

March 13, 2007

Mr. James Innes
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Lansing District Office
525 W. Allegan
Constitution Hall, 4th Floor, North
Lansing, Michigan 48909-7742

Subject: Amendment to Die Storage Lot Site Investigation Report

Dear Mr. Innes:

On behalf of General Motors Corporation, O'Brien & Gere is submitting this letter to present the results of the additional site investigation (SI) activities conducted at the Die Storage Lot Site to the Michigan Department of Environmental Quality (MDEQ). The additional SI activities were conducted in response to the MDEQ July 10, 2006 comment letter on the SI Report. The additional SI activities were performed per the work plan described in our October 12, 2006 letter, which was approved by the MDEQ on November 27, 2006. The field methods and results of the recent activities are discussed in the following sections.

Field Activities

O'Brien & Gere installed twelve soil borings (OBG-208A through OBG-212A, OBG-214A through OBG-217A, and OBG-219A through OBG-221A) to a depth of 5 feet below grade (fbg). These perimeter borings were installed to evaluate potential barium and lead impacts within the fill material outside the fenced area near the perimeter of the site. SI Report Figure 3 is attached and was revised to include these perimeter borings locations.

Nine soil borings (OBG-228A through OBG-228I, Figure 3) to depths of up to 20 fbg were also installed adjacent to boring OBG-228 (Figure 3). The OBG-228 area borings were installed to delineate the extent of benzene, ethylbenzene, toluene, o-xylenes, and p,m-xylenes (BETX) source material impacts as defined by the generic soil saturation concentration (i.e., Csat). Samples were also collected beneath the impacted zones to delineate the vertical extent of impact in this area.

Soil borings were installed in accordance with the approved August 2004 Work Plan and GM Field Method Guideline 2.3 (FMG 2.3). Field data was recorded in a field book. Soil borings were installed using Geoprobe ® drilling techniques and samples were collected using 5-foot long macro-core

samplers. Subsurface soil samples were collected in accordance with FMG 6.1. and were collected at the zone of greatest impact based on visual, olfactory, and photoionization detector (PID) observations during drilling. The soil samples from the perimeter borings were collected from the fill and slag horizon at each of the boring locations. The soil samples from the OBG-228 area boring locations were collected from a peat layer exhibiting elevated PID readings and at selected locations deeper samples were collected to evaluate the vertical extent of impacts.

The perimeter soil boring samples were submitted to the analytical laboratory for lead (fine and coarse fractions) and barium analysis. The soil samples from the OBG-228 area borings were submitted to the analytical laboratory for BETX analysis. Appropriate chain of custody and quality assurance/quality control (QA/QC) procedures were utilized as described in the quality assurance project plan (QAPP). A Level II analytical data package was prepared by the laboratory for the soil samples.

In addition to the soil boring program, monitoring wells MW-11 and MW-13 were proposed for abandonment because the wells were purportedly abandoned by filling the wells with bentonite; however, no documentation of the abandonment is available. Monitoring well MW-11 was scheduled for abandonment but could not be located and appears to have been removed during the renovations performed by the railroad company when the railroad was decommissioned. A 20 foot by 30 foot by up to 2 foot deep excavation was conducted in the area where MW-11 was previously located, but MW-11 was not located. Monitoring well MW-13 was located and abandoned by overdrilling the well to remove the well casing and screen to a depth of 36 fbg. The boring was then backfilled with coarse granular bentonite, which was hydrated during installation, and the surface was capped with cement. Attachment A contains photo documentation of the former MW-11 excavation and the well abandonment record for MW-13.

Physical Findings

The perimeter soil borings installed during the additional SI activities generally consisted of a gravel or vegetation cap, depending on the location of the boring, underlain by a layer of moderate yellowish brown, silty SAND and gravel down to 2 to 3 fbg. Underlying the surficial fill material was another layer of fill soils consisting of either grayish olive, damp, silty CLAY, little sand and gravel or moderate yellowish brown, moist, sandy CLAY, orange mottling down to 5 fbg. Cinders and slag were observed at approximately 2 to 3 fbg in the perimeter soil borings. Attachment B contains the soil boring logs for the recently completed borings.

The OBG-228 area soil borings installed during the additional SI activities generally consisted of a concrete cap followed by gravel down to 1.5 fbg. Underlying the cap and gravel was a layer of moderate yellowish brown, damp, silty SAND, some gravel, some cinders and slag. Beneath this layer a 6 inch to 1 foot thick layer of dark brown, moist, sandy CLAY, roots (a peat) at approximately 7 fbg was observed. Underlying the peat seam was a layer of grayish olive, moist, sandy CLAY, down depths of up to 20 fbg.

The additional SI activities borings confirm the geology previously identified during the SI.

Analytical Results

Table 6 from the SI Report (attached) was revised to include the soil analytical data for the site including the recently collected data. Attachment C contains the analytical reports for the recently collected data.

The soil sampling results from the perimeter soil borings collected outside the fenced area within the fill material indicate no exceedances of the MDEQ criteria. The samples collected during the SI indicate that soil impacts are contained within the DSL property boundary and pose a minimal risk under a commercial or industrial closure scenario.

The soil samples from soil borings OBG-228D and OBG-228G, which are adjacent to previous soil boring OBG-228, contained BETX constituents above MDEQ criteria. The analytical results for the soil samples from OBG-228B, G and I define the extent of impacts above the generic Csat east, west and north, respectively of OBG-228. The sample from OBG-228D contained toluene and xylenes above the generic Csat; however, OBG-226 located about 15 ft southwest of OBG-228D defines the extent of impacts above Csat south of OBG-228. The results from the recent investigations indicate that the Csat impacted area surrounding boring OBG-228 is isolated to an area of approximately 60 ft by 70 ft in the peat material at depths of approximately 6 to 8 fbg. Samples collected below the peat material define the Csat impacts vertically.

Please note that the GM project manager has changed from David Worrell to Fred Rindhage. Mr. Rindhage can be reached at the same address as David Worrell and at (248) 753-5790 or fred.w.rindhage@gm.com. If you have any questions or require further information, please contact Clifford Yantz or me at (248) 477-5701.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Scott L. Cormier, P.E.
Vice President

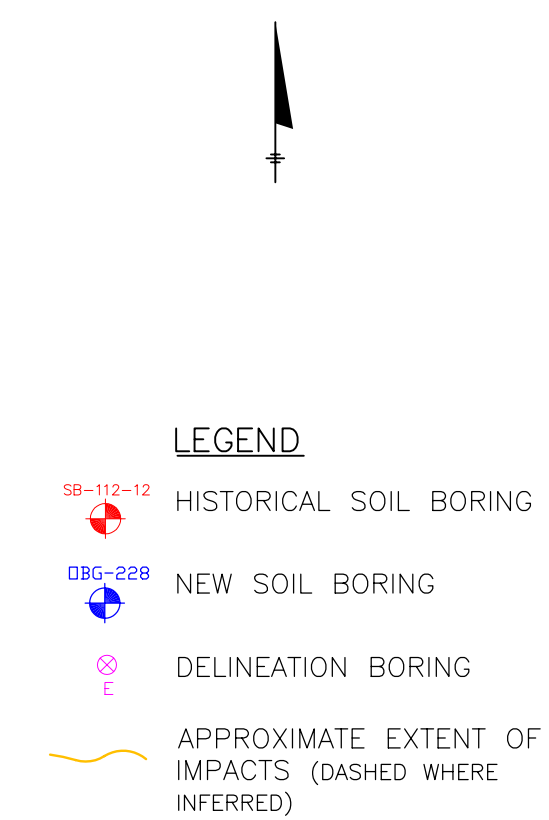
cc: Fred Rindhage, P.E., CHMM - GM
Clifford Yantz, P.G. - O'Brien & Gere

TABLES

Table 6
REALM
Die Storage Lot
Soil Analytical Results

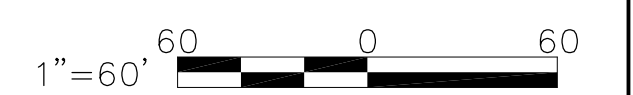
Boring ID/ Sample Depth		MDEQ Part 201 Generic Cleanup Criteria - Statewide Default Background Levels	MDEQ Part 201 Generic Cleanup Criteria - Industrial Drinking Water Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - GSI Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - Industrial Soil Direct Contact Criteria	MDEQ Part 201 Generic Cleanup Criteria - Res. Soil Volatilization to Indoor Air Criteria	MDEQ Part 201 Generic Cleanup Criteria - Ind. Soil Volatilization to Indoor Air Criteria	Maximum Concentration Detected	OBG-200 8-10'	OBG-201 3-5'	OBG-202 2-4'	OBG-203 2-4'	OBG-204 5-7'	OBG-205 7-9'	OBG-206 8-10'	OBG-207 8-10'	OBG-208 5-7'	OBG-208A 3-4'	OBG-209 5-7'	OBG-209A 3-4'	OBG-210 4-6'	OBG-210A 2-3'	OBG-211 4-6'	OBG-211A 3-4'	OBG-212 4-6'	OBG-212A 2-3'	OBG-213 4-6'	OBG-214 4-6'	
Sample Date		Units							4/12/2005	4/12/2005	4/12/2005	4/12/2005	4/12/2005	4/12/2005	4/12/2005	4/13/2005	4/13/2005	4/13/2005	1/17/2007	4/13/2005	1/17/2007	4/13/2005	1/17/2007	4/13/2005	1/17/2007	4/13/2005	1/17/2007	4/13/2005	4/14/2005
Benzene		ug/kg	NC	100	4,000 (X)	400,000 (C)	1,600	8,400	3,000	<50	<60	<50	<70	<60	<60	<50	<60	<60	NA	<50	NA	<50	NA	<60	NA	<50	NA	<50	
Cyclohexane		ug/kg	NC	NC	NC	NC	NC	NC	130	--	--	--	--	--	--	--	--	--	NA	--	NA	--	NA	--	NA	--	NA	--	
Methyl cyclohexan		ug/kg	NC	NC	NC	NC	NC	NC	900	--	--	--	--	--	--	--	--	--	NA	--	NA	--	NA	--	NA	--	NA	--	
Methyl acetate		ug/kg	NC	NC	NC	NC	NC	NC	500	--	--	--	--	--	--	--	--	--	NA	--	NA	--	NA	--	NA	--	NA	--	
Ethylbenzene		ug/kg	NC	1,500	360	140,000 (C)	87,000	140,000 (C)	113,000	<50	<60	<50	10	<60	<60	<50	<60	<60	NA	<50	NA	<50	NA	<60	NA	<60	NA	<50	
Isopropylbenzene		ug/kg	NC	260,000	ID	390,000 (C)	390,000 (C)	390,000 (C)	19,000	<50	<60	<50	<70	<60	<60	<50	<60	<60	NA	<50	NA	<50	NA	<60	NA	<60	NA	<50	
4-Methyl-2-pentanone (MIBK)		ug/kg	NC	100,000	ID	2,700,000 (C)	2,700,000 (C)	2,700,000 (C)	2,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	<3,000	
Toluene		ug/kg	NC	16,000	2,800	250,000 (C)	250,000 (C)	250,000 (C)	3,020,000	<50	<60	<50	90	<60	<70	<50	<60	290	NA	<50	NA	<50	NA	<60	NA	<60	NA	<50	
1,2,4-Trimethylbenzene		ug/kg	NC	4,200	1,800	1,100,000 (C, DD)	1,100,000 (C)	110,000 (C)	40	<100	<100	<100	<100	<100	<100	<100	<100	NA	40	NA	<100	NA	<100	NA	<100	NA	<100	<100	
Naphthalene		ug/kg	NC	35,000	870	52,000,000	250,000	470,000	70	<300	<400	<400	<400	<400	<300	<400	<400	NA	70	NA	<300	NA	<400	NA	<400	NA	<300	<300	
o-xylenes		ug/kg	NC	5,600	700	150,000 (C)	150,000 (C)	150,000 (C)	125,000	<50	<60	<50	30	<60	<60	<50	<60	<60	NA	40	NA	<50	NA	<60	NA	<60	NA	<50	
p,m-xylenes		ug/kg	NC	5,600	700	150,000 (C)	150,000 (C)	150,000 (C)	366,000	<50	<60	<50	60	<60	<60	<50	<60	40	NA	60	NA	<50	NA	<60	NA	<60	NA	<50	
Barium		mg/kg	75	1,300	140 (G, X)	130,000	NLV	NLV	292	22.0	75.8	41.5	101.0	41.4	39.5	29.4	61.0	20.9	17.2	27.8	16.8	75.7	29.7	76.1	21.0	53.5	67.9	8.7	35.3
Lead - fine		mg/kg	21	700	840 (G, X)	900 (DD)	NLV	NLV	2,120	20.3	26.0	20.5	208.0	35.5	44.2	21.4	16.7	10.3	26.9	11.1	29.2	17.4	33.5	27.6	63.2	30.9	161.0	11.1	11.4
Lead - coarse		mg/kg	21	700	840 (G, X)	900 (DD)	NLV	NLV	149	4.5	10.0	5.3	102.0	5.1	26.7	5.9	5.3	4.1	8.0	5.5	7.3	7.2	18.1	9.7	21.3	6.7	94.1	2.9	5.7
Boring ID/ Sample Depth		MDEQ Part 201 Generic Cleanup Criteria - Statewide Default Background Levels	MDEQ Part 201 Generic Cleanup Criteria - Industrial Drinking Water Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - GSI Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - Industrial Soil Direct Contact Criteria	MDEQ Part 201 Generic Cleanup Criteria - Res. Soil Volatilization to Indoor Air Criteria	MDEQ Part 201 Generic Cleanup Criteria - Ind. Soil Volatilization to Indoor Air Criteria	Maximum Concentration Detected	OBG-214A 1-2'	OBG-215 4-6'	OBG-215A 2-3'	OBG-216 8-10'	OBG-216A 1-2'	OBG-217 6-8'	OBG-217A 1-2'	OBG-218 3-5'	OBG-219 3-5'	OBG-219A 1-2'	OBG-220 5-7'	OBG-220A 2-3'	OBG-221 5-7'	OBG-221A 1-2'	OBG-222 3-5'	OBG-223 6-8'	OBG-224 6-8'	OBG-225 8-10'	OBG-226 8-10'	OBG-226 18-20'	
Sample Date		Units							1/17/2007	4/14/2005	1/17/2007	4/14/2005	1/17/2007	4/14/2005	1/17/2007	4/14/2005	4/14/2005	1/17/2007	4/14/2005	1/17/2007	4/14/2005	1/17/2007	4/15/2005	4/15/2005	4/15/2005	4/15/2005	9/19/2005	9/19/2005	
Benzene		ug/kg	NC	100	4,000 (X)	400,000 (C)	1,600	8,400	3,000	NA	<50	NA	<60	NA	<60	NA	<60	NA	<60	NA	<70	NA	<50	<60	<60	<60	200	360	
Cyclohexane		ug/kg	NC	NC	NC	NC	NC	NC	130	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	--	--	--	60	<50	
Methyl cyclohexan		ug/kg	NC	NC	NC	NC	NC	NC	900	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	--	--	--	340	<50	
Methyl acetate		ug/kg	NC	NC	NC	NC	NC	NC	500	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	--	--	--	<3000	<3000	
Ethylbenzene		ug/kg	NC	1,500	360	140,000 (C)	87,000	140,000 (C)	113,000	NA	<50	NA	<60	NA	<60	NA	<60	NA	<60	NA	<70	NA	<50	<60	<60	<60	4,970	<50	
Isopropylbenzene		ug/kg	NC	260,000	ID	390,000 (C)	390,000 (C)	390,000 (C)	19,000	NA	<50	NA	<60	NA	<60	NA	<60	NA	<60	NA	<70	NA	<50	<60	<60	<60	1,300	<50	
4-Methyl-2-pentanone (MIBK)		ug/kg	NC	100,000	ID	2,700,000 (C)	2,700,000 (C)	2,700,000 (C)	2,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	NA	<3,000	<3,000	<3,000	<3,000	2,000	900	
Toluene		ug/kg	NC	16,000	2,800	250,000 (C)	250,000 (C)	250,000 (C)	3,020,000	NA	10	NA	<60	NA	50	NA	<60	80	NA	20	NA	<70	NA	<50	<60	520	4,130	760	
1,2,4-Trimethylbenzene		ug/kg	NC	4,200	1,800	1,100,000 (C, DD)	1,100,000 (C)	110,000 (C)	40	NA	<100	NA	<100	NA	<100	NA	<100	<100	NA	<100	NA	<100	NA	<100	<100	<100	--	--	
Naphthalene		ug/kg	NC	35,000	870	52,000,000	250,000	470,000	70	NA	<400	NA	<400	NA	<400	NA	<400	<400	NA	<400	NA	<400	NA	<400	<400	<400	--	--	
o-xylenes		ug/kg	NC	5,600	700	150,000 (C)	150,000 (C)	150,000 (C)	125,000	NA	<50	NA	<60	NA	<60	NA	<60	NA	<60	NA	<70	NA	<50	<60	<60	<60	2,200	20	
p,m-xylenes		ug/kg	NC	5,600	700	150,000 (C)	150,000 (C)	150,000 (C)	366,000	NA	<50	NA	<60	NA	<60	NA	<60	<60	NA	<60	NA	<70	NA	<50	<60	<60	70	19,500	
Barium		mg/kg	75	1,300	140 (G, X)	130,000	NLV	NLV	292	84.3	44.0	25.3	48.9	48.0	47.5	10.4	48.0	40.0	73.8	55.5	60.6	96.3	27.3	46.1	60.9	79.3	10.5	76.5	33.4
Lead - fine		mg/kg	21	700	840 (G, X)	900 (DD)	NLV	NLV	2,120	296.0	17.1	37.6	27.1	45.6	34.9	97.3	29.8	27.5	483.0	23.9	53.2	62.2	56.4	22.2	27.2	30.4	19.7	23.7	12.8
Lead - coarse		mg/kg	21	700	840 (G, X)	900 (DD)	NLV	NLV	149	192.0	4.8	13.3	5.4	8.1	6.8	11.4	8.5	5.6	262.0	5.7	23.0	13.2	26.8	6.8	6.0	16.9	3.7	14.3	4.8
Boring ID/ Sample Depth		MDEQ Part 201 Generic Cleanup Criteria - Statewide Default Background Levels	MDEQ Part 201 Generic Cleanup Criteria - Industrial Drinking Water Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - GSI Protection Criteria	MDEQ Part 201 Generic Cleanup Criteria - Industrial Soil Direct Contact Criteria	MDEQ Part 201 Generic Cleanup Criteria - Res. Soil Volatilization to Indoor Air Criteria	MDEQ Part 201 Generic Cleanup Criteria - Ind. Soil Volatilization to Indoor Air Criteria	Maximum Concentration Detected	OBG-227 2-4'	OBG-227 8-10'	OBG-228 8-10'	OBG-228 18-20'	OBG-228B 7-8'	OBG-228															

FIGURES



REALM
DIE STORAGE LOT
FLINT, MICHIGAN

FIGURE 3



FILE NO. 4966.34573-002
JULY 2008

ATTACHMENT A

**MW-11 Excavation Photographs
and MW-13 Abandonment Log**

Photograph Log



Excavation to look for historical monitoring well MW-11. Photo taken on January 16, 2007 looking east with monitoring well MW-19 in the foreground.



Excavation to look for historical monitoring well MW-11. Photo taken on January 16, 2007 looking northeast.

ATTACHMENT B

Soil Boring Logs

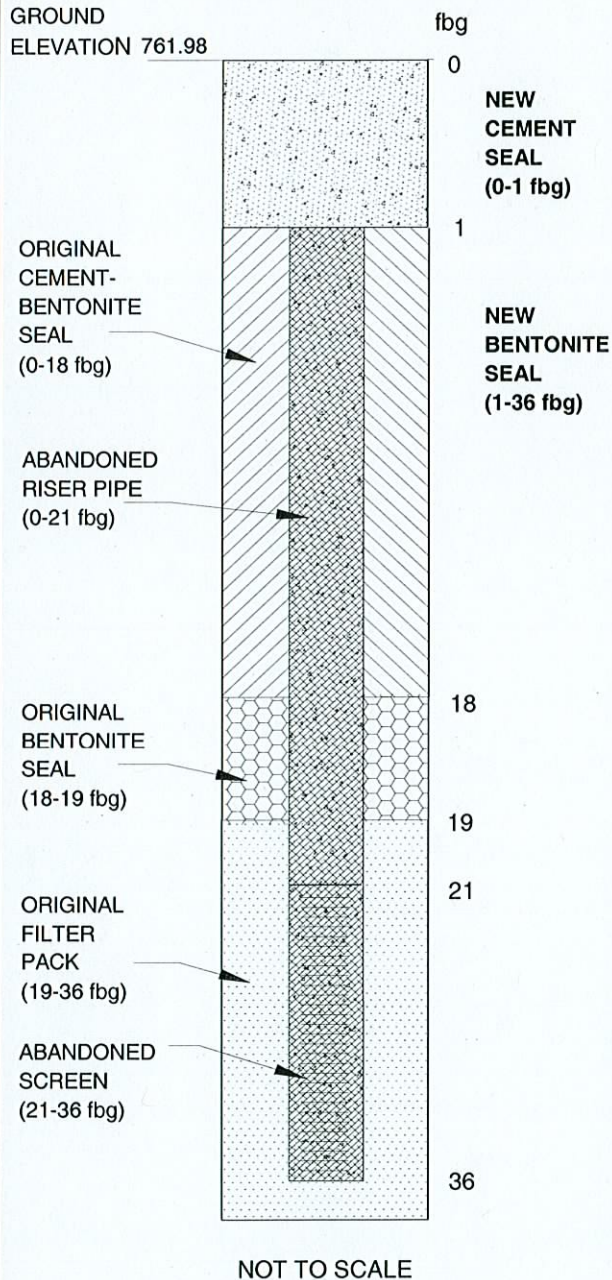
WELL ABANDONMENT LOG

Well ID: MW-13

Project: Die Storage Lot
Location: Flint, Michigan
Project No.: 4966/34573

Client: GM
Date Installed: 11/13/87
Date Abandoned: 1/16/07

WELL ABANDONMENT DETAIL



Inspection Notes:

Inspector: Mike Robison
Drilling Contractor: Prosonic Corporation
Type of Well: Environmental Monitoring Well

Abandonment Method:

Type: (OVERDRILLED) Pulled casing & screen
Date of Casing Removal: 1/16/2007

Drilling Method:

Type: auger Diameter: 4.25 inch
Casing: NA

Seal(s):

Type: Cement Interval: 0 - 1 fbg
Type: Bentonite chips Interval: 1 to 36 fbg

Riser Pipe Removed:

Material: PVC Diameter: 2-inch
Interval: grade to 21 fbg

Screen Removed:

Material: PVC Diameter: 2-inch
Interval: 21 - 36 fbg (15 ft length screen)

Notes:

1. Overdrilled well and removed riser and casing.
2. Steel protective casing, cement collar and roadbox removed.
3. Surface restored with cement from grade to 1 fbg.
4. Abandoned in accordance with ASTM D5299-92 methods.

**O'BRIEN & GERE**
ENGINEERS, INC.**SOIL BORING LOG**

BORING I.D.: OBG-208A

PAGE 1 OF 1

CLIENT: General Motors
PROJECT NAME: Die Storage Lot Investigation
PROJECT LOCATION: Flint, Michigan
FILE NO.: 4966/34573Boring Location: At northern portion of Subject Property at CSX Railroad and east of Retention Basin
Drilling equipment: Geoprobe 6600 ATV
Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia.
Borehole Diameter: 2.5 inches
Total Depth: 5 feet below gradeSurface Elevation (ft MSL):
Top of Casing Elevation (ft MSL):
Northing:
Easting:
Depth to ground water:BORING COMPANY: Prosonic Corporation
FOREMAN: Chris Barden
OBG GEOLOGIST: Mike RobisonStart date: 1/17/2007
Completion date: 1/17/2007

LEGEND: Cement/grout #0 Sand Pack Screen Riser Bentonite

DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5'	full		gravel (FILL)			
1				dark yellowish orange 10 YR 6/6, damp silty SAND, little gravel	1' SM		
2							0.0
3			*	black cinders and silty SAND (FILL)	3' SM		
4				dark yellowish orange 10 YR 6/6, moist silty SAND, little gravel	3.3' SM		0.0
5				End of Boring at 5 fbg			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-209A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At northern portion of Subject Property at CSX Railroad and east of Retention Basin Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/17/2007 Completion date: 1/17/2007		LEGEND:  Cement/grout  #0 Sand Pack  Bentonite  Screen  Riser	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing
0	0 - 5	full		gravel (FILL)			
1				dusky brown, 10 YR 6/6, damp silty SAND, roots	1' SM		
2							0.0
3				dark yellowish orange 10 YR 6/6, damp silty SAND, little gravel	2'		
4			*	dusky brown, damp, silty SAND, some cinders (FILL)	3'		
5				dark yellowish orange, damp silty SAND, little gravel	3.3'		0.0
6				End of Boring at 5 fbg			
7							
8							
9							
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16							
17							
18							
19							
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21							
22							
23							

Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-210A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At northern portion of Subject Property at CSX Railroad and North of Retention Basin Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/17/2007 Completion date: 1/17/2007		LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing
							PID Headspace
0	0 - 5	full		gravel, stones (FILL)			
1				moderate yellowish brown 10 YR 5/4, damp silty SAND, little gravel	1' SM		
2			*	dusky brown, damp, silty SAND, cinders, brick pieces (FILL)	2' SM		0.0
3				dusky brown, damp, fine silty SAND, roots (peat)	3' SM		
4							0.0
5				End of Boring at 5 fbg			
6							
7							
8							
9							
10							
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Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top soil sample interval collected for laboratory analysis.



O'BRIEN & GERE
ENGINEERS, INC.

SOIL BORING LOG

BORING I.D.: OBG-211A

PAGE 1 OF 1

CLIENT: General Motors
PROJECT NAME: Die Storage Lot Investigation
PROJECT LOCATION: Flint, Michigan
FILE NO.: 4966/34573
BORING COMPANY: Prosonic Corporation
FOREMAN: Chris Barden
OBG GEOLOGIST: Mike Robison

Boring Location: At eastern portion of Subject Property at CSX property, east side
Drilling equipment: Geoprobe 6600 ATV
Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia.
Borehole Diameter: 2.5 inches
Total Depth: 5 feet below grade
Start date: 1/17/2007
Completion date: 1/17/2007

Surface Elevation (ft MSL):
Top of Casing Elevation (ft MSL):
Northing:
Easting:
Depth to ground water:

LEGEND: ☒ Cement/grout ☐ Screen
☒ #0 Sand Pack ☐ Riser
☒ Bentonite

DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing	
							PID	Headspace
0	0 - 5	full		gravel (FILL)				
1				moderate yellowish brown 10 YR 5/4, damp silty SAND, little gravel	1' SM			
2								0.0
3			*	black silty SAND, cinders (FILL)	3' SM			
				dark yellowish orange, damp, silty SAND	3.5'			
4				grayish brown, damp, silty SAND, little clay and gravel	4' SM			0.0
5				End of Boring at 5 fbg				
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Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-212A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573 BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Boring Location: At eastern portion of Subject Property at CSX property, east side Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade Start date: 1/17/2007 Completion date: 1/17/2007		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water: LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		gravel (FILL)			
1				moderate yellowish brown 10 YR 5/4, silty SAND & gravel	1' SM		
2			*	black silty SAND, cinders (FILL)	2' SM		0.0
3				moderate yellowish brown, damp, silty SAND, little clay and gravel	2.3' SM		
4				dark brown, damp, silty SAND, roots (peat)	4.5' SM		0.0
5				End of Boring at 5 fbg			
6							
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Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-214A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At northern portion of Subject Property, northwest of retention basin Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade Start date: 1/17/2007 Completion date: 1/17/2007		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison						LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		vegetation at surface; dusky brown 5 YR 2/2, damp silty SAND, little gravel, roots			
1				dusky brown 5 YR 2/2, damp silty SAND, with gravel, slag and cinders (FILL)	1' SM		
2							0.0
3				grayish olive, moist, sandy CLAY, wood block (old railroad tie)	3' CL		
4				as above, no wood block			0.0
5				End of Boring at 5 fbg			
6							
7							
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Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-215A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At northern portion of Subject Property; southwest corner of retention basin Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade		PAGE <u>1</u> OF <u>1</u> Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/17/2007 Completion date: 1/17/2007		LEGEND: Cement/grout Screen #0 Sand Pack Riser Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		vegetation at surface, dusky brown, moist, silty SAND, roots	SM		
1				grayish olive, damp, silty CLAY, little gravel, roots	1' CL		
2			*	dusky brown, damp, silty SAND, some gravel, slag, and brick pieces (FILL)	2' SM		0.0
3				grayish olive, damp, silty CLAY, little sand and gravel	3' CL		
4				as above, wood block (railroad tie) (FILL)	4.5'		0.0
5				End of Boring at 5 fbg			
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Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-216A		
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At northern portion of Subject Property Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade Start date: 1/17/2007 Completion date: 1/17/2007		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:		
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison						LEGEND: ☒ Cement/grout ☐ #0 Sand Pack ☐ Bentonite ☐ Screen ☐ Riser		
DEPTH BELOW GRADE	CORE INTERVAL (ft bfg)	PENETR/ RECOVERY (ft bfg)	Analytical Sample Interval (ft bfg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing	
							PID Headspace	
0	0 - 5	full		vegetation at surface; dusky brown 5 YR 2/2, moist, silty SAND, with topsoil and roots	SM			
1			*	as above, cinder and slag (FILL)	1'			
2				dark brown, moist, clayey SILT, some sand and roots	2' ML		0.0	
3				moderate yellowish brown, moist, sandy CLAY, orange mottling	3' CL			
4							0.0	
5				End of Boring at 5 fbg				
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Notes:
1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
3. * denotes soil sample interval collected for laboratory analysis.

**O'BRIEN & GERE**
ENGINEERS, INC.**SOIL BORING LOG****BORING I.D.:** OBG-217A

PAGE 1 OF 1

CLIENT: General Motors
PROJECT NAME: Die Storage Lot Investigation
PROJECT LOCATION: Flint, Michigan
FILE NO.: 4966/34573
BORING COMPANY: Prosonic Corporation
FOREMAN: Chris Barden
OBG GEOLOGIST: Mike Robison

Boring Location: At northern portion of Subject Property, west of MW-7
Drilling equipment: Geoprobe 6600 ATV
Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia.
Borehole Diameter: 2.5 inches
Total Depth: 5 feet below grade
Start date: 1/17/2007
Completion date: 1/17/2007

Surface Elevation (ft MSL):
Top of Casing Elevation (ft MSL):
Northing:
Easting:
Depth to ground water:

LEGEND: Cement/grout Screen
 #0 Sand Pack Riser
 Bentonite

DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIP	Equipment Installed	Field Testing	
							PID	Headspace
0	0 - 5	full		vegetation at surface, dusky brown 5YR 2/2 , damp, silty SAND, some roots	SM			
1			*	as above, black cinders and slag (FILL)	1'			
2				moderate yellowish brown 10 YR 5/4, orange mottling, moist, sandy CLAY	2' CL		0.0	
3								
4				moderate yellowish brown, orange and grey mottling, silty CLAY, trace gravel and roots	4' CL		0.0	
5				End of Boring at 5 fbg				
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Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-219A	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At western portion of Subject Property Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade Start date: 1/17/2007 Completion date: 1/17/2007		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water: LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison							
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing
0	0 - 5	full		vegetation at surface, dark brown 5 YR 2/2, moist, silty SAND, roots	SM		
1			*	as above, black cinders & slag (FILL)	1'		
2				dark brown 5 YR 2/2, moist, clayey SILT, some sand	2' ML		0.0
3							
4							0.0
5				End of Boring at 5 fbg			
6							
7							
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23							

Notes:
1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
3. * denotes soil sample interval collected for laboratory analysis.



O'BRIEN & GERE ENGINEERS, INC.

CLIENT: General Motors
PROJECT NAME: Die Storage Lot Investigation
PROJECT LOCATION: Flint, Michigan
FILE NO.: 4966/34573
BORING COMPANY: Prosonic Corporation
FOREMAN: Chris Barden
OBG GEOLOGIST: Mike Robison

SOIL BORING LOG

Boring Location: At southwestern portion of Subject Property
Drilling equipment: Geoprobe 6600 ATV
Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia.
Borehole Diameter: 2.5 inches
Total Depth: 5 feet below grade
Start date: 1/17/2007
Completion date: 1/17/2007

BORING I.D.: OBG-220A

PAGE 1 OF 1

Surface Elevation (ft MSL):
Top of Casing Elevation (ft MSL):
Northing:
Easting:
Depth to ground water:

LEGEND: / Cement/grout
#0 Sand Pack
Bentonite
=== Screen
Riser

DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIP	Equipment Installed	Field Testing
0	0 - 5	full		vegetation at surface, moderate yellowish brown, damp, silty SAND and GRAVEL, roots	SM-GM		
1				moderate yellowish brown, damp, silty CLAY, roots	1' CL		
2			*	dark brown, silty SAND and GRAVEL, black cinders and slag (FILL)	2' SM-GM		0.0
3				moderate yellowish brown 10 YR 5/4, moist, sandy CLAY, little gravel	3' CL		0.0
4							
5				End of Boring at 5 bfg			
6							
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Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-221A			
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: At southwestm portion of Subject Property Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 5 feet below grade		PAGE <u>1</u> OF <u>1</u> Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:			
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/17/2007 Completion date: 1/17/2007		LEGEND: ☐ Cement/grout ☐ #0 Sand Pack ☒ Bentonite ☐ Screen ☐ Riser			
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION		STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing	
0	0 - 5	full		vegetation at surface; dusky brown 5 YR 2/2, moist, silty SAND, little gravel		SM			
1			*	as above, black cinders and slag (FILL)		1'			
2				moderate yellowish brown, moist, silty CLAY, little gravel		2' CL		0.0	
3									
4								0.0	
5				End of Boring at 5 fbg					
6									
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21									
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Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228A													
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 50' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 10 feet below grade		PAGE <u>1</u> OF <u>1</u> Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:													
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: <table border="1"> <tr> <td></td> <td>Cement/grout</td> <td></td> <td>Screen</td> </tr> <tr> <td></td> <td>#0 Sand Pack</td> <td></td> <td>Riser</td> </tr> <tr> <td></td> <td>Bentonite</td> <td></td> <td></td> </tr> </table>			Cement/grout		Screen		#0 Sand Pack		Riser		Bentonite		
	Cement/grout		Screen																
	#0 Sand Pack		Riser																
	Bentonite																		
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace												
0	0 - 5	full		concrete															
1																			
2				GRAVEL	1.5' GP														
3				moderate yellowish brown, damp, silty SAND and GRAVEL, little clay and slag pieces (FILL)	2' SM-GM		0.0												
4																			
5	5 - 10	full		as above	5'														
6																			
7				dark brown, moist, silty SAND and GRAVEL, little clay and slag pieces	7' SM-GM		420.0												
8				grayish olive, moist, silty SAND, odor	7.5' SM		420.0												
9																			
10				End of Boring at 10 fbg															
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228B													
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 50' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 15 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:													
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: <table border="1"> <tr> <td></td> <td>Cement/grout</td> <td></td> <td>Screen</td> </tr> <tr> <td></td> <td>#0 Sand Pack</td> <td></td> <td>Riser</td> </tr> <tr> <td></td> <td>Bentonite</td> <td></td> <td></td> </tr> </table>			Cement/grout		Screen		#0 Sand Pack		Riser		Bentonite		
	Cement/grout		Screen																
	#0 Sand Pack		Riser																
	Bentonite																		
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing PID Headspace												
0	0 - 5	full		concrete															
1																			
2				GRAVEL	1.5' GP														
3				moderate yellowish brown, silty SAND, some gravel, cinder and slag (FILL)	2'		1.0												
4				wood block, creosole odor (FILL)	4'														
5	5 - 10	full		moderate yellowish brown, damp, silty SAND, little clay and gravel	5' SM		2.0												
6																			
7			*	dark brown, moist, clayey SAND (peat)	7' SC		1.0												
8				moderate yellowish brown, moist, sandy CLAY	7.5' CL		1.0												
9																			
10	10 - 15	full		grayish olive, wet, sandy CLAY	10' CL		1.0												
11																			
12																			
13			*																
14																			
15				End of Boring at 15 fbg															
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228C	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 30' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 10 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: Cement/grout #0 Sand Pack	

Notes:
1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis (field collocated taking at 18'-20')

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228D													
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 20' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 20 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:													
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: <table border="1"> <tr> <td></td> <td>Cement/grout</td> <td></td> <td>Screen</td> </tr> <tr> <td></td> <td>#0 Sand Pack</td> <td></td> <td>Riser</td> </tr> <tr> <td></td> <td>Bentonite</td> <td></td> <td></td> </tr> </table>			Cement/grout		Screen		#0 Sand Pack		Riser		Bentonite		
	Cement/grout		Screen																
	#0 Sand Pack		Riser																
	Bentonite																		
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing PID Headspace												
0	0 - 5	full		concrete															
1																			
2				GRAVEL	1.5' GP														
3				grayish olive, damp, silty CLAY and GRAVEL, black cinders (FILL)	2' CL-GM		5.0												
4																			
5	5 - 10	full		as above	5'		10.0												
6																			
7			*	dark brown, damp, sandy CLAY, odor, roots (peat)	7'		500.0												
8				grayish olive, damp, silty CLAY, odor	7.5' CL		420.0												
9																			
10	10 - 15	full		as above	10'														
11																			
12				as above, wet	12'		100.0												
13																			
14				light olive grey, wet, fine to medium SAND	14' SP		80.0												
15	15 - 20	full		as above	15'														
16				light olive grey, damp, stiff silty CLAY, little gravel	16' CL		15.0												
17																			
18				as above	18'		2.0												
19			*																
20																			
21				End of Boring at 20 ftbg															
22																			
23																			

Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228E	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 40' north of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 10 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: ☒ Cement/grout ☒ #0 Sand Pack ☒ Bentonite ☐ Screen ☐ Riser	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		concrete			
1							
2				GRAVEL	1.5' GP		
3				moderate yellowish brown 10 YR 5/4, damp, silty SAND, some cinder and slag (FILL)	2' SM		
4				grayish olive, damp, silty CLAY, wood block pieces, creosole odor (FILL)	3' CL		
5	5 - 10	full		as above	4.5'		4.0
6				as above, no wood block	5'		
7				dark brown, damp, sandy CLAY, odor, roots (peat)	7' CL		410.0
8				grayish olive, moist, sandy CLAY, odor	7.5'		400.0
9							
10				End of Boring at 10 fbg			
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228F	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 40' northwest of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 10 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Roblson				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		concrete			
1				GRAVEL	1.5' GP		
2				moderate yellowish brown, damp, silty SAND and GRAVEL, black cinders, rubber pieces (FILL)	2' SM-GM		
3				grayish olive, damp, silty CLAY, wood block, creosole odor (FILL)	3' CL		4.0
4							
5	5 - 10	full		as above	5'		
6				dark brown, moist, sandy SILT, roots (peat)	6' ML		
7				grayish olive, moist, sandy CLAY, odor	7' CL		430.0
8							
9							
10				End of Boring at 10 fbg			
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Notes:
 1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
 2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
 3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228G	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573 BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Boring Location: In parking lot at central portion of DSL 50' northwest of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 20 feet below grade Start date: 1/15/2007 Completion date: 1/15/2007		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water: LEGEND:  Cement/grout  Screen  #0 Sand Pack  Riser  Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		concrete			
1				GRAVEL	1.5' GP		
2				moderate yellowish brown, damp, silty SAND and GRAVEL, black cinders (FILL)	2' SM-GM		
3				grayish olive, damp, silty CLAY, little gravel	3' CL		
4							
5	5 - 10	full		as above	5'		
6			*	dark brown, moist, clayey SAND, roots (peat), odor	6.5' SC		290.0
7				grayish olive, moist, silty CLAY, little sand, odor	7' CL		200.0
8							
9							
10	10 - 15	full		as above, less odor	10'		10.0
11							
12							
13							
14				light olive grey, wet, fine to medium SAND, little clay	14' SP		10.0
15	15 - 17	full					
16			*	light olive grey, damp, still silty CLAY, little gravel	16' CL		0.0
17				End of Boring at 17 fbg			
18							
19							
20							
21							
22							
23							

Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-228H	
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 60' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 10 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:	
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: ☐ Cement/grout ☐ Screen ☐ #0 Sand Pack ☐ Riser ☐ Bentonite	
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIP	Equipment Installed	Field Testing PID Headspace
0	0 - 5	full		concrete			
1				GRAVEL	1.5' GP		
2				moderate yellowish brown 10 YR 5/4, damp, silty SAND and GRAVEL, cinders and slag (FILL)	2' SM-GM		1.0
3							
4							
5	5 - 10	full		as above	5'		
6							
7				dark brown, damp, clayey SAND, odor, roots (peat)	7' SC		470.0
8				grayish olive, moist, silty CLAY, little fine sand, odor	7.5' CL		470.0
9							
10				End of Boring at 10 fbg			
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Notes:
1. Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
2. 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
3. * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

 O'BRIEN & GERE ENGINEERS, INC.				SOIL BORING LOG		BORING I.D.: OBG-2281													
CLIENT: General Motors PROJECT NAME: Die Storage Lot Investigation PROJECT LOCATION: Flint, Michigan FILE NO.: 4966/34573				Boring Location: In parking lot at central portion of DSL 70' northeast of SVE-1 Drilling equipment: Geoprobe 6600 ATV Sampling equipment: Stainless steel macro-core sampler, 5 ft by 2" dia. Borehole Diameter: 2.5 inches Total Depth: 20 feet below grade		PAGE 1 OF 1 Surface Elevation (ft MSL): Top of Casing Elevation (ft MSL): Northing: Easting: Depth to ground water:													
BORING COMPANY: Prosonic Corporation FOREMAN: Chris Barden OBG GEOLOGIST: Mike Robison				Start date: 1/15/2007 Completion date: 1/15/2007		LEGEND: <table border="1"> <tr> <td></td> <td>Cement/grout</td> <td></td> <td>Screen</td> </tr> <tr> <td></td> <td>#0 Sand Pack</td> <td></td> <td>Riser</td> </tr> <tr> <td></td> <td>Bentonite</td> <td></td> <td></td> </tr> </table>			Cement/grout		Screen		#0 Sand Pack		Riser		Bentonite		
	Cement/grout		Screen																
	#0 Sand Pack		Riser																
	Bentonite																		
DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	Analytical Sample Interval (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing PID Headspace												
0	0 - 5	full		concrete															
1				GRAVEL	1.5' GP														
2				moderate yellowish brown 10 YR 5/4, damp, silty SAND, some gravel, cinders and slag (FILL)	2' SM														
3																			
4																			
5	5 - 10	full		as above	5'														
6																			
7			*	dark brown, damp, clayey SAND, roots, slight odor	7' SC		25.0												
				grayish olive, moist, silty CLAY, little sand and gravel	7.5' CL														
8																			
9																			
10	10 - 15	full		grayish olive, moist, clayey SAND	10' SC		3.0												
11																			
12				light olive grey, wet, silty CLAY, little gravel	12' CL														
13				light olive grey, wet, clayey SILT	13' ML		1.0												
14																			
15	15 - 17	full		light olive grey, moist sandy CLAY	15' CL		1.0												
16			*																
17				End of Boring at 17 fbg															
18																			
19																			
20																			
21																			
22																			
23																			

Notes:

- Subsequent to soil sampling activities the borehole was backfilled with bentonite and concrete at surface.
- 5 ft hydraulic probe macro core sampler used, therefore no blow counts.
- * denotes top of 2-ft discrete soil sample interval collected for laboratory analysis.

ATTACHMENT C

Analytical Reports



Analytical Laboratory Report

Report ID: S30399.01(01)

Generated on 01/25/2007

Report to

Attention: Cliff Yantz/Mike Robison

O'Brien & Gere Engineers

33469 West 14 Mile Road, Suite 150

Farmington Hills, MI 48331

Phone: 248-661-3745 FAX: 248-661-4057

Report produced by

Merit Laboratories

2680 East Lansing Drive

East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S30399.01-S30399.20

Project: 34573/ Die Storage Lot SSOW# R040011

Collected Date: 01/17/2007

Submitted Date/Time: 01/17/2007 16:30

Sampled by: Mike Robison

P.O. #: 4001457

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RDL.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

A handwritten signature in cursive script that reads "Violetta F. Murshak".

Violetta F. Murshak

Laboratory Director



Analytical Laboratory Report

Sample Summary (20 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S30399.01	SO-OBG-221A-02-011707	Soil	01/17/2007 09:00
S30399.02	SO-OBG-DUP02-011707	Soil	01/17/2007
S30399.03	SO-OBG-220A-03-011707	Soil	01/17/2007 09:30
S30399.04	SO-OBG-220A-03-011707 MS	Soil	01/17/2007 09:30
S30399.05	SO-OBG-220A-03-011707 MSD	Soil	01/17/2007 09:30
S30399.06	SO-OBG-219A-02-011707	Soil	01/17/2007 09:50
S30399.07	SO-OBG-219A-02-011707-FC	Soil	01/17/2007 09:50
S30399.08	EB-01-011707	Water Quality	01/17/2007 10:00
S30399.09	SO-OBG-217A-02-011707	Soil	01/17/2007 10:15
S30399.10	SO-OBG-216A-02-011707	Soil	01/17/2007 10:25
S30399.11	SO-OBG-215A-03-011707	Soil	01/17/2007 10:45
S30399.12	SO-OBG-DUP03-011707	Soil	01/17/2007
S30399.13	SO-OBG-214A-02-011707	Soil	01/17/2007 11:10
S30399.14	SO-OBG-214A-02-011707-FC	Soil	01/17/2007 11:10
S30399.15	EB-02-011707	Water Quality	01/17/2007 11:30
S30399.16	SO-OBG-210A-03-011707	Soil	01/17/2007 11:45
S30399.17	SO-OBG-209A-04-011707	Soil	01/17/2007 12:10
S30399.18	SO-OBG-208A-04-011707	Soil	01/17/2007 12:30
S30399.19	SO-OBG-211A-04-011707	Soil	01/17/2007 12:50
S30399.20	SO-OBG-212A-04-011707	Soil	01/17/2007 13:20



Analytical Laboratory Report

Lab Sample ID: S30399.01
Sample Tag: SO-OBG-221A-02-011707
Collected Date/Time: 01/17/2007 09:00
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		

Inorganics

Total Solids	88	%	1	160.3	01/24/07 11:00	SLS		
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Metals

% Coarse by Weight	94.1	%			01/24/07 11:00	SLS		
% Fine by Weight	5.9	%			01/24/07 11:00	SLS		
Barium	27.3	mg/kg	1.0	6020	01/23/07 15:39	SLS	7440-39-3	
Lead, Coarse	26.8	mg/kg	1.0	6020	01/25/07 13:41	PER		
Lead, Fine	56.4	mg/kg	1.0	6020	01/25/07 14:33	PER		
Lead, Total Calculated	28.5	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.02
Sample Tag: SO-OBG-DUP02-011707
Collected Date/Time: 01/17/2007 :
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		

Inorganics

Total Solids	89	%	1	160.3	01/24/07 11:00	SLS		
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Metals

% Coarse by Weight	88.6	%			01/24/07 11:00	SLS		
% Fine by Weight	11.4	%			01/24/07 11:00	SLS		
Barium	21.3	mg/kg	1.0	6020	01/23/07 15:41	SLS	7440-39-3	
Lead, Coarse	27.5	mg/kg	1.0	6020	01/25/07 13:44	PER		
Lead, Fine	100	mg/kg	1.0	6020	01/25/07 14:34	PER		
Lead, Total Calculated	35.7	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.03
Sample Tag: SO-OBG-220A-03-011707
Collected Date/Time: 01/17/2007 09:30
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		

Inorganics

Total Solids	76	%	1	160.3	01/24/07 11:00	SLS		
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Metals

% Coarse by Weight	80.2	%			01/24/07 11:00	SLS		
% Fine by Weight	19.8	%			01/24/07 11:00	SLS		
Barium	60.6	mg/kg	1.0	6020	01/23/07 16:14	SLS	7440-39-3	
Lead, Coarse	23.0	mg/kg	1.0	6020	01/25/07 13:45	PER		
Lead, Fine	53.2	mg/kg	1.0	6020	01/25/07 14:35	PER		
Lead, Total Calculated	28.9	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.04
Sample Tag: SO-OBG-220A-03-011707 MS
Collected Date/Time: 01/17/2007 09:30
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	76	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	79.6	%			01/24/07 11:00	SLS		
% Fine by Weight	20.4	%			01/24/07 11:00	SLS		
Barium	88.1	mg/kg	1.0	6020	01/23/07 16:16	SLS	7440-39-3	
Lead, Coarse	63.3	mg/kg	1.0	6020	01/25/07 13:46	PER		
Lead, Fine	106	mg/kg	1.0	6020	01/25/07 14:36	PER		
Lead, Total Calculated	72.0	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.05

Sample Tag: SO-OBG-220A-03-011707 MSD

Collected Date/Time: 01/17/2007 09:30

Matrix: Soil

COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	76	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	81.0	%			01/24/07 11:00	SLS		
% Fine by Weight	19	%			01/24/07 11:00	SLS		
Barium	88.5	mg/kg	1.0	6020	01/23/07 16:19	SLS	7440-39-3	
Lead, Coarse	67.1	mg/kg	1.0	6020	01/25/07 13:47	PER		
Lead, Fine	107	mg/kg	1.0	6020	01/25/07 14:37	PER		
Lead, Total Calculated	74.6	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.06
Sample Tag: SO-OBG-219A-02-011707
Collected Date/Time: 01/17/2007 09:50
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		

Inorganics

Total Solids	81	%	1	160.3	01/24/07 11:00	SLS		
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Metals

% Coarse by Weight	88.8	%			01/24/07 11:00	SLS		
% Fine by Weight	11.2	%			01/24/07 11:00	SLS		
Barium	73.8	mg/kg	1.0	6020	01/23/07 15:44	SLS	7440-39-3	
Lead, Coarse	262	mg/kg	1.0	6020	01/25/07 13:48	PER		
Lead, Fine	483	mg/kg	1.0	6020	01/25/07 14:40	PER		
Lead, Total Calculated	286	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.07

Sample Tag: SO-OBG-219A-02-011707-FC

Collected Date/Time: 01/17/2007 09:50

Matrix: Soil

COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		

Inorganics

Total Solids	82	%	1	160.3	01/24/07 11:00	SLS		
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Metals

% Coarse by Weight	84.4	%			01/24/07 11:00	SLS		
% Fine by Weight	15.6	%			01/24/07 11:00	SLS		
Barium	87.8	mg/kg	1.0	6020	01/23/07 15:46	SLS	7440-39-3	
Lead, Coarse	44.9	mg/kg	1.0	6020	01/25/07 13:49	PER		
Lead, Fine	147	mg/kg	1.0	6020	01/25/07 14:41	PER		
Lead, Total Calculated	60.8	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.08
Sample Tag: EB-01-011707
Collected Date/Time: 01/17/2007 10:00
Matrix: Water Quality
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	01/23/07 12:00	SLS		
Metals								
Barium	0.003	mg/L	0.005	200.8	01/23/07 15:33	SLS	7440-39-3	b
Lead	Not detected	mg/L	0.003	200.8	01/25/07 13:33	PER	7439-92-1	

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S30399.09
Sample Tag: SO-OBG-217A-02-011707
Collected Date/Time: 01/17/2007 10:15
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	88	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	69.0	%			01/24/07 11:00	SLS		
% Fine by Weight	31.0	%			01/24/07 11:00	SLS		
Barium	10.4	mg/kg	1.0	6020	01/23/07 15:48	SLS	7440-39-3	
Lead, Coarse	11.4	mg/kg	1.0	6020	01/25/07 13:50	PER		
Lead, Fine	97.3	mg/kg	1.0	6020	01/25/07 14:42	PER		
Lead, Total Calculated	38.0	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.10
Sample Tag: SO-OBG-216A-02-011707
Collected Date/Time: 01/17/2007 10:25
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	82	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	85.0	%			01/24/07 11:00	SLS		
% Fine by Weight	15.0	%			01/24/07 11:00	SLS		
Barium	48.0	mg/kg	1.0	6020	01/23/07 15:50	SLS	7440-39-3	
Lead, Coarse	8.1	mg/kg	1.0	6020	01/25/07 13:51	PER		
Lead, Fine	45.6	mg/kg	1.0	6020	01/25/07 14:43	PER		
Lead, Total Calculated	13.7	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.11
Sample Tag: SO-OBG-215A-03-011707
Collected Date/Time: 01/17/2007 10:45
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	91	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	87.0	%			01/24/07 11:00	SLS		
% Fine by Weight	13.0	%			01/24/07 11:00	SLS		
Barium	25.3	mg/kg	1.0	6020	01/23/07 15:52	SLS	7440-39-3	
Lead, Coarse	13.3	mg/kg	1.0	6020	01/25/07 13:52	PER		
Lead, Fine	37.6	mg/kg	1.0	6020	01/25/07 14:44	PER		
Lead, Total Calculated	16.4	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.12
Sample Tag: SO-OBG-DUP03-011707
Collected Date/Time: 01/17/2007 :
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	91	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	87.7	%			01/24/07 11:00	SLS		
% Fine by Weight	12.3	%			01/24/07 11:00	SLS		
Barium	23.2	mg/kg	1.0	6020	01/23/07 15:54	SLS	7440-39-3	
Lead, Coarse	17.0	mg/kg	1.0	6020	01/25/07 13:53	PER		
Lead, Fine	30.0	mg/kg	1.0	6020	01/25/07 14:45	PER		
Lead, Total Calculated	18.5	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.13
Sample Tag: SO-OBG-214A-02-011707
Collected Date/Time: 01/17/2007 11:10
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	80	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	77.8	%			01/24/07 11:00	SLS		
% Fine by Weight	22.2	%			01/24/07 11:00	SLS		
Barium	84.3	mg/kg	1.0	6020	01/23/07 16:00	SLS	7440-39-3	
Lead, Coarse	192	mg/kg	1.0	6020	01/25/07 13:56	PER		
Lead, Fine	296	mg/kg	1.0	6020	01/25/07 14:46	PER		
Lead, Total Calculated	215	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.14
Sample Tag: SO-OBG-214A-02-011707-FC
Collected Date/Time: 01/17/2007 11:10
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	78	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	75.8	%			01/24/07 11:00	SLS		
% Fine by Weight	24.2	%			01/24/07 11:00	SLS		
Barium	47.9	mg/kg	1.0	6020	01/23/07 16:02	SLS	7440-39-3	
Lead, Coarse	8.7	mg/kg	1.0	6020	01/25/07 13:57	PER		
Lead, Fine	38.9	mg/kg	1.0	6020	01/25/07 14:47	PER		
Lead, Total Calculated	16.0	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.15
Sample Tag: EB-02-011707
Collected Date/Time: 01/17/2007 11:30
Matrix: Water Quality
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	01/23/07 12:00	SLS		
Metals								
Barium	0.002	mg/L	0.005	200.8	01/23/07 15:35	SLS	7440-39-3	b
Lead	Not detected	mg/L	0.003	200.8	01/25/07 13:34	PER	7439-92-1	

b-Value detected less than reporting limit, but greater than MDL



Analytical Laboratory Report

Lab Sample ID: S30399.16
Sample Tag: SO-OBG-210A-03-011707
Collected Date/Time: 01/17/2007 11:45
Matrix: Soil
COC Reference: 04130

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	89	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	61.6	%			01/24/07 11:00	SLS		
% Fine by Weight	38.4	%			01/24/07 11:00	SLS		
Barium	29.7	mg/kg	1.0	6020	01/23/07 16:04	SLS	7440-39-3	
Lead, Coarse	18.1	mg/kg	1.0	6020	01/25/07 13:58	PER		
Lead, Fine	33.5	mg/kg	1.0	6020	01/25/07 14:48	PER		
Lead, Total Calculated	24.0	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.17
Sample Tag: SO-OBG-209A-04-011707
Collected Date/Time: 01/17/2007 12:10
Matrix: Soil
COC Reference: 04132

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	90	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	52.7	%			01/24/07 11:00	SLS		
% Fine by Weight	47.3	%			01/24/07 11:00	SLS		
Barium	16.8	mg/kg	1.0	6020	01/23/07 16:06	SLS	7440-39-3	
Lead, Coarse	7.3	mg/kg	1.0	6020	01/25/07 14:01	PER		
Lead, Fine	29.2	mg/kg	1.0	6020	01/25/07 14:53	PER		
Lead, Total Calculated	17.6	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.18
Sample Tag: SO-OBG-208A-04-011707
Collected Date/Time: 01/17/2007 12:30
Matrix: Soil
COC Reference: 04132

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	90	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	48.0	%			01/24/07 11:00	SLS		
% Fine by Weight	52.0	%			01/24/07 11:00	SLS		
Barium	17.2	mg/kg	1.0	6020	01/23/07 16:08	SLS	7440-39-3	
Lead, Coarse	8.0	mg/kg	1.0	6020	01/25/07 14:03	PER		
Lead, Fine	26.9	mg/kg	1.0	6020	01/25/07 14:55	PER		
Lead, Total Calculated	17.8	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.19
Sample Tag: SO-OBG-211A-04-011707
Collected Date/Time: 01/17/2007 12:50
Matrix: Soil
COC Reference: 04132

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	89	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	54.3	%			01/24/07 11:00	SLS		
% Fine by Weight	45.7	%			01/24/07 11:00	SLS		
Barium	21.0	mg/kg	1.0	6020	01/23/07 16:10	SLS	7440-39-3	
Lead, Coarse	21.3	mg/kg	1.0	6020	01/25/07 14:04	PER		
Lead, Fine	63.2	mg/kg	1.0	6020	01/25/07 14:56	PER		
Lead, Total Calculated	40.4	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



Analytical Laboratory Report

Lab Sample ID: S30399.20
Sample Tag: SO-OBG-212A-04-011707
Collected Date/Time: 01/17/2007 13:20
Matrix: Soil
COC Reference: 04132

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Lead, Coarse Digestion	Completed			3050B	01/25/07 12:00	PER		
Lead, Fine and Coarse Prep	Completed			3050B	01/24/07 11:00	SLS		
Lead, Fine Digestion	Completed			3050B	01/25/07 12:00	PER		
Metal Digestion	Completed			3050B	01/23/07 12:00	SLS		
Inorganics								
Total Solids	82	%	1	160.3	01/24/07 11:00	SLS		
Metals								
% Coarse by Weight	71.2	%			01/24/07 11:00	SLS		
% Fine by Weight	28.8	%			01/24/07 11:00	SLS		
Barium	67.9	mg/kg	1.0	6020	01/23/07 16:12	SLS	7440-39-3	
Lead, Coarse	94.1	mg/kg	1.0	6020	01/25/07 14:05	PER		
Lead, Fine	161	mg/kg	1.0	6020	01/25/07 14:57	PER		
Lead, Total Calculated	113	mg/kg	1.0	6020	01/25/07 15:30	PER	7439-92-1C	



ENCORE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody Form (ENC-100) must be completed accurately.

Required Client Information:

Company:	ENCORE + GEN	Report To:	CLIFF YAMT
Address:	33469 W. MILE	Copy To:	DR. ROBERTSON
	Drummondville, QC J0L 1M1	Invoice To:	CLIFF YAMT
Phone:	248 661 3345	P.O.:	
Fax:	248 661 4057	Project Name:	DR. ROBERTSON
E-mail:	YAMT@ENCORE.COM	Project Number:	34573

Laboratory:	ENCORE
Laboratory Location:	EAST LANSING, MI
Laboratory Contact:	DR. ROBERTSON
Requested Due Date:	11/17/07
QA/QC Requirements:	LABEL III DATA

APR	NO	04130
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SSOW Ref. Code	ROM001
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Sample Identification:	Valid Matrix Codes: WG Groundwater WB Borehole Water WS Surface Water SC Soil SC Sediment See Back for Additional Codes	Matrix Code	Date Collected	Time Collected	Containers	Preservative	Analysis and Method				Remarks/Lab ID	Sample Depth
							DATE	TIME	RECEIVED IN AFFILIATION	DATE		
011 S0-086-220A-02-01707		S0	11/17/07	0900	1							086-220A 1-2
012 S0-086-200P02-01707		S0										086-220A 2-3
013 S0-086-220A-03-01707		S0										086-220A 2-3
014 S0-086-220A-03-01707-MS/MSD		S0										086-220A 1-2
015 S0-086-219A-02-01707		S0										086-220A 1-2
016 S0-086-219A-02-01707-FC		S0										086-220A 1-2
017 ES-01-01707		ES										086-220A 1-2
018 S0-086-200A-02-01707		S0										086-220A 1-2
019 S0-086-216A-02-01707		S0										086-220A 2-3
020 S0-086-215A-03-01707		S0										086-220A 2-3
021 S0-086-DUP03-01707		S0										086-220A 1-2
022 S0-086-214A-02-01707		S0										086-220A 1-2
023 S0-086-214A-02-01707-FC		S0										086-220A 1-2
024 ES-02-01707		ES										086-220A 2-3
025 S0-086-210A-03-01707		S0										086-220A 2-3

SHIPMENT METHOD	NO. OF COOLERS	REF. INQUIRY BY / AFFILIATION	DATE	TIME	RECEIVED IN AFFILIATION	DATE	TIME
LAR Box-up	1	ENCORE	11/17/07	1245	ENCORE	11/17/07	1245
AIRBILL NO.		ENCORE	11/17/07	1245	ENCORE	11/17/07	1245

Sample Condition	Temp in C	Received on Ice	Sealed Cooler	Samples Intact
	4.4	Y/N	Y/N	Y/N

SAMPLES RECEIVED ON ICE
BATCH COMPLETE

Additional Comments:

Sample Name:	ENCORE
Sample Signature:	ENCORE
Date:	11/17/07

[illegible]

Revised Curriculum

Company: CRYSTAL T-CELLS	Report To: CLIFF YAMT
Address:	Copy To: M NELSON
33469 W. 14th St	Invoice To: CLIFF YAMT
FARMINGTON HILO HI	P.O.:
Telephone: 748-661-3745	Project Name: N.E. SERRAVALLO
FAX: 748-661-4085	Project Number: 34573
E-mail: YAMT@CSA.CRII.COM	

Requester's Name	MARTIN
Requesting Agency	FBI - NEW YORK
Subject	JAMES EARL RAY
Reference Number	NY 100-89677
Date Requested	5/1/67
Requested By	SA [illegible]
Approved By	[illegible]
Remarks	REPLY TO NY 100-89677

1000 04132

2040011

Sanjiv K. Khetan

Valid Matrix Codes: WG Groundwater WH Household Waste WS Surface Water SO Soil SI Sediment See Back for Additional Codes		Matrix Code	Date Collected	Time Collected	# Containers	Preparation	Lab Use	Remarks (Lab ID)
Sample Identification:								
30-086-209A-04-01707		SO	11/2/07	1210	1	Unpreserved		086-209A 3-4
30-086-208A-04-01707		SO	11/2/07	1230	1	Unpreserved		086-208A 3-4
30-086-211A-04-01707		SO	11/2/07	1250	1	Unpreserved		086-211A 3-4
30-086-212A-04-01707		SO	11/2/07	1320	1	Unpreserved		086-212A 3-4
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY	AFFILIATION	DATE	TIME	DATE	TIME
LAS Pick-up	1	<i>[Signature]</i>	1036	1/10/07	13:45	1/17/07	13:45
AIRBILL NO.		<i>[Signature]</i>	West	1/17/07	14:30	1/17/07	16:30
Sample Condition:				Submitter Name: <i>MIKE ROBINSON</i> Submitter Signature: <i>[Signature]</i> Date: <i>1/10/07</i>			
Additional Comments: SAMPLES PACKED IN 102 BATCH COMPLIANT							

Organization: WTTU - Public Interest Center
 YELLUW - Receiving Laboratory Corp. - INK - Summer Camp

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Analytical Laboratory Report

Supplemental Report

Report ID: S30393.01(02)
Generated on 01/31/2007
Replaces report S30393.01(01) generated on 01/25/2007

Report to

Attention: Cliff Yantz/Mike Robison
O'Brien & Gere Engineers
37000 Grand River Ave.
Suite 260
Farmington Hills, MI 48335

Phone: 248-477-5701 FAX: 248-477-5962

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S30393.01-S30393.14
Project: 34573/ Die Storage Lot SSOW# R040011
Collected Date: 01/15/2007
Submitted Date/Time: 01/17/2007 16:30
Sampled by: Mike Robison
P.O. #: 4001457

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RDL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S30393.01	SO-OBG-228B-08-011507	Soil	01/15/2007 10:45
S30393.02	SO-OBG-228B-08-011507 MS	Soil	01/15/2007 10:45
S30393.03	SO-OBG-228B-08-011507 MSD	Soil	01/15/2007 10:45
S30393.04	SO-OBG-228B-14-011507	Soil	01/15/2007 11:00
S30393.05	SO-OBG-228D-08-011507	Soil	01/15/2007 12:10
S30393.06	SO-OBG-DUP01-011507	Soil	01/15/2007
S30393.07	SO-OBG-228D-20-011507	Soil	01/15/2007 12:30
S30393.08	SO-OBG-228G-07-011507	Soil	01/15/2007 14:20
S30393.09	SO-OBG-228G-07-011507-FC	Soil	01/15/2007 14:20
S30393.10	SO-OBG-228G-17-011507	Soil	01/15/2007 14:40
S30393.11	SO-OBG-228I-08-011507	Soil	01/15/2007 15:50
S30393.12	SO-OBG-228I-17-011507	Soil	01/15/2007 16:10
S30393.13	EB-011507	Water Quality	01/15/2007 17:00
S30393.14	TB-011507	Methanol	01/15/2007 17:10



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.01
Sample Tag: SO-OBG-228B-08-011507
Collected Date/Time: 01/15/2007 10:45
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	77	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	Not detected	ug/kg	60	5035/8260B	01/22/07 16:00	JGH	71-43-2	
Toluene	Not detected	ug/kg	60	5035/8260B	01/22/07 16:00	JGH	108-88-3	
Ethylbenzene	Not detected	ug/kg	60	5035/8260B	01/22/07 16:00	JGH	100-41-4	
p,m-Xylene	8	ug/kg	60	5035/8260B	01/22/07 16:00	JGH		BJ
o-Xylene	Not detected	ug/kg	60	5035/8260B	01/22/07 16:00	JGH	95-47-6	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.02
Sample Tag: SO-OBG-228B-08-011507 MS
Collected Date/Time: 01/15/2007 10:45
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	81	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	2,750	ug/kg	60	5035/8260B	01/22/07 19:20	JGH	71-43-2	1
Toluene	2,930	ug/kg	60	5035/8260B	01/22/07 19:20	JGH	108-88-3	1
Ethylbenzene	2,790	ug/kg	60	5035/8260B	01/22/07 19:20	JGH	100-41-4	1
p,m-Xylene	5,720	ug/kg	60	5035/8260B	01/22/07 19:20	JGH		1
o-Xylene	2,810	ug/kg	60	5035/8260B	01/22/07 19:20	JGH	95-47-6	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.03

Sample Tag: SO-OBG-228B-08-011507 MSD

Collected Date/Time: 01/15/2007 10:45

Matrix: Soil

COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	81	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	2,750	ug/kg	60	5035/8260B	01/22/07 19:38	JGH	71-43-2	1
Toluene	2,880	ug/kg	60	5035/8260B	01/22/07 19:38	JGH	108-88-3	1
Ethylbenzene	2,780	ug/kg	60	5035/8260B	01/22/07 19:38	JGH	100-41-4	1
p,m-Xylene	5,750	ug/kg	60	5035/8260B	01/22/07 19:38	JGH		1
o-Xylene	2,820	ug/kg	60	5035/8260B	01/22/07 19:38	JGH	95-47-6	1

1-Spiked at 2.5mg/kg



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.04
Sample Tag: SO-OBG-228B-14-011507
Collected Date/Time: 01/15/2007 11:00
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				01/18/07 08:20	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.05
Sample Tag: SO-OBG-228D-08-011507
Collected Date/Time: 01/15/2007 12:10
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	73	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	3,800	ug/kg	700	5035/8260B	01/22/07 17:13	JGH	71-43-2	Y
Toluene	355,000	ug/kg	700	5035/8260B	01/22/07 17:13	JGH	108-88-3	EY
Ethylbenzene	56,300	ug/kg	700	5035/8260B	01/22/07 17:13	JGH	100-41-4	Y
p,m-Xylene	193,000	ug/kg	700	5035/8260B	01/22/07 17:13	JGH		Y
o-Xylene	69,500	ug/kg	700	5035/8260B	01/22/07 17:13	JGH	95-47-6	Y
BTEX 5035 (Replicate 01)								
Benzene	4,000	ug/kg	10,000	5035/8260B	01/24/07 16:53	JGH	71-43-2	JY
Toluene	1,900,000	ug/kg	10,000	5035/8260B	01/24/07 16:53	JGH	108-88-3	Y
Ethylbenzene	60,000	ug/kg	10,000	5035/8260B	01/24/07 16:53	JGH	100-41-4	Y
p,m-Xylene	220,000	ug/kg	10,000	5035/8260B	01/24/07 16:53	JGH		Y
o-Xylene	70,000	ug/kg	10,000	5035/8260B	01/24/07 16:53	JGH	95-47-6	Y

Y-Elevated reporting limit due to high target concentration

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.06
Sample Tag: SO-OBG-DUP01-011507
Collected Date/Time: 01/15/2007 :
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	78	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	3,900	ug/kg	600	5035/8260B	01/22/07 17:31	JGH	71-43-2	Y
Toluene	341,000	ug/kg	600	5035/8260B	01/22/07 17:31	JGH	108-88-3	EY
Ethylbenzene	55,600	ug/kg	600	5035/8260B	01/22/07 17:31	JGH	100-41-4	Y
p,m-Xylene	189,000	ug/kg	600	5035/8260B	01/22/07 17:31	JGH		Y
o-Xylene	69,400	ug/kg	600	5035/8260B	01/22/07 17:31	JGH	95-47-6	Y
BTEX 5035 (Replicate 01)								
Benzene	4,000	ug/kg	10,000	5035/8260B	01/24/07 17:11	JGH	71-43-2	JY
Toluene	1,740,000	ug/kg	10,000	5035/8260B	01/24/07 17:11	JGH	108-88-3	Y
Ethylbenzene	50,000	ug/kg	10,000	5035/8260B	01/24/07 17:11	JGH	100-41-4	Y
p,m-Xylene	200,000	ug/kg	10,000	5035/8260B	01/24/07 17:11	JGH		Y
o-Xylene	70,000	ug/kg	10,000	5035/8260B	01/24/07 17:11	JGH	95-47-6	Y

Y-Elevated reporting limit due to high target concentration

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.07
Sample Tag: SO-OBG-228D-20-011507
Collected Date/Time: 01/15/2007 12:30
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	92.3	%	1	160.3	01/29/07 13:30	IM		
Organics - Volatiles								
BTEX 5035								
Benzene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:12	JGH	71-43-2	
Toluene	70	ug/kg	50	5035/8260B	01/29/07 15:12	JGH	108-88-3	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:12	JGH	100-41-4	
p,m-Xylene	20	ug/kg	50	5035/8260B	01/29/07 15:12	JGH		BJ
o-Xylene	7	ug/kg	50	5035/8260B	01/29/07 15:12	JGH	95-47-6	J

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.08
Sample Tag: SO-OBG-228G-07-011507
Collected Date/Time: 01/15/2007 14:20
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	77	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	500	ug/kg	600	5035/8260B	01/24/07 16:35	JGH	71-43-2	JY
Toluene	300	ug/kg	600	5035/8260B	01/24/07 16:35	JGH	108-88-3	BJY
Ethylbenzene	1,700	ug/kg	600	5035/8260B	01/24/07 16:35	JGH	100-41-4	Y
p,m-Xylene	100,000	ug/kg	600	5035/8260B	01/24/07 16:35	JGH		Y
o-Xylene	600	ug/kg	600	5035/8260B	01/24/07 16:35	JGH	95-47-6	JY

J-Estimated value less than reporting limit, but greater than MDL Y-Elevated reporting limit due to high target concentration
B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.09
Sample Tag: SO-OBG-228G-07-011507-FC
Collected Date/Time: 01/15/2007 14:20
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	79	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	370	ug/kg	60	5035/8260B	01/22/07 16:18	JGH	71-43-2	
Toluene	90	ug/kg	60	5035/8260B	01/22/07 16:18	JGH	108-88-3	
Ethylbenzene	1,710	ug/kg	60	5035/8260B	01/22/07 16:18	JGH	100-41-4	
p,m-Xylene	45,500	ug/kg	60	5035/8260B	01/22/07 16:18	JGH		E
o-Xylene	490	ug/kg	60	5035/8260B	01/22/07 16:18	JGH	95-47-6	
BTEX 5035 (Replicate 01)								
Benzene	300	ug/kg	600	5035/8260B	01/23/07 15:53	JGH	71-43-2	JY
Toluene	300	ug/kg	600	5035/8260B	01/23/07 15:53	JGH	108-88-3	BJY
Ethylbenzene	1,500	ug/kg	600	5035/8260B	01/23/07 15:53	JGH	100-41-4	Y
p,m-Xylene	75,700	ug/kg	600	5035/8260B	01/23/07 15:53	JGH		Y
o-Xylene	400	ug/kg	600	5035/8260B	01/23/07 15:53	JGH	95-47-6	JY

E-Concentration exceeds calibration range

J-Estimated value less than reporting limit, but greater than MDL Y-Elevated reporting limit due to high target concentration

B-Compound also found in associated method blank



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.10
Sample Tag: SO-OBG-228G-17-011507
Collected Date/Time: 01/15/2007 14:40
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	93.3	%	1	160.3	01/29/07 13:30	IM		
Organics - Volatiles								
BTEX 5035								
Benzene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:30	JGH	71-43-2	
Toluene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:30	JGH	108-88-3	
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:30	JGH	100-41-4	
p,m-Xylene	280	ug/kg	50	5035/8260B	01/29/07 15:30	JGH		
o-Xylene	Not detected	ug/kg	50	5035/8260B	01/29/07 15:30	JGH	95-47-6	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.11
Sample Tag: SO-OBG-228I-08-011507
Collected Date/Time: 01/15/2007 15:50
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	78	%	1	160.3	01/18/07 0:14	LBR		
Organics - Volatiles								
BTEX 5035								
Benzene	Not detected	ug/kg	60	5035/8260B	01/23/07 15:17	JGH	71-43-2	
Toluene	60	ug/kg	60	5035/8260B	01/23/07 15:17	JGH	108-88-3	BJ
Ethylbenzene	30	ug/kg	60	5035/8260B	01/23/07 15:17	JGH	100-41-4	J
p,m-Xylene	240	ug/kg	60	5035/8260B	01/23/07 15:17	JGH		
o-Xylene	20	ug/kg	60	5035/8260B	01/23/07 15:17	JGH	95-47-6	J

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.12
Sample Tag: SO-OBG-228L-17-011507
Collected Date/Time: 01/15/2007 16:10
Matrix: Soil
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz. Glass	None	Yes	4.4	IR
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				01/18/07 08:20	PCS		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.13
Sample Tag: EB-011507
Collected Date/Time: 01/15/2007 17:00
Matrix: Water Quality
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40 ml Glass	HCL	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

BTEX, GC/MS

Benzene	Not detected	ug/L	1	8260B	01/19/07 17:26	JGH	71-43-2	
Toluene	0.6	ug/L	1	8260B	01/19/07 17:26	JGH	108-88-3	J
Ethylbenzene	Not detected	ug/L	1	8260B	01/19/07 17:26	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	01/19/07 17:26	JGH		
o-Xylene	Not detected	ug/L	1	8260B	01/19/07 17:26	JGH	95-47-6	

J-Estimated value less than reporting limit, but greater than MDL



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S30393.14
Sample Tag: TB-011507
Collected Date/Time: 01/15/2007 17:10
Matrix: Methanol
COC Reference: 04131

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40 ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RDL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

BTEX 5035

Benzene	Not detected	ug/kg	50	5035/8260B	01/23/07 15:35	JGH	71-43-2	
Toluene	20	ug/kg	50	5035/8260B	01/23/07 15:35	JGH	108-88-3	BJ
Ethylbenzene	Not detected	ug/kg	50	5035/8260B	01/23/07 15:35	JGH	100-41-4	
p,m-Xylene	9	ug/kg	50	5035/8260B	01/23/07 15:35	JGH		BJ
o-Xylene	Not detected	ug/kg	50	5035/8260B	01/23/07 15:35	JGH	95-47-6	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

