00035	< 0.00073	< 0.0014	< 0.00046	0.00095
< 0.00032	< 0.00032	< 0.00050	< 0.00024	< 0.00085	< 0.00029	< 0.00072	< 0.00024	< 0.00048	< 0.00090	< 0.00030	< 0.00037
< 0.00050	< 0.00050	< 0.00079	< 0.00037	< 0.0014	< 0.00046	< 0.0012	< 0.00037	< 0.00076	< 0.0014	< 0.00047	< 0.00058
< 0.00039	< 0.00039	< 0.00061	< 0.00028	< 0.0011	< 0.00035	< 0.00087	< 0.00028	< 0.00058	< 0.0011	< 0.00036	< 0.00044
< 0.00039	< 0.00039	< 0.00060	< 0.00028	< 0.0011	< 0.00035	< 0.00087	< 0.00028	< 0.00058	< 0.0011	< 0.00036	0.00082
< 0.00035	< 0.00035	< 0.00055	< 0.00026	< 0.00092	< 0.00032	< 0.00079	< 0.00026	< 0.00053	< 0.00097	< 0.00033	0.00098
< 0.00034	< 0.00034	< 0.00053	< 0.00025	< 0.00090	< 0.00031	< 0.00077	< 0.00025	< 0.00051	< 0.00095	< 0.00032	0.00045
< 0.00050	< 0.00050	< 0.00079	< 0.00037	< 0.0014	< 0.00046	< 0.0012	< 0.00037	< 0.00076	< 0.0015	< 0.00047	0.0012
< 0.00037	< 0.00037	< 0.00058	< 0.00027	< 0.00099	< 0.00034	< 0.00084	< 0.00027	< 0.00056	< 0.0011	< 0.00035	< 0.00043
< 0.00034	< 0.00034	< 0.00053	< 0.00025	< 0.00090	< 0.00031	< 0.00076	< 0.00025	< 0.00051	< 0.00095	< 0.00032	< 0.00039
< 0.00028	< 0.00028	< 0.00045	< 0.00021	< 0.00075	< 0.00026	< 0.00064	< 0.00021	< 0.00043	< 0.00079	< 0.00027	0.00036
< 0.00042	< 0.00042	< 0.00066	< 0.00031	< 0.0012	< 0.00039	< 0.00096	< 0.00031	< 0.00064	< 0.0012	< 0.00040	< 0.00049
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00094	< 0.00032	< 0.00080	< 0.00026	< 0.00054	< 0.00099	< 0.00033	0.00091
< 0.00034	< 0.00034	< 0.00054	< 0.00025	< 0.00091	< 0.00031	< 0.00077	< 0.00025	< 0.00052	< 0.00096	< 0.00032	0.00093
< 0.00034	< 0.00034	< 0.00053	< 0.00025	< 0.00089	< 0.00031	< 0.00076	< 0.00025	< 0.00051	< 0.00094	< 0.00032	< 0.00039
< 0.00034	< 0.00034	< 0.00054	< 0.00025	< 0.00091	< 0.00031	< 0.00078	< 0.00025	< 0.00052	< 0.00096	< 0.00032	< 0.00040
< 0.00048	< 0.00048	< 0.00076	< 0.00035	< 0.0013	< 0.00044	0.0012	< 0.00035	< 0.00073	< 0.0014	< 0.00045	0.0014
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00095	< 0.00033	< 0.00081	< 0.00026	< 0.00054	< 0.0011	< 0.00034	0.00055
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00095	< 0.00033	< 0.00081	< 0.00026	< 0.00054	< 0.0011	< 0.00034	0.00048
< 0.00041	< 0.00041	< 0.00065	< 0.00030	< 0.0011	< 0.00037	< 0.00093	< 0.00030	< 0.00062	< 0.0012	< 0.00039	0.0012
< 0.00031	< 0.00031	< 0.00049	< 0.00023	< 0.00083	< 0.00029	< 0.00071	< 0.00023	< 0.00047	< 0.00088	< 0.00030	< 0.00036
< 0.00034	< 0.00034	< 0.00054	< 0.00025	< 0.00090	< 0.00031	< 0.00077	< 0.00025	< 0.00052	< 0.00095	< 0.00032	< 0.00039
< 0.00040	< 0.00040	< 0.00062	< 0.00029	< 0.0011	< 0.00036	< 0.00089	< 0.00029	< 0.00060	< 0.0012	< 0.00037	< 0.00046
< 0.00036	< 0.00036	< 0.00056	< 0.00026	< 0.00094	< 0.00032	< 0.00080	< 0.00026	< 0.00054	< 0.00099	< 0.00033	< 0.00041
< 0.00058	< 0.00058	< 0.00092	< 0.00043	< 0.0016	< 0.00053	< 0.0014	< 0.00043	< 0.00088	< 0.0017	< 0.00055	0.00088
< 0.00035	< 0.00035	< 0.00055	< 0.00026	< 0.00093	< 0.00032	< 0.00079	< 0.00026	< 0.00053	< 0.00098	< 0.00033	0.00068
< 0.00062	< 0.00062	< 0.00098	< 0.00046	< 0.0017	< 0.00057	< 0.0015	< 0.00046	< 0.00094	< 0.0018	< 0.00059	0.0017

Table 2
Phase B Investigation Results - VOCs

Naphthalene 91-20-3 mg/kg	N-Butylbenzene 104-51-8 mg/kg	N-Propylbenzene 103-65-1 mg/kg	o-Xylene 95-47-6 mg/kg	sec-Butylbenzene 135-98-8 mg/kg	Styrene 100-42-5 mg/kg	t-Butyl alcohol 75-65-0 mg/kg	tert-Butylbenzene 98-06-6 mg/kg	Tetrachloroethene 127-18-4 mg/kg	Toluene 108-88-3 mg/kg	trans-1,2-Dichloroethylene 156-60-5 mg/kg	trans-1,3-Dichloropropene 10061-02-6 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.00098	< 0.00082	< 0.00055	< 0.00068	< 0.00070	< 0.00049	< 0.0076	< 0.00060	< 0.00053	< 0.00035	< 0.00056	< 0.00040
< 0.00098	< 0.00082	< 0.00055	< 0.00068	< 0.00070	< 0.00049	< 0.0075	< 0.00059	< 0.00053	< 0.00035	< 0.00056	< 0.00040
< 0.0015	< 0.0012	< 0.00080	< 0.00099	< 0.0011	< 0.00071	< 0.011	< 0.00087	0.0017	< 0.00051	< 0.00082	< 0.00058
< 0.00088	< 0.00073	< 0.00049	< 0.00061	< 0.00063	< 0.00044	< 0.0067	< 0.00053	< 0.00047	< 0.00031	< 0.00050	< 0.00036
< 0.00091	< 0.00076	< 0.00051	< 0.00063	< 0.00065	< 0.00045	< 0.007	< 0.00055	< 0.00049	< 0.00032	< 0.00052	< 0.00037
< 0.0012	< 0.001	< 0.00067	< 0.00083	< 0.00085	< 0.00059	< 0.0092	< 0.00072	< 0.00065	< 0.00051	< 0.00068	< 0.00049
< 0.0012	< 0.00095	< 0.00064	< 0.00079	< 0.00082	< 0.00057	< 0.0088	< 0.00069	< 0.00062	< 0.00073	< 0.00065	< 0.00047
< 0.0013	< 0.0011	< 0.00072	< 0.00089	< 0.00092	< 0.00064	< 0.0099	< 0.00078	< 0.00070	< 0.00046	< 0.00074	< 0.00053
< 0.0012	< 0.00093	< 0.00062	< 0.00077	< 0.00079	< 0.00055	< 0.0085	< 0.00067	< 0.00060	< 0.00039	< 0.00064	< 0.00045
< 0.0012	< 0.00094	< 0.00063	< 0.00078	< 0.00081	< 0.00056	< 0.0087	< 0.00068	< 0.00061	< 0.00040	< 0.00065	< 0.00046
< 0.0018	< 0.0015	< 0.00099	< 0.0013	< 0.0013	< 0.00087	< 0.014	< 0.0011	< 0.00095	< 0.00062	< 0.0011	< 0.00072
< 0.0010	< 0.00083	< 0.00056	< 0.00069	< 0.00071	< 0.00050	< 0.0077	< 0.00060	< 0.00054	< 0.00035	< 0.00057	< 0.00041
< 0.0015	< 0.0012	< 0.00080	< 0.00099	< 0.0011	< 0.00071	< 0.011	< 0.00086	0.0017	< 0.00050	< 0.00082	< 0.00058
< 0.00098	< 0.00082	< 0.00055	< 0.00068	< 0.00070	< 0.00049	< 0.0075	< 0.00059	< 0.00053	0.0013	< 0.00056	< 0.00040
< 0.0014	< 0.0012	< 0.00075	< 0.00092	< 0.00095	< 0.00066	< 0.011	< 0.00081	< 0.00072	< 0.00047	< 0.00076	< 0.00054
< 0.00088	< 0.00073	< 0.00049	< 0.00061	< 0.00063	< 0.00044	< 0.0068	< 0.00053	< 0.00048	0.00090	< 0.00050	< 0.00036
< 0.0014	< 0.0012	< 0.00077	< 0.00095	< 0.00098	< 0.00068	< 0.011	< 0.00083	< 0.00074	0.0013	< 0.00079	< 0.00056
< 0.0011	< 0.00088	< 0.00059	< 0.00073	< 0.00076	< 0.00052	< 0.0081	< 0.00064	0.00073	0.0012	< 0.00061	< 0.00043
< 0.0011	< 0.00088	< 0.00059	< 0.00073	< 0.00075	< 0.00052	< 0.0081	< 0.00064	< 0.00057	< 0.00053	< 0.00060	< 0.00043
< 0.00095	< 0.00080	< 0.00054	< 0.00066	< 0.00068	< 0.00047	< 0.0073	< 0.00058	< 0.00052	< 0.00034	< 0.00055	< 0.00039
< 0.00093	< 0.00078	< 0.00052	< 0.00065	< 0.00067	< 0.00046	< 0.0072	< 0.00057	< 0.00050	< 0.00033	< 0.00053	< 0.00038
< 0.0014	< 0.0012	< 0.00078	< 0.00096	< 0.00099	< 0.00069	< 0.011	< 0.00084	< 0.00075	< 0.00049	< 0.00079	< 0.00056
< 0.0011	< 0.00085	< 0.00057	< 0.00071	< 0.00073	< 0.00051	< 0.0079	< 0.00062	< 0.00055	< 0.00036	< 0.00058	< 0.00042
< 0.00093	< 0.00077	< 0.00052	< 0.00064	< 0.00066	< 0.00046	< 0.0071	< 0.00056	< 0.00050	< 0.00040	< 0.00053	< 0.00038
< 0.00078	< 0.00065	< 0.00044	< 0.00054	< 0.00056	< 0.00039	< 0.0060	< 0.00047	< 0.00042	< 0.00038	< 0.00045	< 0.00032
< 0.0012	< 0.00097	< 0.00065	< 0.00080	< 0.00083	< 0.00058	< 0.0089	< 0.00070	< 0.00063	< 0.00041	< 0.00066	< 0.00047
< 0.00097	< 0.00081	< 0.00055	< 0.00067	< 0.00069	< 0.00048	< 0.0075	< 0.00059	< 0.00052	< 0.00043	< 0.00056	< 0.00040
< 0.00094	< 0.00078	< 0.00053	< 0.00065	< 0.00067	< 0.00047	< 0.0072	< 0.00057	< 0.00051	< 0.00033	< 0.00054	< 0.00038
< 0.00092	< 0.00077	< 0.00052	< 0.00064	< 0.00066	< 0.00046	< 0.0071	< 0.00056	< 0.00050	< 0.00033	< 0.00053	< 0.00038
< 0.00094	< 0.00079	< 0.00053	< 0.00065	< 0.00067	< 0.00047	< 0.0073	< 0.00057	< 0.00051	< 0.00033	< 0.00054	< 0.00039
< 0.0014	< 0.0011	< 0.00074	< 0.00092	< 0.00094	< 0.00066	< 0.011	< 0.00080	0.0015	< 0.00047	< 0.00076	< 0.00054
< 0.00098	< 0.00082	< 0.00055	< 0.00068	< 0.00070	< 0.00049	< 0.0076	< 0.00060	< 0.00053	< 0.00035	< 0.00056	< 0.00040
< 0.00098	< 0.00082	< 0.00055	< 0.00068	< 0.00070	< 0.00049	< 0.0076	< 0.00060	< 0.00053	< 0.00035	< 0.00056	< 0.00040
< 0.0012	< 0.00094	< 0.00063	< 0.00078	< 0.00081	< 0.00056	< 0.0087	< 0.00068	0.00073	< 0.00040	< 0.00065	< 0.00046
< 0.00086	< 0.00072	< 0.00048	< 0.00059	< 0.00061	< 0.00043	< 0.0066	< 0.00052	< 0.00046	< 0.00030	< 0.00049	< 0.00035
< 0.00093	< 0.00078	< 0.00053	< 0.00065	< 0.00067	< 0.00046	< 0.0072	< 0.00057	< 0.00051	< 0.00048	< 0.00054	< 0.00038
< 0.0011	< 0.00091	< 0.00061	< 0.00075	< 0.00078	< 0.00054	< 0.0083	< 0.00066	< 0.00059	< 0.00043	< 0.00062	< 0.00044
< 0.00097	< 0.00081	< 0.00055	< 0.00067	< 0.00070	< 0.00048	< 0.0075	< 0.00059	< 0.00053	< 0.00034	< 0.00056	< 0.00040
< 0.0016	< 0.0014	< 0.00090	< 0.0012	< 0.0012	< 0.00080	< 0.013	< 0.00097	< 0.00087	< 0.00057	< 0.00092	< 0.00065
< 0.00096	< 0.00080	< 0.00054	< 0.00067	< 0.00069	< 0.00048	< 0.0074	< 0.00058	< 0.00052	< 0.00044	< 0.00055	< 0.00039
< 0.0018	< 0.0015	< 0.00096	< 0.0012	< 0.0013	< 0.00085	< 0.014	< 0.0011	0.0021	< 0.00081	< 0.00098	< 0.00070

Table 2
Phase B Investigation Results - VOCs

Trichloroethene 79-01-6 mg/kg	Trichlorofluoromethane 75-69-4 mg/kg	Vinylchloride 75-01-4 mg/kg
report_result_text	report_result_text	report_result_text
< 0.00043	< 0.00036	< 0.00051
< 0.00043	< 0.00036	< 0.00051
< 0.00063	< 0.00052	< 0.00074
< 0.00039	< 0.00032	< 0.00045
< 0.0004	< 0.00033	< 0.00047
< 0.00053	< 0.00044	< 0.00062
< 0.0005	< 0.00042	< 0.00059
< 0.00057	< 0.00047	< 0.00067
< 0.00049	< 0.00041	< 0.00057
< 0.00050	< 0.00041	< 0.00058
< 0.00078	< 0.00064	< 0.00091
< 0.00044	< 0.00036	< 0.00052
< 0.00063	< 0.00052	< 0.00074
< 0.00043	< 0.00036	< 0.00051
< 0.00059	< 0.00049	< 0.00069
< 0.00039	< 0.00032	< 0.00046
< 0.00061	< 0.00050	< 0.00071
< 0.00047	< 0.00039	< 0.00055
< 0.00047	< 0.00039	< 0.00055
< 0.00042	< 0.00035	< 0.00049
< 0.00041	< 0.00034	< 0.00048
< 0.00061	< 0.00050	< 0.00072
< 0.00045	< 0.00037	< 0.00053
< 0.00041	< 0.00034	< 0.00048
< 0.00034	< 0.00028	< 0.00040
< 0.00051	< 0.00042	< 0.00060
< 0.00043	< 0.00036	< 0.00050
< 0.00041	< 0.00034	< 0.00049
< 0.00041	< 0.00034	< 0.00048
< 0.00042	< 0.00034	< 0.00049
< 0.00058	< 0.00048	< 0.00068
< 0.00044	< 0.00036	< 0.00051
< 0.00044	< 0.00036	< 0.00051
< 0.00050	< 0.00041	< 0.00058
< 0.00038	< 0.00031	< 0.00044
< 0.00041	< 0.00034	< 0.00048
< 0.00048	< 0.00040	< 0.00056
< 0.00043	< 0.00036	< 0.00050
< 0.00071	< 0.00058	< 0.00083
< 0.00043	< 0.00035	< 0.00050
< 0.00076	< 0.00062	< 0.00089

Table 2
Phase B Investigation Results - Wet Chemistry

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	Analyte	Alkalinity (as CaCO3)	Ammonia (as N)	Bicarbonate	BROMIDE	Carbonate	Chlorate	Chloride	Cyanide
							CAS_RN	Alk as CaCO3	7664-41-7	71-52-3	24959-67-9	3812-32-6	14866-68-3	16887-00-6	57-12-5
							Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
							report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSAO7-19B	RSAO7	10/12/2009	19	20.5	ft	R0905829	237	< 0.08	229	< 0.2	8	< 0.043	5.5		
RSAO7-29B	RSAO7	10/12/2009	29	30.5	ft	R0905829	269	< 0.08	269	< 0.2	< 3	< 0.044	9.8		
RSAO7-47B	RSAO7	10/12/2009	47	48.5	ft	R0905829	524	< 0.11	511	1.1	13	1750	563		
RSAO7-9B	RSAO7	10/12/2009	9	10.5	ft	R0905829	182	< 0.08	182	< 0.2	< 3	< 0.044	6.2		
RSAO8-11.5B	RSAO8	9/14/2009	11.5	13	ft	R0905218	118	< 0.54	118	1.3	< 3	16.5	316		
RSAO8-21.5B	RSAO8	9/14/2009	21.5	23	ft	R0905218	133	< 0.54	133	2.3	< 3	8.58	494		
RSAO8-43B	RSAO8	9/14/2009	43	43.5	ft	R0905218	121	< 0.09	121	< 0.2	< 3	0.944	172		
SA108-20B	SA108	10/16/2009	20	21.5	ft	R0905963	313	< 0.08	301	< 0.2	13	88	594		
SA108-30B	SA108	10/16/2009	30	31.5	ft	R0905963	377	< 0.08	353	< 0.2	24	46.3	307		
SA108-45B	SA108	10/16/2009	45	46.5	ft	R0905963	121	< 0.09	121	2.1	< 3	7.71	60.1		
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	R0905829	141	2.82	141	< 0.2	< 3	1.17	120	0.82	
SA137-15B	SA137	10/9/2009	15	16.5	ft	R0905829	864	< 0.08	807	< 0.2	57	0.948	10.7	< 0.42	
SA137-31B	SA137	10/9/2009	31	32.5	ft	R0905829	1470	< 0.10	1380	< 0.2	91	79.3	144	< 0.6	
SA139-0.5B	SA139	8/20/2009	0.5	2	ft	R0904746	250	< 0.08	250	< 0.2	< 3	0.537	632		
SA139009-25B	SA139	8/20/2009	25	26.5	ft	R0904746	250	< 0.08	241	< 0.2	9	2.88	39.9		
SA139-10B	SA139	8/20/2009	10	11.5	ft	R0904746	167	< 0.08	167	< 0.2	< 3	0.126	152		
SA139-25B	SA139	8/20/2009	25	26.5	ft	R0904746	284	< 0.08	279	< 0.2	4	2.51	36.2		
SA139-35B	SA139	8/20/2009	35	36.5	ft	R0904746	113	< 0.09	113	< 0.2	< 3	6.03	168		
SA141009-14B	SA141	10/15/2009	14	15.5	ft	R0905882	259	< 0.08	253	< 0.2	6	9.8	1020		
SA141-14B	SA141	10/15/2009	14	15.5	ft	R0905882	269	< 0.08	260	< 0.2	8	11.1	1060		
SA141-24B	SA141	10/15/2009	24	25.5	ft	R0905882	162	< 0.08	162	< 0.2	< 3	20.6	1680		
SA141-30B	SA141	10/15/2009	30	31.5	ft	R0905882	164	< 0.08	164	< 0.2	< 3	13	1730		
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	145	< 0.08	145	< 0.2	< 3	< 0.043	151	0.9	
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	R0905963	135	< 0.08	135	< 0.2	< 3	0.07	113	0.9	
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	R0905963	238	< 0.08	235	< 0.2	3	0.128	9.4	0.6	
SA142-51B	SA142	10/16/2009	51	52.5	ft	R0905963	111	< 0.08	111	0.9	< 3	2.6	104	< 0.42	
SA143009-50B	SA143	10/15/2009	50	51.5	ft	R0905882	105	< 0.08	105	< 0.2	< 3	1.19	85.7		
SA143-24B	SA143	10/15/2009	24	25.5	ft	R0905882	228	< 0.08	224	< 0.2	4	< 0.044	7.8		
SA143-34B	SA143	10/15/2009	34	34.5	ft	R0905882	330	< 0.08	321	< 0.2	9	0.353	20.5		
SA143-50B	SA143	10/15/2009	50	51.5	ft	R0905882	170	< 0.08	170	< 0.2	< 3	1.08	88.3		
SA149009-45B	SA149	10/21/2009	45	46.5	ft	R0906024	393	< 0.09	380	< 0.2	13	3.68	57.5		
SA149-22B	SA149	10/21/2009	22	23.5	ft	R0906024	234	< 0.2	230	< 0.2	4	< 0.045	17.5		
SA149-32B	SA149	10/21/2009	32	33.5	ft	R0906024	294	< 0.1	286	< 0.2	8	< 0.044	12.9		
SA149-45B	SA149	10/21/2009	45	46.5	ft	R0906024	464	< 0.09	449	< 0.2	15	6.26	84.7		
SA171-15B	SA171	10/19/2009	15	16.5	ft	R0905963	197	< 0.08	197	< 0.2	< 3	2.66	122	< 0.5	
SA171-30B	SA171	10/19/2009	30	31.5	ft	R0905963	317	< 0.08	306	< 0.2	11	0.305	35.6	< 0.5	
SA171-41B	SA171	10/19/2009	41	42.5	ft	R0905963	94	< 0.09	94	< 0.2	< 3	0.081	84.2	< 0.5	
SA171-5B	SA171	10/19/2009	5	6.5	ft	R0905963	157	< 0.08	157	< 0.2	< 3	2.42	539	< 0.42	
SA52-15B	SA52	10/21/2009	15	16.5	ft	R0906024	615	< 0.1	573	1.1	42	135	628		
SA52-28B	SA52	10/21/2009	28	29.5	ft	R0906024	386	< 0.1	366	1.2	20	282	808		
SA52-43B	SA52	10/21/2009	43	44.5	ft	R0906024	225	< 0.16	225	1.8	< 4	1010	2600		

Table 2
Phase B Investigation Results - Wet Chemistry

MBAS MBAS mg/kg	Mercury 7439-97-6 mg/kg	Nitrate (as N) NO3 mg/kg	Nitrite 14797-65-0 mg/kg	Perchlorate 14797-73-0 mg/kg	pH PH mg/kg	Sulfate 14808-79-8 mg/kg	TOTAL ORGANIC CARBON TOC mg/kg	Total Phosphorus-P 7723-14-0 mg/kg
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 0.6	0.008	1.28	< 0.08	< 0.043	1e+008	236	350	546
< 0.6	0.01	1.60	< 0.08	0.223	1e+008	435	430	912
< 0.8	0.006	11.7	< 0.16	442	1e+008	1260	360	712
< 0.6	0.024	5.41	< 0.08	< 0.044	1e+008	376	630	831
0.9	0.028	13.9	0.16	9.37	1e+008	11200	850	945
< 0.6	0.027	6.58	< 0.08	6.1	1e+008	11400	460	750
< 0.7	0.014	3.46	< 0.09	1.41	1e+008	15200	< 300	849
< 0.6	0.018	21.8	0.24	105	1e+008	1660	800	976
< 0.6	0.005	3.71	0.11	37.6	1e+008	983	530	905
< 0.7	0.007	2.13	< 0.09	4.6	1e+008	17400	380	602
< 0.6	0.115	12.6	0.16	47.6	1e+008	15400	2600	581
< 0.6	0.03	0.84	< 0.08	0.851	1e+008	43.5	< 290	610
1.4	0.01	3.07	< 0.10	26.2	1e+008	216	640	459
0.7	0.08	54.0	0.11	39.4	1e+008	17300	7480	688
0.7	0.008	2.20	< 0.08	0.915	1e+008	544	770	848
< 0.6	0.031	12.2	< 0.08	5.83	1e+008	3910	1380	864
1.2	0.01	1.83	< 0.08	1.19	1e+008	474	500	872
1.4	0.01	4.58	< 0.09	2.05	1e+008	20500	370	575
1.5	0.032	5.58	< 0.08	3.18	1e+008	408	620	794
< 0.6	0.024	5.68	< 0.08	3.56	1e+008	444	620	702
< 0.6	0.012	2.50	0.11	6.54	1e+008	307	520	653
< 0.6	0.009	5.43	< 0.08	2.18	1e+008	164	510	772
< 0.6	0.026	9.42	< 0.08	1.1	1e+008	7210	1310	879
< 0.6	0.021	7.69	< 0.08	1.33	1e+008	6390	1290	854
< 0.6	0.019	3.57	< 0.08	0.047	1e+008	620	530	707
< 0.6	0.012	2.68	< 0.08	1.97	1e+008	4960	340	723
0.7	0.051	2.70	< 0.09	0.414	1e+008	6890	370	630
< 0.6	0.008	6.71	< 0.08	9.14	1e+008	433	< 300	559
0.7	0.012	1.42	< 0.08	0.375	1e+008	192	< 300	852
< 0.6	0.009	2.60	< 0.09	0.324	1e+008	7690	< 290	585
< 0.7	0.012	1.58	< 0.09	2.22	1e+008	250	530	617
< 0.6	0.126	0.89	< 0.08	< 0.0350	1e+008	295	< 290	1010
< 0.6	0.08	< 0.05	< 0.08	< 0.0350	1e+008	92.2	300	722
< 0.7	0.012	1.75	< 0.09	3.67	1e+008	353	540	585
< 0.6	0.013	7.29	< 0.08	2.69	1e+008	952	400	907
< 0.6	0.016	4.24	< 0.08	0.424	1e+008	125	300	571
< 0.7	0.008	3.20	< 0.09	0.161	1e+008	12800	< 300	479
< 0.6	0.012	13.1	< 0.08	6.01	1e+008	745	490	1020
0.7	0.083	9.60	< 0.08	73.2	1e+008	1060	1870	1070
< 0.6	0.007	6.30	< 0.08	92.3	1e+008	395	330	639
< 0.8	0.007	30.5	< 0.11	489	1e+008	14300	430	547

Table 2
Phase B Investigation Results - Radio Chemical Results

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	Analyte	Ra-226	Ra-228	Th-228	Th-230	Th-232	U-234	U-235	U-238
							CAS_RN	Ra-226	Ra-228	Th-228	Th-230	Th-232	U-234	U-235	U-238
						Units	pci/g	pci/g	pci/g	pci/g	pci/g	pci/g	pci/g	pci/g	pci/g
							report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
RSAO7-19B	RSAO7	10/12/2009	19	20.5	ft	238830	0.702	1.05	1.54	1.09	1.48	1.22	< 0.0413	0.993	
RSAO7-29B	RSAO7	10/12/2009	29	30.5	ft	238830	1.34	1.20	1.79	1.41	1.20	1.26	0.118	1.29	
RSAO7-47B	RSAO7	10/12/2009	47	48.5	ft	238830	0.876	0.744	1.22	1.97	1.03	2.15	0.148	2.15	
RSAO7-9B	RSAO7	10/12/2009	9	10.5	ft	238830	0.642	0.483	1.51	0.845	1.29	0.835	0.0677	0.778	
RSAO8-11.5B	RSAO8	9/14/2009	11.5	13	ft	237118	1.52	1.08	1.67	0.874	1.42	1.14	0.0653	1.18	
RSAO8-21.5B	RSAO8	9/14/2009	21.5	23	ft	237118	0.809	0.679	1.58	0.910	1.27	1.54	0.0652	1.39	
RSAO8-43B	RSAO8	9/14/2009	43	43.5	ft	237118	1.36	1.00	1.60	1.62	1.37	1.96	0.0975	1.81	
SA108-20B	SA108	10/16/2009	20	21.5	ft	239237	0.728	0.696	1.54	0.883	1.42	0.820	0.0481	0.810	
SA108-30B	SA108	10/16/2009	30	31.5	ft	239237	1.31	1.38	1.27	0.891	1.17	1.11	0.0458	1.08	
SA108-45B	SA108	10/16/2009	45	46.5	ft	239237	1.02	0.729	1.91	1.87	1.83	1.82	0.117	1.74	
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	238583	0.491	< 0.430	1.51	0.891	1.27	1.01	0.0538	1.12	
SA137-15B	SA137	10/9/2009	15	16.5	ft	238583	0.843	1.40	1.50	1.75	1.53	1.39	0.0604	1.13	
SA137-31B	SA137	10/9/2009	31	32.5	ft	238583	3.62	0.665	0.941	4.48	1.07	4.71	0.270	4.50	
SA139-0.5B	SA139	8/20/2009	0.5	2	ft	235782	0.621	1.23	1.78	1.24	1.47	1.30	< 0.0872	1.07	
SA139009-25B	SA139	8/20/2009	25	26.5	ft	235782	1.13	1.16	1.97	1.75	1.48	1.33	0.0696	1.06	
SA139-10B	SA139	8/20/2009	10	11.5	ft	235782	0.994	1.08	1.92	1.28	1.75	0.974	0.0461	0.959	
SA139-25B	SA139	8/20/2009	25	26.5	ft	235782	1.23	1.16	1.88	1.78	1.78	1.22	0.0559	1.12	
SA139-35B	SA139	8/20/2009	35	36.5	ft	235782	1.54	0.770	2.27	2.69	1.60	1.82	0.0545	1.73	
SA141009-14B	SA141	10/15/2009	14	15.5	ft	239110	0.427	1.60	1.54	0.801	1.34	0.871	< 0.0423	0.886	
SA141-14B	SA141	10/15/2009	14	15.5	ft	239110	0.738	1.77	1.36	0.844	1.35	0.872	< 0.0809	0.902	
SA141-24B	SA141	10/15/2009	24	25.5	ft	239110	0.565	0.944	1.24	1.00	1.50	1.28	0.0549	1.04	
SA141-30B	SA141	10/15/2009	30	31.5	ft	239110	1.91	0.827	1.15	1.67	1.12	1.79	0.0869	1.43	
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	239110	0.892	1.57	1.64	0.975	1.43	1.01	< 0.040	0.878	
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	239110	< 0.170	1.45	1.63	0.972	1.46	0.890	< 0.0484	0.915	
SA142-30.5B	SA142	10/16/2009	30.5	32	ft	239110	0.800	1.17	1.38	1.06	1.29	0.878	0.0677	0.760	
SA142-51B	SA142	10/16/2009	51	52.5	ft	239110	0.595	0.483	1.43	1.32	1.45	1.25	0.0741	1.37	
SA143009-50B	SA143	10/15/2009	50	51.5	ft	239110	1.32	0.911	1.49	2.85	1.47	2.49	0.0988	2.11	
SA143-24B	SA143	10/15/2009	24	25.5	ft	239110	0.684	1.99	1.83	0.844	1.36	0.979	0.0468	0.915	
SA143-34B	SA143	10/15/2009	34	34.5	ft	239110	0.493	1.74	1.46	0.816	1.06	1.27	0.070	1.01	
SA143-50B	SA143	10/15/2009	50	51.5	ft	239110	2.07	0.978	1.49	2.22	1.27	2.23	0.105	1.99	
SA149009-45B	SA149	10/21/2009	45	46.5	ft	239375	1.80	0.987	1.30	4.07	1.31	3.66	0.167	3.58	
SA149-22B	SA149	10/21/2009	22	23.5	ft	239375	0.736	0.974	1.83	0.951	1.77	0.712	0.0551	0.775	
SA149-32B	SA149	10/21/2009	32	33.5	ft	239375	1.22	0.887	2.32	1.52	1.49	1.15	0.0605	1.12	
SA149-45B	SA149	10/21/2009	45	46.5	ft	239375	2.52	0.889	1.38	4.28	1.17	3.44	0.163	3.51	
SA171-15B	SA171	10/19/2009	15	16.5	ft	239237	0.647	1.13	1.45	1.07	1.39	0.998	0.0984	1.06	
SA171-30B	SA171	10/19/2009	30	31.5	ft	239237	0.701	1.23	1.27	1.38	1.20	1.52	0.084	1.23	
SA171-41B	SA171	10/19/2009	41	42.5	ft	239237	2.27	1.02	1.29	3.58	1.31	3.29	0.189	3.12	
SA171-5B	SA171	10/19/2009	5	6.5	ft	239237	0.581	1.15	1.25	0.660	1.07	1.14	0.0713	1.06	
SA52-15B	SA52	10/21/2009	15	16.5	ft	239375	0.899	1.14	1.50	1.04	1.29	1.12	0.0768	0.952	
SA52-28B	SA52	10/21/2009	28	29.5	ft	239375	1.40	1.07	1.51	1.54	1.29	1.36	0.0634	1.28	
SA52-43B	SA52	10/21/2009	43	44.5	ft	239375	3.45	1.32	0.982	4.25	0.987	3.73	0.162	2.99	

Table 2
Phase B Investigation Results - Dioxins and Furans

Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	Analyte	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	1,2,3,4,6,7,8-Heptachlorodibenzofuran
							CAS_RN	39001-02-0	3268-87-9
							Units	pg/g	pg/g
							report_result_text	report_result_text	report_result_text
RSA07-9B	RSA07	10/12/2009	9	10.5	ft	G9J070273	7.2	2.8	1.6
RSA08-11.5B	RSA08	9/14/2009	11.5	13	ft	G9I170343	110	60	43
SA108-20B	SA108	10/16/2009	20	21.5	ft	G9J150241	11	28	3.0
SA137-0.5B	SA137	10/9/2009	0.5	2	ft	G9J070273	7000	230	2000
SA139-0.5B	SA139	8/20/2009	0.5	2	ft	R0904746	1440	130	499
SA141009-14B	SA141	10/15/2009	14	15.5	ft	G9J150241	5.4	< 1.1	2.2
SA141-14B	SA141	10/15/2009	14	15.5	ft	G9J150241	13	< 1.1	5.0
SA142009-20.5B	SA142	10/16/2009	20.5	22	ft	G9J150241	1400	43	510
SA142-20.5B	SA142	10/16/2009	20.5	22	ft	G9J150241	610	15	220
SA143-24B	SA143	10/15/2009	24	25.5	ft	G9J150241	< 5.4	< 2.6	< 2.7
SA149-22B	SA149	10/21/2009	22	23.5	ft	G9J150241	92	5.4	44
SA171-5B	SA171	10/19/2009	5	6.5	ft	G9J150241	< 5.2	< 0.95	< 2.6
SA52-15B	SA52	10/21/2009	15	16.5	ft	G9J150241	9200	400	4300

Table 2
Phase B Investigation Results - Dioxins and Furans

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin 35822-46-9 pg/g	1,2,3,4,7,8,9-Heptachlorodibenzofuran 55673-89-7 pg/g	1,2,3,4,7,8-Hexachlorodibenzofuran 70648-26-9 pg/g	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin 39227-28-6 pg/g	1,2,3,6,7,8-Hexachlorodibenzofuran 57117-44-9 pg/g	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin 57653-85-7 pg/g
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
6.2	19	17	0.54	12	0.89
5.4	1.0	< 2.6	< 2.6	< 2.6	< 2.6
150	930	930	28	640	66
61.6	250	312	8.33	190	15.8
0.42	1.0	1.5	< 2.6	1.1	0.22
0.36	1.7	2.2	< 2.7	1.5	< 2.7
40	190	200	5.1	140	11
16	99	93	2.4	69	4.8
< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
3.9	20	25	< 2.7	17	1.6
< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
320	2200	2000	54	1300	110

Table 2
Phase B Investigation Results - Dioxins and Furans

1,2,3,7,8,9-Hexachlorodibenzofuran 72918-21-9 pg/g	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin 19408-74-3 pg/g	1,2,3,7,8-Pentachlorodibenzofuran 57117-41-6 pg/g	1,2,3,7,8-Pentachlorodibenzo-p-dioxin 40321-76-4 pg/g	2,3,4,6,7,8-Hexachlorodibenzofuran 60851-34-5 pg/g	2,3,4,7,8-Pentachlorodibenzofuran 57117-31-4 pg/g
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
2.1	0.59	10	0.61	3.0	5.6
< 2.6	< 2.6	0.65	< 2.6	< 2.6	< 2.6
170	64	970	94	180	580
39.8	16.3	147	9.96	43.1	74.4
0.33	0.23	0.95	< 2.6	0.47	0.50
< 2.7	< 2.7	1.0	< 2.7	0.39	0.52
23	14	91	6.6	41	38
13	5.1	60	4.2	18	28
< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
1.9	1.7	14	< 2.7	3.4	7.6
< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6
190	120	1200	91	380	560

Table 2
Phase B Investigation Results - Dioxins and Furans

2,3,7,8-Tetrachlorodibenzofuran 51207-31-9 pg/g	2,3,7,8-Tetrachlorodibenzo-p-dioxin 1746-01-6 pg/g	Total TEQ (Calculated) TTEQ pg/g	TTEQ_TAS TTEQ_TAS pg/g
report_result_text	report_result_text	report_result_text	report_result_text
< 0.52	< 0.52		0.0030
4.9	0.27	6.8	
< 0.52	< 0.52		0.12
3500	58		940
82.3	3.05	119	
< 0.52	< 0.52		0.53
0.51	< 0.54		0.47
42	2.3		71
34	1.6		43
0.084	< 0.54		0.0092
8.9	< 0.53		9.3
0.079	< 0.52		0.0082
770	28		890

Table 2
Phase B Investigation Results - Asbestos

							Analyte CAS_RN Units	Long Amphibole Protocol Structures ASB_LAPS s/gPM10	Long Amphibole Protocol Structures Count ASB_LAPS_CT s/samp	Long Asbestos Protocol Structures ASB_LASB s/gPM10	Long Asbestos Protocol Structures Count ASB_LASB_CT s/samp
Sample ID	Location	Sample Date	Start Depth	End Depth	Depth Unit	Lab Report	report_result_text	report_result_text	report_result_text	report_result_text	
SA137-0.0B	SA137	9/9/2009	0	0.5	ft	090907022	< 8850000	< 0	< 8850000	< 0	
SA139-0.0B	SA139	8/26/2009	0	0.5	ft	090907020	< 8910000	< 0	< 8910000	< 0	

Table 2
Phase B Investigation Results - Asbestos

Long Chrysotile Protocol Structures ASB_LCPS s/gPM10	Long Chrysotile Protocol Structures Count ASB_LCPS_CT s/samp	Total Amphibole Protocol Structures ASB_TAPS s/gPM10	Total Amphibole Protocol Structures Count ASB_TAPS_CT s/samp	Total Asbestos Protocol Structures ASB_TOTA s/gPM10	Total Asbestos Protocol Structures Count ASB_TOTA_CT s/samp
report_result_text	report_result_text	report_result_text	report_result_text	report_result_text	report_result_text
< 8850000	< 0	< 8850000	< 0	< 8850000	< 0
< 8910000	< 0	< 8910000	< 0	< 8910000	< 0

Table 2
Phase B Investigation Results - Asbestos

Total Chrysotile Protocol Structures ASB_TCPS s/gPM10	Total Chrysotile Protocol Structures Count ASB_TCPS_CT s/samp
report_result_text	report_result_text
< 8850000	< 0
< 8910000	< 0

ENSR

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April 9, 2007

Ms. Susan Crowley
Tronox LLC
P. O. Box 55
Henderson, Nevada 89009

ENSR Project: 04020-023-420

Subject: Volume Determination of Manganese Tailings Pile, Tronox Facility, Henderson, Nevada.

Dear Ms. Crowley:

At your direction, ENSR drilled and sampled nine soil borings in the manganese tailings (Mn tailings) pile on the Tronox LLC (TRX) facility in Henderson, Nevada. The scope of work also included estimating the in-place volume of the Mn tailings. Field work was conducted on September 13 and 14, 2006, under the Master Services Agreement OKC MWA C-1488-11 between TRX Corporation and ENSR, and as described in the ENSR proposal dated August 23, 2006. Mr. Edward J. Krish was mobilized as the project supervising geologist and Mr. Eric Nelson as the staff geologist. Mr. David Gerry was the Nevada Certified Environmental Manager directing the activities.

Task 1: Drill and Sample Nine Soil Borings

According to existing maps and aerial photographs provided by Tronox, the Mn tailings pile is estimated to encompass an area of approximately eight-acres. ENSR contracted with WDC Exploration & Wells in Las Vegas, Nevada, to drill nine borings on the Mn tailings pile. The borings were laid out as a grid of three borings on three parallel traverses. Borings were drilled through the Mn tailings pile and terminated in the underlying native soil at depths ranging between 10 feet below ground surface (bgs) and 31 feet bgs. In general, the Mn tailings are composed of various combinations of dark gray to dark brown silty clay, silty sand and sandy clay with minor amounts of fine gravel. The underlying alluvium consists of light brown silty sand and silty gravelly sand. A total of 180 feet were drilled between the nine boring locations.

The borings were drilled using a hollow-stem auger. Split-spoon and bulk soil samples were collected approximately every ten feet, or from the approximate top, middle, and bottom of the pile. Additional split-spoon soil samples were collected, as needed, to confirm the location of the interface between the overlying Mn tails and the underlying native soil. The split-spoon and bulk samples are archived at the Tronox Henderson facility. The boring locations were surveyed using a high resolution GPS and are shown on **Plate 1**, the Manganese Tailings Reserve Map. Lithologic descriptions of the Mn tailings material were recorded for the nine borings (**Appendix A**). The soil boring drilling statistics and soil samples collected during this drilling activity are listed in **Table 1**. Three bulk samples of approximately 15 pounds each, MN-

Ms. Susan Crowley
Tronox LLC
Page 2

1-1-5, MN-6-10-15, and MN-9-25-30, were shipped to McClelland Labs in Sparks, Nevada on behalf of AIG for Profile 1 testing per the Meteoric Water Mobility Procedure.

Task 2: Calculation of the Volume of the Manganese Tailings Pile

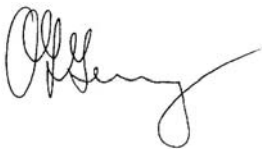
A search of the old Basic Magnesium, Inc. drawings collection yielded the pre-tails 1944 as-built drawings of the area. **Plate 2**, the Pre-Tailings Surface Configuration Map, shows the locations of the old cooling tower, roads, railroad grades, berms, and basins with spot elevations. These data, combined with the current topographic map of the Mn tailings pile, **Plate 1**, and the base elevations of the tailings from the drill holes, were used to construct the three cross sections of the Mn tailings pile (**Figures 1, 2, and 3**).

To calculate the volume of the Mn tailings pile, a cross-sectional block model technique was used. The pile was subdivided into three blocks as shown on **Plates 1 and 2**, each with a width extending half way between the adjacent drill hole and/or the edge of the pile.

The area of Mn tails in each cross section was measured and extrapolated across the width of the block to arrive at the cubic feet of tailings in each block. These cubic feet values were converted to cubic yards and summed to arrive at the total cubic yards of tailings in the pile. The calculation for each block is shown on its' respective figure. The results show that approximately 40,023 cubic yards of tails are in Block A, approximately 67,453 cubic yards are in Block B and approximately 105,555 cubic yards are in Block C, for a grand total of approximately 213,031 cubic yards of Mn tailings in the pile.

If you have any questions or concerns please contact me at 405-760-5777 or ekrish@frontiernet.net.

Sincerely,



David L. Gerry, R.G., C.E.G.
Senior Program Manager



Ed Krish
Supervising Geologist

Attachments:

Plate 1: Manganese Tailings Reserve
Plate 2: Pre-Tailings Surface Configuration

Figure 1: Manganese Tailings – Block A North-South Cross Section A-A'
Figure 2: Manganese Tailings – Block B North-South Cross Section B-B'
Figure 3: Manganese Tailings – Block C North-South Cross Section C-C'

Ms. Susan Crowley
Tronox LLC
Page 3

Table 1: Drilling Statistics, Manganese Tailings Pile, September 2006

Appendix A: Lithology Logs

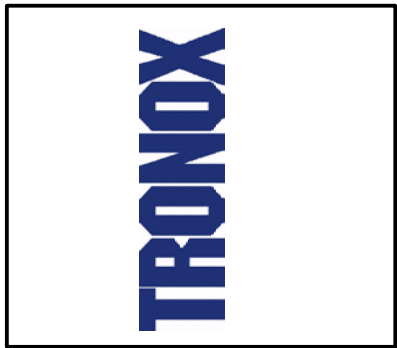
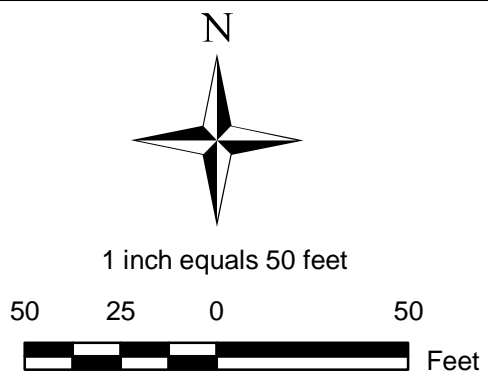
PLATES



LEGEND

- Manganese Reserve Borings
- - - Limit of Manganese Tails Pile
- · - · - Mn Tails Volume Calculation Area
- A — A' Line of Cross Section
- - - Tronox Facility Boundary
- Topographic Contours
 - 5 Foot Interval
 - · - · - 1 Foot Interval

Grid: Nevada State Plane, East Zone, NAD83, Feet



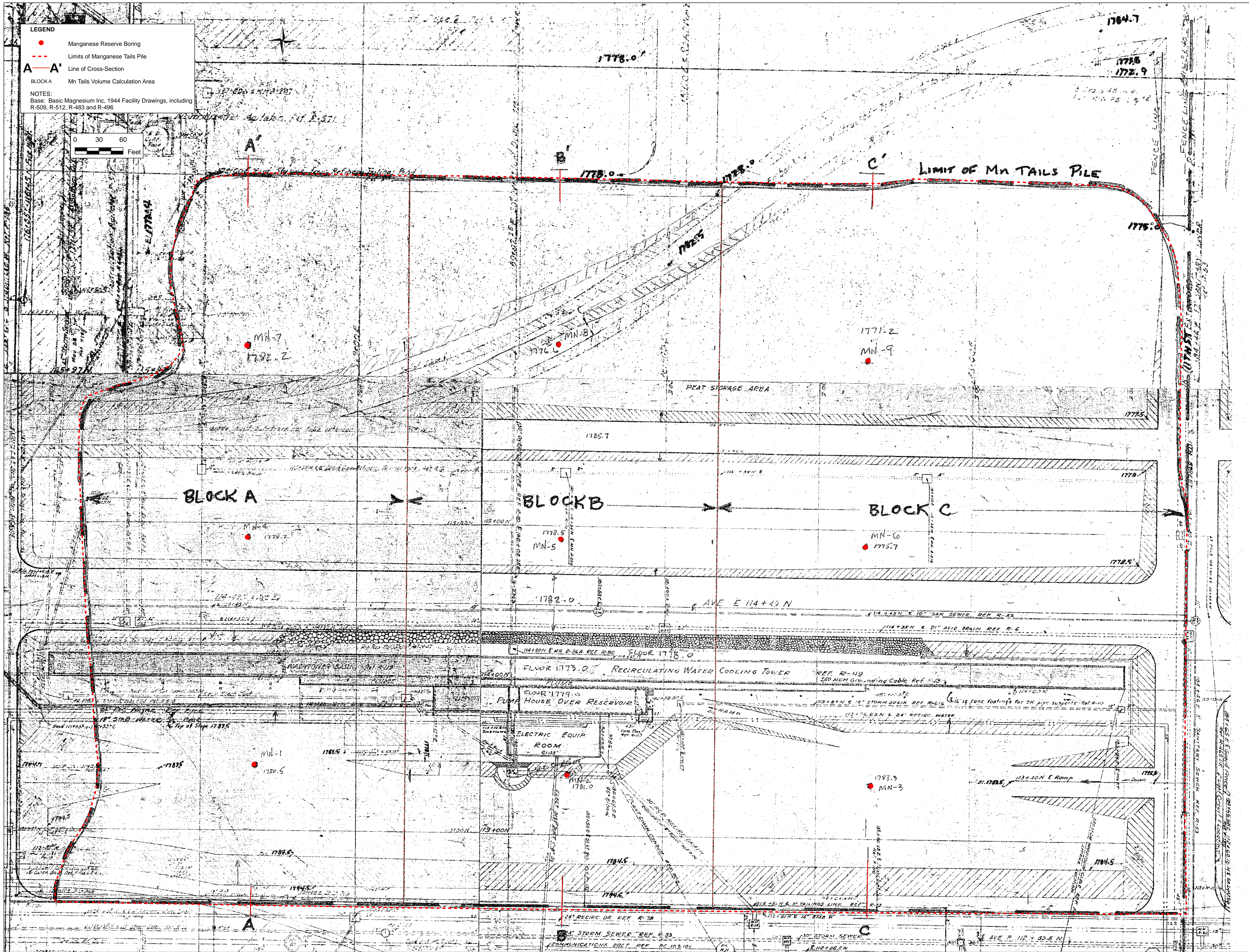
DESIGNED BY:		DRAWN BY:		CHECKED BY:		APPROVED BY:	
EK		TM		EK		EK	
NO.		DATE:		DESCRIPTION:		BY:	

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MANGANESE TAILINGS RESERVE			
SITE INVESTIGATION Tronox Facility Henderson, Nevada			
SCALE:	DATE:	PROJECT NUMBER:	
1:600	2/28/2007	04020-023-420	

PLATE NUMBER:	1
SHEET NUMBER:	X



DESIGNED BY:	REVISIONS
E. Kish	NO.:
T. Madson	DESCRIPTION:
CHECKED BY:	DATE:
E. Kish	BY:
APPROVED BY:	
D. Gentry	

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 1720 AVENUE ALCADO, NEVADA 89012
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PRE-TAILINGS SURFACE CONFIGURATION
 MANGANESE TAILINGS RESERVE
 SITE INVESTIGATION
 TRONOX FACILITY
 HENDERSON, NEVADA

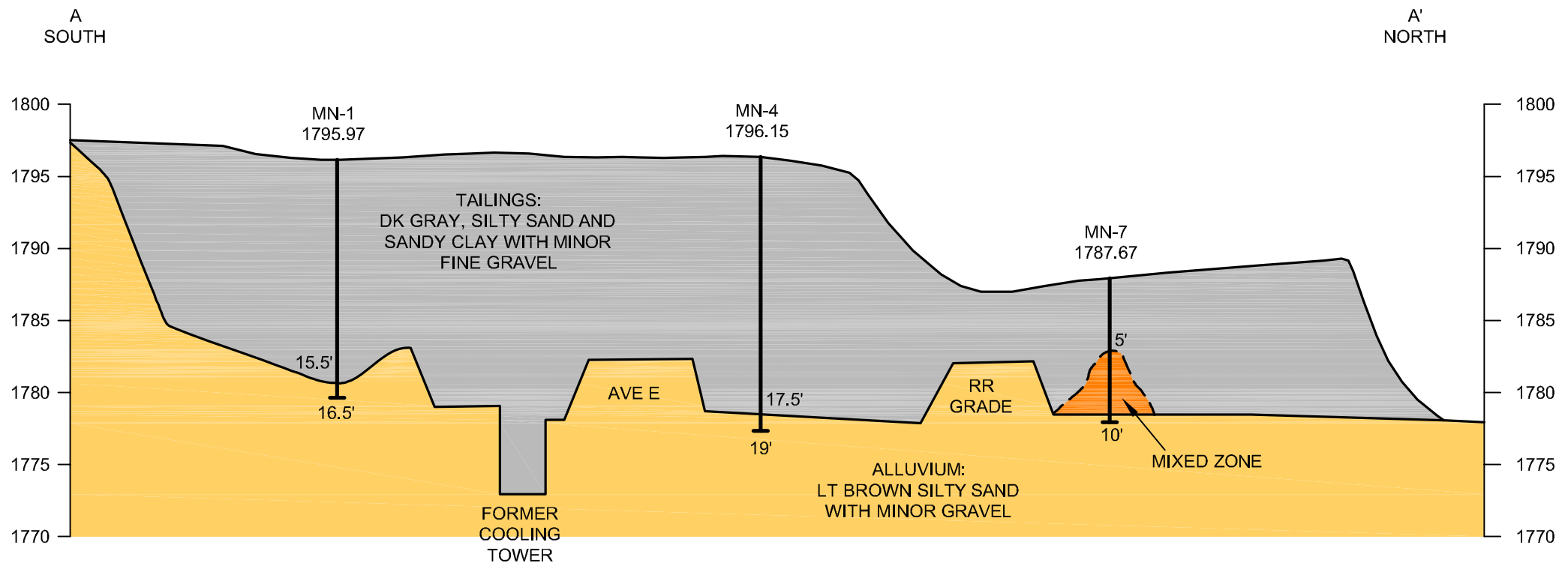
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 DATE: 3/14/2007
 SCALE: 1:360

PLATE NUMBER:
2

SHEET NUMBER:
 X

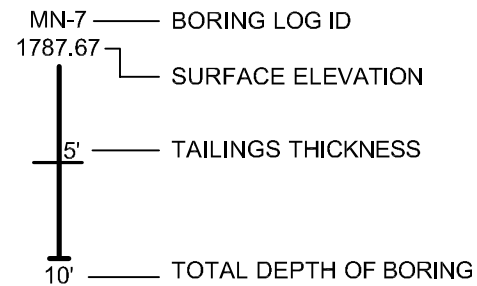
J:\Tronox\GIS\med\Manganese tailings\tailings\scan.mxd

FIGURES



BLOCK A

CROSS SECTIONAL AREA (FT²) = 5687.5
 BLOCK WIDTH (FT) = 190 (wt. ave)
 TOTAL CUBIC FEET = 1,080,625
 TOTAL CUBIC YARDS = 40,023



DESIGNED BY:		DRAWN BY:		CHECKED BY:		APPROVED BY:	
E. Krish		M. Scop		E. Krish		E. Krish	

NO.	DESCRIPTION	DATE	BY:

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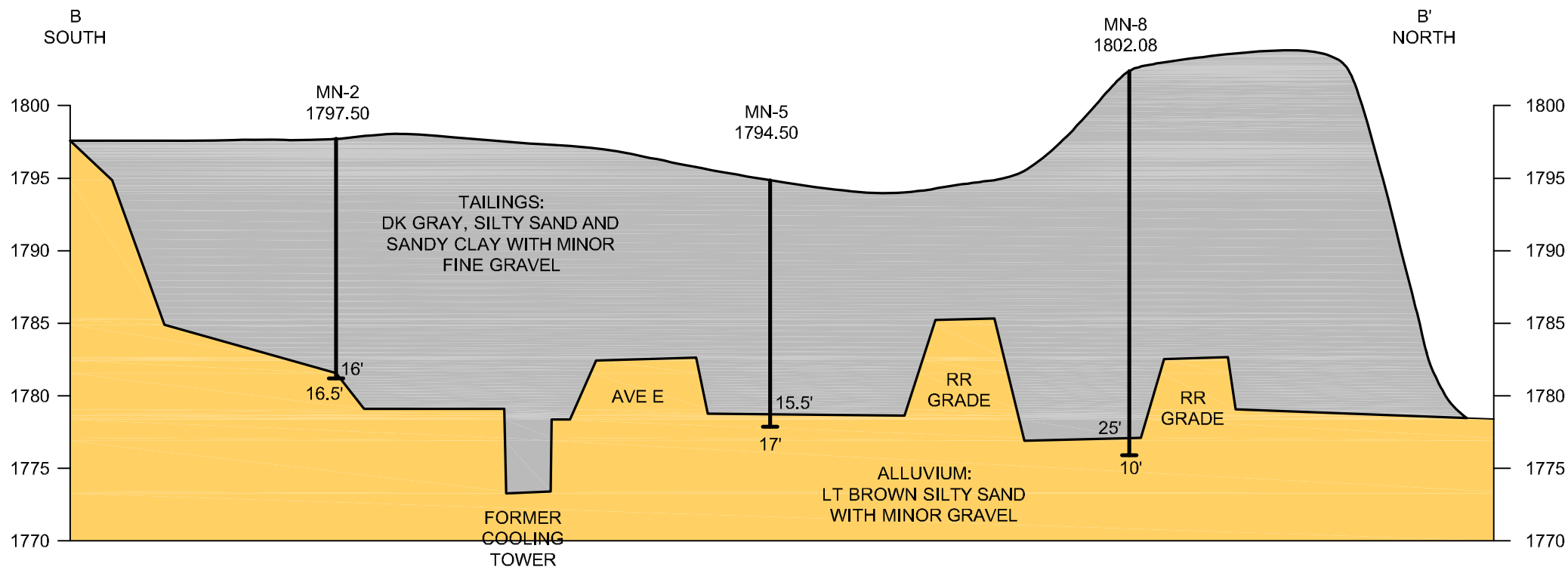
MANGANESE TAILINGS - BLOCK A
NORTH - SOUTH CROSS SECTION A-A'

Tronox Facility
 Henderson, Nevada

SCALE:	DATE:	PROJECT NUMBER:
as noted	3/28/2007	04020-023-420

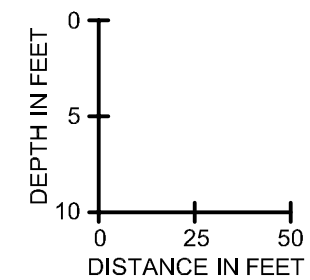
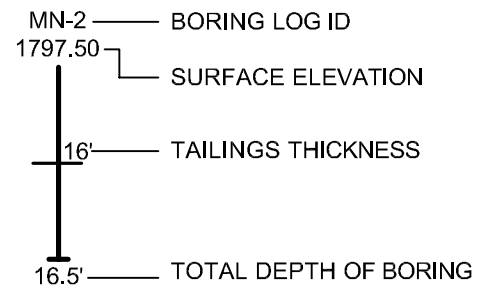
FIGURE NUMBER:
1
SHEET NUMBER:
X

FILENAME:



BLOCK B

CROSS SECTIONAL AREA (FT²) = 7750
 BLOCK WIDTH (FT) = 235
 TOTAL CUBIC FEET = 1,821,250
 TOTAL CUBIC YARDS = 67,453



DESIGNED BY:		DRAWN BY:		CHECKED BY:		APPROVED BY:	
E. Krish		M. Scop		E. Krish		E. Krish	
NO.:		NO.:		NO.:		NO.:	
REVISIONS		DESCRIPTION:		DATE:		BY:	

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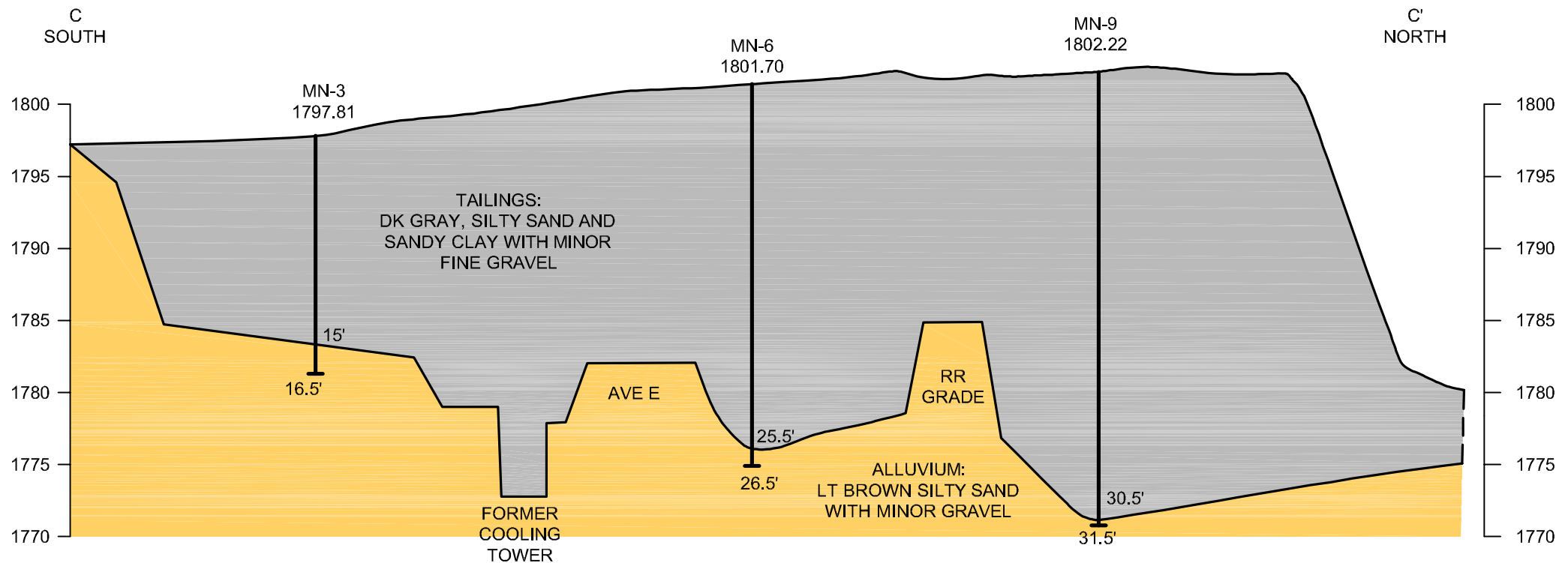
MANGANESE TAILINGS - BLOCK B
NORTH - SOUTH CROSS SECTION B-B'

Tronox Facility
 Henderson, Nevada

DATE: 3/28/2007
 PROJECT NUMBER: 04020-023-420
 SCALE: as noted

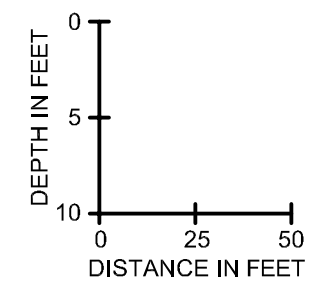
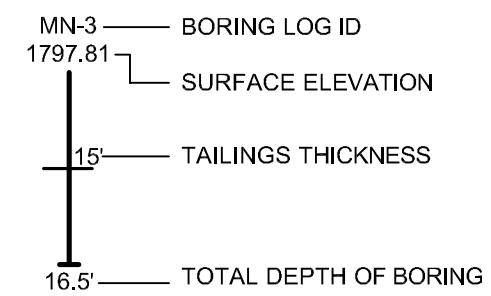
FIGURE NUMBER:
2

SHEET NUMBER:
 X



BLOCK C

CROSS SECTIONAL AREA (FT²) = 9500
 BLOCK WIDTH (FT) = 300
 TOTAL CUBIC FEET = 2,850,000
 TOTAL CUBIC YARDS = 105,555



DESIGNED BY:		DRAWN BY:		CHECKED BY:		APPROVED BY:	
E. Krish		M. Scop		E. Krish		E. Krish	
NO.:		NO.:		NO.:		NO.:	
REVISIONS		DESCRIPTION:		DATE:		BY:	

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MANGANESE TAILINGS - BLOCK C
NORTH - SOUTH CROSS SECTION C-C'

Tronox Facility
 Henderson, Nevada

DATE: 3/28/2007
 PROJECT NUMBER: 04020-023-420
 SCALE: as noted

FIGURE NUMBER:
3

SHEET NUMBER:
 X

TABLES

Table 1. Drilling Statistics for the Manganese Tailings Pile
Tronox Facility, Henderson Nevada

Boring ID	Easting ¹	Northing ¹	Surface Elevation (feet)	Total Depth (feet)	Thickness of Mn Tails (feet)	Depth of Water Perched in Mn Tails (feet bgs)	Bottom Elevation of Mn Tails (feet bgs)	Split Spoon Samples Collected (feet bgs)	Bulk Samples Collected (feet bgs)
MN-1	828446.716	26718384.506	1795.97	16.5	15.5	dry	1780.47	0-1.5	1-5*
								5-6.5	5-10
								10-11.5	10-15
								12.5-14	
								15-16.5	
MN-2	828648.251	26718415.216	1797.50	16.5	16.0	15.0	1781.50	0-1.5	1-5
								5-6.5	5-10
								10-11.5	10-15
								15.5-16.5	
MN-3	828845.441	26718445.992	1797.81	16.5	15.0	14.5	1782.81	0-1.5	1-5
								5-6.5	5-10
								10-11.5	10-15
								15-16.5	
MN-4	828417.304	26718529.372	1796.15	19.0	17.5	17.5	1778.65	0-1.5	5-10
								10-11.5	10-15
								17.5-19	15-18
MN-5	828617.569	26718565.853	1794.50	17.0	15.5	10.0	1779.00	0-1.5	1-5
								10-11.5	5-10
								15.5-17	10-15
MN-6	828816.869	26718596.661	1801.70	26.5	25.5	12.0	1776.20	0-1.5	1-5
								15-16.5	10-15*
								25-26.5	20-25
MN-7	828394.842	26718653.665	1787.67	10.0	5.0	dry	1782.67	0-1.5	1-5
								5-6.5	5-10
MN-8	828593.194	26718692.603	1802.08	26.5	25.0	dry	1777.08	0-1.5	1-5
								15-16.5	10-15
								25-26.5	20-25
MN-9	828795.182	26718716.346	1802.22	31.5	30.5	13.0	1771.72	0-1.5	1-5
								15-16.5	15-20
								25-26.5	25-30*
								30-31.5	

NOTES:


1) NV State Plane Coordinates


bgs = below ground surface


Mn - Manganese


* Bulk samples sent to McClelland Labs, Sparks, Nevada


APPENDIX A


		Client: <i>Tronox</i>					BORING ID: Mn-1			
		Project Number: <i>04020-023-420</i>								
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>					Sheet: <i>1 of 1</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Monitoring Well Installed: <i>No</i>			
		Drilling Method: <i>Hollow Stem Auger</i>			Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i> Screened Interval:			
Weather: <i>Sunny, Windy</i>					Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/13/06 1010</i>		Depth of Boring: <i>16.5'</i>	
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:		Date/Time Finished: <i>9/13/06 1046</i>		Water Level: <i>NA</i>	
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)	
1		0-1.5	17,25,19	18	--	SM	MANGANESE TAILINGS from 0 to 15.5 feet SILTY SAND, dark gray, 60% subangular, fine grained sand, 40% fines, dry, med. density, no odor or staining observed. The top 6 inches of this area are covered with SANDY GRAVEL, light gray, 70% subangular, fine grained gravel, max gravel size is 0.75 inch, 20% sand, 10% silt, dry, medium density, no odor or staining observed.	Mn-1-0-1.5	0-1.5	
2										
3										
4										
5		5-6.5	7,8,8	18	--	SM	SILTY SAND, dark gray, subangular, medium grained sand, fine grained gravel, 65% sand, 30% fines, 5% gravel, low density, dry, some Mn ore, max gravel size 0.75, no odor or staining observed.	Mn-1-5-6.5	5-6.5	
6										
7										
8										
9										
10		10-11.5	2,10,30	18	--	SM	SILTY SAND, dark gray, subangular, medium grained sand, coarse grained gravel, 60% sand, 30% fines, 10% gravel, medium density, moist, some Mn ore, max gravel size 2.5 inchs, no odor or staining observed.	Mn-1-10-11.5	10-11.5	
11										
12										
13		12.5-14	11,12,21	14	--	SM	SILTY SAND, dark gray, subangular, medium grained sand, fine grained gravel, 65% sand, 30% fines, 5% gravel, low density, moist, some Mn ore, max gravel size 0.25 inch, no odor or staining observed.	Mn-1-12.5-14	12.5-14	
14										
15		15-15.5 15.5-16.5	7,21,30	14	--	SM	Mn Tailings-Alluvium Contact	Mn-1-15-16.5	15-16.5	
16						SM	ALLUVIUM at 15.5 feet SILTY SAND, light brown, subangular, medium grained sand, 65% sand, 30% fines, low density, dry, alluvium contact at 15.5 feet, no odor or staining observed. Boring Terminated at 16.5 Feet target depth achieved			
17										
18										
19										
20										
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling	
									NA	
Checked by _____ SWB							Date: 04/09/07 _____			


		Client: <i>Tronox</i>				BORING ID: Mn-2			
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>				Sheet: <i>1 of 1</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>		Elevation:		Monitoring Well Installed: <i>No</i>			
		Drilling Method: <i>Hollow Stem Auger</i>		Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i>			
Weather: <i>Sunny, Windy</i>				Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/13/06 1245</i>			
Drilling Contractor: <i>WDC Drilling Inc.</i>				Ground Elevation:		Date/Time Finished: <i>9/13/06 1302</i>			
						Depth of Boring: <i>16.5'</i>			
						Water Level: <i>15' (perched)</i>			
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	5,4,8	18	--	CL	MANGANESE TAILINGS from 0 to 16 feet SANDY CLAY, dark gray, 80% medium plastic fines, 20% subangular, fine grained sand, moist, medium density, medium plasticity, no odor or staining observed The top 6 inches are covered with SILTY GRAVEL, gray, 70% subangular, fine gravel, max gravel size 0.75, 10% fine grained sand, 20% non to low plastic fines, dry, low density, no odor or staining observed	Mn-2-0-1.5	0-1.5
2									
3									
4									
5		5-6.5	2,3,3	18	--	CL	SANDY CLAY, dark gray, subangular, fine grained sand, 10% sand, 90% fines, soft, high plasticity, moist, no odor or staining observed.	Mn-2-5-6.5	5-6.5
6									
7									
8									
9									
10		10-11.5	1,1,2	16	--	CL	SANDY CLAY, dark gray, subangular, fine grained sand, 10% sand, 90% fines, very soft, high plasticity, moist, no odor or staining observed.	Mn-2-10-11.5	10-11.5
11									
12									
13									
14									
15		15-16	6,12,15	9	--	CL	SANDY CLAY, as above, wet.	Mn-2-15-16.5	15-16.5
16		16-16.5					Mn Tailings-Alluvium Contact		
17						SM	ALLUVIUM at 16 feet SILTY SAND, light brown, subangular, fine grained sand, 60% sand, 40% fines, medium density, dry, alluvium contact 16-16.5 feet, no odor or staining observed. Boring Terminated at 16.5 Feet, target depth achieved.		
18									
19									
20									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/13/06	1302	15' perched
Checked by _____ SWB							Date: 04/09/07 _____		

		Client: <i>Tronox</i>					BORING ID: Mn-3			
		Project Number: <i>04020-023-420</i>								
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>								
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Sheet: <i>1 of 1</i>			
		Drilling Method: <i>Hollow Stem Auger</i>			Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i>		Monitoring Well Installed: <i>No</i>	
Weather: <i>Sunny, Windy</i>					Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/13/06 1314</i>		Depth of Boring: <i>16.5'</i>	
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:		Date/Time Finished: <i>9/13/06 1330</i>		Water Level: <i>15' (perched)</i>	
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)	
1		0-1.5	5,7,5	18	--	CL	MANGANESE TAILINGS from 0 15 feet SILTY CLAY, dark gray, subangular, fine grained sand, 5% sand, 80% fines, dry, medium stiffness, high plasticity, no odor or staining observed. The top 6 inches are	Mn-3-0-1.5	0-1.5	
2							SANDY GRAVEL, gray, 90% subangular, fine grained gravel, max gravel size 0.5 inches, 5% fine grained sand, dry, low density, no odor or staining observed			
3										
4										
5		5-6.5	2,3,4	18	--	CL	SILTY CLAY, dark gray, 90% clay, moist, medium stiffness, high plasticity, no odor or staining observed.	Mn-3-5-6.5	5-6.5	
6										
7										
8										
9										
10		10-11.5	1,1,2	16	--	CL	SANDY CLAY, dark gray, subangular, fine grained sand, 10% sand, 90% fines, very soft, high plasticity, moist, no odor or staining observed.	Mn-3-10-11.5	10-11.5	
11										
12										
13										
14										
15		15-16.5	10,34,40	9	--	CH	SILTY CLAY, dark gray, 95% clay, wet, stiff, high plasticity, no odor or staining observed. Mn Tailings-Alluvium Contact	Mn-3-15-16.5	15-16.5	
16						SM	ALLUVIUM SILTY SAND, light brown, subangular, coarse grained sand, fine grained gravel, 65% sand, 30% fines, 5% gravel, dense, dry, alluvium contact 15-15.5 feet, max gravel size .1, no odor or staining observed.			
17							Boring Terminated at 16.5 Feet, target depth achieved.			
18										
19										
20										
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling	
							9/13/2006	1330	15' perched	
Checked by _____ SWB							Date: 04/09/07 _____			


		Client: <i>Tronox</i>				BORING ID: Mn-4			
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>				Sheet: <i>1 of 1</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>		Elevation:		Monitoring Well Installed: <i>No</i>			
		Drilling Method: <i>Hollow Stem Auger</i>		Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i> Screened Interval:			
Weather: <i>Sunny, Windy</i>				Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/13/06 1353</i>		Depth of Boring: <i>19'</i>	
Drilling Contractor: <i>WDC Drilling Inc.</i>				Ground Elevation:		Date/Time Finished: <i>9/13/06 1407</i>		Water Level: <i>17.5' (perched)</i>	
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	6,4,6	18	--	SM/ML	MANGNESE TAILINGS from 0 to 17.5 feet SILTY SAND TO SANDY SILT, dark gray, 50% subangular, fine grained sand, 50% silt, low density, dry, low plasticity, some iron staining, no odor observed. The top 6 inches are SANDY GRAVEL, light gray, 70% subangular, fine grained gravel, max gravel size 0.25 inches, 20% fine grained sand, 10% silt, dry, low density, no odor or staining observed	Mn-4-0-1.5	0-1.5
2									
3									
4									
5									
6									
7									
8									
9									
10		10-11.5	6,7,5	18	--	ML	SANDY SILT, dark gray, subangular, medium grained sand, 30% sand, 70% fines, low density, moist, medium plasticity, no odor or staining observed.	Mn-4-10-11.5	10-11.5
11									
12									
13									
14									
15									
16									
17						CL	SANDY CLAY, dark gray, subangular, fine grained sand, 30% sand, 70% fines, medium plasticity, stiff, no odor or staining observed.		
18		17.5-19	19,23,20	15	--		Mn Tailings-Alluvium Contact	Mn-4-17.5-19	17.5-19
19						SM	ALLUVIUM at 17.5 SILTY SAND, light brown, subangular, medium grained sand, 65% sand, 30% fines, low density, dry, alluvium contact at 17.5 feet, no odor or staining observed. Boring Terminated at 19 Feet, target depth achieved.		
20									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/13/06	1407	17.5' perched
Checked by _____ SWB							Date: <u>04/09/07</u>		


		Client: <i>Tronox</i>					BORING ID: Mn-5		
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>							
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Sheet: <i>1 of 1</i>		
		Drilling Method: <i>Hollow Stem Auger</i>					Monitoring Well Installed: <i>No</i>		
Sample Type(s): <i>Split Spoon</i>			Boring Diameter: <i>8"</i>		Screened Interval:				
Weather: <i>Sunny, Windy</i>					Logged By: <i>E. Nelson</i>	Date/Time Started: <i>9/13/06 1437</i>	Depth of Boring: <i>17'</i>		
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:	Date/Time Finished: <i>9/13/06 1459</i>	Water Level: <i>10' (perched)</i>		
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	6,7,12	18	--	CL	MANGANESE TAILINGS from 0 to 16 feet SILTY CLAY, dark brown, 90% clay, moist, stiff, medium plasticity, no odor or staining observed. The top 6 inches are SANDY GRAVEL, light gray, 80% subangular, fine grained gravel, max gravel size 0.25 inches, 15% coarse grained sand, 5% silt, dry, low density, no odor or staining observed	Mn-5-0-1.5	0-1.5
2									
3									
4									
5									
6									
7									
8									
9									
10		10-11.5	6,5,6	12	--	CL	SANDY CLAY, dark gray to black, subangular, coarse grained sand, 15% gravel, 30% sand, 55% fines, max gravel size 0.2 inches, stiff, wet, low plasticity, no odor or staining observed.	Mn-5-10-11.5	10-11.5
11									
12									
13									
14							SANDY CLAY, dark gray, subangular, fine grained sand, fine grained gravel, 15% gravel, 35% sand, 50% fines, max gravel size .2, medium plasticity, medium density, no odor or staining observed.		
15									
16		15.5-17	11,15,16	18	--			Mn-5-15.5-17	15.5-17
17						SM	ALLUVIUM at 16 feet SILTY SAND, light brown, subangular, coarse grained sand, fine grained gravel, max gravel size .2, 10% gravel, 40% sand, 50% fines, low density, dry, non-plastic, alluvium contact at 16 feet, no odor or staining observed. Boring Terminated at 17 Feet, target depth achieved.		
18									
19									
20									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/13/06	1448	10' perched
Checked by _____ SWB							Date: 04/09/07 _____		


		Client: <i>Tronox</i>				BORING ID: Mn-6			
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>				Sheet: <i>1 of 2</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>		Elevation:		Monitoring Well Installed: <i>No</i>			
		Drilling Method: <i>Hollow Stem Auger</i>		Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i> Screened Interval:			
Weather: <i>Rainy, Windy</i>				Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/14/06 0728</i>		Depth of Boring: <i>26.5'</i>	
Drilling Contractor: <i>WDC Drilling Inc.</i>				Ground Elevation:		Date/Time Finished: <i>9/14/06 0756</i>		Water Level: <i>12' (perched)</i>	
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	13,6,6	18	--	CL	MANGANESE TAILINGS from 0 to 26 feet CLAY to SANDY CLAY, dark gray, up to 90% medium plastic fines, up to 10% subangular coarse grained sand, dry, stiff, no odor or staining observed. The top 6" are covered with SANDY GRAVEL, light gray, 50% fine grained gravel, max gravel size 0.5", 25% subangular fine to coarse grained sand, 25% non-plastic fines, dry, low density, no odor or staining observed wet at 12 feet	Mn-6-0-1.5	0-1.5
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15		15-16.5	1,2,3	18	--	CL	CLAY to SANDY CLAY, black, 90% medium plastic fines, 10% fine to coarse grained, subangular sand, wet, soft, no odor or staining observed	Mn-6-15-16.5	15-16.5
16									
17									
18									
19									
20									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/14/06	0740	12' perched
Checked by _____ SWB Date: ____/____/2007									

		Client: <i>Tronox</i>				BORING ID: Mn-6			
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>				Sheet: <i>2 of 2</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>		Elevation:		Monitoring Well Installed: <i>No</i>			
		Drilling Method: <i>Hollow Stem Auger</i>		Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i>			
Weather: <i>Rainy, Windy</i>				Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/14/06 0728</i>			
Drilling Contractor: <i>WDC Drilling Inc.</i>				Ground Elevation:		Date/Time Finished: <i>9/14/06 0756</i>			
						Depth of Boring: <i>26.5'</i>			
						Water Level: <i>12' (perched)</i>			
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S.	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
21							MANGANESE TAILINGS (continued)		
22									
23									
24							SANDY CLAY, black, 75% low plastic fines, 25% medium grained subangular sand, wet, stiff, no odor or staining observed		
25		25-26.5	21,45,41	14	--	CL	Mn Tailings-Alluvium Contact	Mn-6-25-26	25-26.5
26						SM	ALLUVIUM at 26 feet SILTY GRAVELLY SAND, light brown, 40% coarse grained, subangular sand, 30% coarse grained gravel, max gravel size 2.5", 30% non-plastic fines, dry, dense, no odor or staining observed. Boring Terminated at 26.5 Feet, target depth achieved.		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/14/06	0740	12' perched
Checked by _____ SWB Date: ____/4/9/2007									

		Client: <i>Tronox</i>					BORING ID: Mn-7			
		Project Number: <i>04020-023-420</i>								
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>					Sheet: <i>1 of 1</i>			
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:					
		Drilling Method: <i>Hollow Stem Auger</i>								
Sample Type(s): <i>Split Spoon</i>			Boring Diameter: <i>8"</i>		Screened Interval:					
Weather: <i>Rainy, Windy</i>					Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/14/06 0816</i>		Depth of Boring: <i>10'</i>	
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:		Date/Time Finished: <i>9/14/06 0824</i>		Water Level: <i>NA</i>	
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)	
1		0-1.5	4,3,3	18	--	CL	MANGANESE TAILINGS from 0 to 5.5 feet SANDY CLAY, dark gray, 70% low plastic fines, 30% coarse grained, subangular sand, moist, medium stiffness, no odor or staining observed. The top 6" are covered with GRAVELLY SAND, light gray, 40% fine grained gravel, max gravel size 0.2", 40% coarse grained, subangular sand, 20% non-plastic fines, dry, low density, no odor or staining observed	Mn-7-0-1.5	0-1.5	
2										
3										
4										
5		5-6.5	18,38,42	14	--	SM	SILTY SAND, gray mixed with brown, 60% coarse grained, subangular sand, 40% low plastic fines, low density, no odor or staining observed at 5 ft. Mn Tailings-Alluvium Contact	Mn-7-5-6.5	5-6.5	
6						GM	ALLUVIUM at 5.5 feet SILTY GRAVELLY SAND, light brown, 40% coarse grained, subangular sand, 35% fine grained gravel, max gravel size 0.75", 25% low plastic fines, dense, dry, no odor or staining observed.			
7										
8										
9										
10							Boring Terminated at 10 Feet			
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling	
									NA	
Checked by _____ SWB Date: ____/4/9/2007										

		Client: <i>Tronox</i>					BORING ID: Mn-8		
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>					Sheet: <i>1 of 2</i>		
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Monitoring Well Installed: <i>No</i>		
		Drilling Method: <i>Hollow Stem Auger</i>			Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i> Screened Interval:		
Weather: <i>Rainy, Windy</i>					Logged By: <i>E. Nelson</i>	Date/Time Started: <i>9/14/06 0839</i>	Depth of Boring: <i>26.5'</i>		
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:	Date/Time Finished: <i>9/14/06 0908</i>	Water Level: <i>NA</i>		
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	5,6,9	18	--	CL	MANGANESE TAILINGS from 0 to 25 feet SANDY CLAY, dark gray, 70% medium plasticity clay, 25% medium grained, subangular sand, dry, stiff, no odor or staining observed. The top 6" are SANDY GRAVEL, light gray, 60% fine grained gravel, max gravel size 0.5", 30% coarse grained, subangular sand, 10% non-plastic fines, dry, low density, no odor or staining observed.	Mn-6-0-1.5	0-1.5
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15		15-16.5	25,33,35	12	--	SM	SILTY SAND, dark gray, 50% coarse grained, subangular sand, 45% low plastic fines, 5% fine grained gravel, max gravel size 0.2, dry, dense, 6" concrete slab encountered at 15.5', no odor or staining observed	Mn-8-15-16.5	15-16.5
16									
17									
18									
19									
20									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
									NA
Checked by _____ SWB							Date: 4/9/2007		

		Client: <i>Tronox</i>					BORING ID: Mn-8		
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>							
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Sheet: <i>2 of 2</i>		
		Drilling Method: <i>Hollow Stem Auger</i>					Monitoring Well Installed: <i>No</i>		
Sample Type(s): <i>Split Spoon</i>			Boring Diameter: <i>8"</i>		Screened Interval:				
Weather: <i>Rainy, Windy</i>					Logged By: <i>E. Nelson</i>	Date/Time Started: <i>9/14/06 0839</i>	Depth of Boring: <i>26.5'</i>		
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:	Date/Time Finished: <i>9/14/06 0908</i>	Water Level: <i>NA</i>		
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
21							MANGANESE TAILINGS (continued)		
22									
23									
24							SANDY SILT, dark gray, 60% low plastic fines, 40% coarse grained, subangular sand, moist, medium density, no odor or staining observed at 25 feet.		
25		25-26.5	11,20,26	18	--	ML	Mn Tailings-Alluvium Contact	Mn-8-25-26	25-26.5
26						SM	ALLUVIUM at 25.5 feet SILTY GRAVELLY SAND, light brown, 40% coarse grained, subangular sand, 30% fine grained gravel, max gravel size 0.2" 30% non-plastic fines, dry, medium density, no odor or staining observed Boring Terminated at 26.5 Feet, target depth achieved.		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
									NA
Checked by _____ SWB Date: ____/4/9/2007									

		Client: <i>Tronox</i>					BORING ID: Mn-9		
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>					Sheet: <i>1 of 2</i>		
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>			Elevation:		Monitoring Well Installed: <i>No</i>		
		Drilling Method: <i>Hollow Stem Auger</i>			Sample Type(s): <i>Split Spoon</i>		Boring Diameter: <i>8"</i> Screened Interval:		
Weather: <i>Rainy, Windy</i>					Logged By: <i>E. Nelson</i>	Date/Time Started: <i>9/14/06 0922</i>	Depth of Boring: <i>26.5'</i>		
Drilling Contractor: <i>WDC Drilling Inc.</i>					Ground Elevation:	Date/Time Finished: <i>9/14/06 0952</i>	Water Level: <i>13' (perched)</i>		
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
1		0-1.5	7,7,7	18	--	CL	MANGANESE TAILINGS from 0 to 31 feet CLAY to SANDY CLAY, dark gray, 90% medium plastic fines, 10% fine grained, subangular sand, moist, medium stiffness, no odor or staining observed. The top 6" are covered SANDY GRAVEL, light gray, 60% fine grained gravel, max gravel size 0.3, 30% coarse grained, subangular sand, 10% non-plastic fines, dry, low density, no odor or staining observed	Mn-9-0-1.5	0-1.5
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15		15-16.5	1,2,3	18	--	CH	CLAY, dark gray to black, 90%-100% high plastic fines, wet, very soft, some white clay material encountered, no odor observed	Mn-9-15-16.5	15-16.5
16									
17									
18									
19									
20									
NOTES: The boring was backfilled with native soil and the surface restored						Date	Time	Depth to groundwater while drilling	
						9/14/06	0930	13' perched	
Checked by _____ SWB						Date: ____/4/9/2007			

		Client: <i>Tronox</i>				BORING ID: Mn-9			
		Project Number: <i>04020-023-420</i>							
		Site Location: <i>Manganese tailings pile, Henderson, NV</i>							
		Coordinates: <i>T 22S, R 62E, SE 1/4 sec 12</i>		Elevation:		Sheet: <i>2 of 2</i>			
		Drilling Method: <i>Hollow Stem Auger</i>				Monitoring Well Installed: <i>No</i>			
Sample Type(s): <i>Split Spoon</i>			Boring Diameter: <i>8"</i>		Screened Interval:				
Weather: <i>Rainy, Windy</i>				Logged By: <i>E. Nelson</i>		Date/Time Started: <i>9/14/06 0922</i>			
Drilling Contractor: <i>WDC Drilling Inc.</i>				Ground Elevation:		Date/Time Finished: <i>9/14/06 0952</i>			
						Depth of Boring: <i>26.5'</i>			
						Water Level: <i>13' (perched)</i>			
Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)	Lab Sample ID	Lab Sample Depth (Ft.)
21							MANGANESE TAILINGS (continued)		
22									
23									
24									
25		25-26.5	6,8,7	1.5	--	CH	CLAY, black, 100% high plastic fines, wet, medium stiffness, no odor or staining observed	Mn-9-25-26	25-26.5
26									
27									
28									
29									
30		30-31.5	10,27,31	18	--	CL	CLAY to SANDY CLAY, black, 85% medium plastic fines, 15% coarse grained, subangular sand, wet, stiff, no odor or staining observed	Mn-9-30-31	30-31.5
31						SM	ALLUVIUM at 31 feet SILTY SAND, brown, 50% coarse grained, subangular sand, 40% low plastic fines, 10% fine grained gravel, max gravel size .2", dry, medium density, no odor or staining observed. <small>Boring Terminated at 31.5 Feet, target depth achieved.</small>		
32									
33									
34									
35									
36									
37									
38									
39									
40									
NOTES: The boring was backfilled with native soil and the surface restored							Date	Time	Depth to groundwater while drilling
							9/14/06	0930	13' perched
Checked by _____ SWB Date: ____/____/2007									



environmental management, inc.

From: Deni Chambers, Principal-in-Charge
Derrick Willis, Project Manager

Date: July 26, 2010

To: Shannon Harbour, PE
Nevada Division of Environmental Protection

RE: Response to Nevada Division of Environmental Protection's July 20, 2010
Comments on *TRX Letter Submittal RE: Manganese Tailings Pile Confirmation
Sampling*, dated July 9, 2010

Response to Comments

Northgate Environmental Management, Inc. (Northgate) submits this Response to Comments on the *TRX Letter Submittal RE: Manganese Tailings Pile Confirmation Sampling* on behalf of Tronox LLC (Northgate, July 9, 2010). Tronox has reviewed the following Nevada Division of Environmental Protection (NDEP) comments and has revised the submittal accordingly.

1. *TRX should provide a brief background section discussing a CSM-based description of the manganese tailings pile area including history and a list of wastes and potential contaminants that were placed or occurred in this area. Please note that the liquids discovered during the excavation should be discussed for potential impact and targeted sampling.*

Response: This revised document includes background information regarding the history of the manganese (Mn) tailings pile.

2. *During the Phase B Source Area Investigation, TRX collected samples from the surface (0.0-0.5 fbgs), 5 fbgs, and 10 fbgs; however, TRX is only proposing to sample at the surface and 0.5-1.0 fbgs interval. TRX should conduct the sampling of this area in a manner consistent with previous sampling that will be used in a Health Risk Assessment for this Remediation Zone.*

Response: As discussed in the July 23, 2010 NDEP-Tronox-Northgate Conference Call, eight borings were previously advanced in the Mn tailings area as part of the Phase B investigation, and deeper soil samples were collected from below the interface between the Mn tailings and native soil that characterize the soil as clean. These clean boring locations are shown on Figure 1. Soil samples collected from these borings were analyzed for the Phase B suite of analyses; therefore, analyzing the Mn tailings confirmation samples would be repetitious. The shallow surface samples proposed are to confirm that Mn tailings were successfully removed.

3. *TRX should justify the elimination of chemical analytical suites from the Phase B broad suite analysis using CSM-based discussion. All chemical suites used in Phase B should be sampled unless otherwise approved by the NDEP.*

Response: Please see Response to Comment 2.

4. *TRX should acknowledge and discuss the former cooling tower that is located in the manganese tailings area and how this area will be characterized.*

Response: The cooling tower (LOU 46) was investigated as part of the Phase B investigation with eleven borings to depths of approximately 40 feet below ground surface. Select samples were analyzed for perchlorate, metals, hexavalent chromium, radionuclides, total petroleum hydrocarbons, dioxin/furans, and asbestos in accordance with the NDEP-approved Phase B sampling and analysis plans.

5. *TRX should also propose sampling on the southern boundary of the manganese tailings area.*

Response: The southern boundary is an area of active operations. There is an active utility corridor that runs along this boundary precluding drilling. The area will be addressed in the future when operations cease and the utilities are no longer active. It should be noted that Phase B borings in the Mn tailings area indicate that soils are below basic comparison levels.

6. *Figure 1, NDEP provides the following comments:*
 - a. *Please clarify what the Manganese Boring Locations are and if samples were collected, please present the results.*
 - b. *Please provide the Phase B results in this Figure.*

Response:

- a. MN-1 through MN-9 were borings advanced through the Mn tailings for waste profiling characteristics. The borings were not advanced into soil. The Mn tailings characterization report is included as Attachment A.
- b. Figure 1 has been revised to show the Phase B sampling locations. Results from the Phase B sampling are presented in Table 2.

