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January 7, 2010

Municipal Light & Power  
1200 E. First Avenue  
Anchorage, AK 99501

Attn: Yelena Saville

**Re: November 2009 Geotechnical Borings and Soil Sampling at Hank Nikkels Plant No.1 821 East First Avenue, Anchorage, Alaska (ADEC RecKey: 1992210904904)**

This letter report presents the results of November 18, 2009 soil sampling and analysis activities at Municipal Light and Power's (ML&P) Hank Nikkels Plant No.1 located at 821 East First Avenue, Anchorage, Alaska.

**Introduction**

Facility expansion projects are being planned on the east side of the Main Office and Shop Building at Plant No.1 (Figure 1). Construction is anticipated to start in 2010. PDC Inc. coordinated with Shannon & Wilson, Inc. and Hoefler Consulting Group (HCG) to drill and collect soil samples at two borings, TH1 and TH2, in the vicinity of the project location (Figure 1). Shannon & Wilson, Inc. personnel collected soil samples for geotechnical analysis. An HCG geologist (Jeremy Craner) collected the soil samples for environmental analysis. This report discusses only the environmental soil sampling portion of the field activities conducted on November 18, 2009.

**Methods**

Soil management and sampling followed the Standard Operating Procedures (SOP) for Construction Projects, as established in the *Risk-Based Disposal Plan (RBDP) for PCB Contaminated Soil at ML&P, Hank Nikkels Plant No.1, 821 East First Avenue, Anchorage, Alaska* (HCG 2008). This drilling project was classified as a "small excavation" (Section 4.2.2.4), thus a site specific work plan was not required. Alaska Department of Environmental Conservation (ADEC) officials were notified of the planned work.

Environmental soil samples were collected and analyzed for potential contaminants to help with construction planning, especially soil management. The soil samples were collected by an ADEC qualified sampler.

Two borings (TH1 and TH2) were drilled in the southeast corner of the property on the east side of Main Office and Shop Building (Figure 1). Boring locations were adjusted in the field to accommodate underground

utilities, overhead power lines, and proximity to structures and buildings. Each boring was drilled to 40 feet below ground surface (bgs) using a CME 75 truck mounted hollow-stem drill rig. Borings were 8 inches in diameter and were sampled using a 2 foot x 2 inch split-spoon sampler. The soil cuttings were placed on visqueen plastic and segregated by the depth interval at which they originated. During backfilling, soil from each boring was placed back to the same approximate depth interval (i.e., soil removed from 2 feet bgs was placed back to 2 feet bgs) to the extent possible. Following backfilling at TH1, approximately 0.05 cubic yards of cuttings from the 0-3 foot interval remained and was placed into the 0-3 foot interval at TH2. Therefore, no soil cuttings were generated for offsite disposal. Borings were asphalt cold-patched once backfilling was complete.

Soil samples were collected using a new disposable stainless steel spoon for each sample. Decontamination of the split-spoon sampler was conducted after each sample was collected using three, 5-gallon buckets with warm water and brushes in a 3-stage system. Analconx/hot water solution composed the stage one bucket and warm water in the two following buckets. Deionized water was used as a final rinse. Approximately 10 gallons of decontamination water was generated and placed into a labeled 55-gallon drum. The water was clear (free of sediment) and had no sheen or petroleum odor. The drum was delivered to ML&P's facility at 1130 East First Avenue for temporary storage. After analytical results of the soil borings were reviewed, it was determined the water could be disposed into the municipal sanitary sewer system at ML&P.

Field and electronic boring logs for TH1 and TH2 are displayed in Attachment 1. Soil borings were logged and assigned a United Soil Classification System (USCS) type, and inspected to determine if visible or olfactory indicators (odor and/or staining) of contamination were present. At depth intervals of interest, soil samples were collected for laboratory analysis. Analytical samples were delivered to SGS, Inc. in Anchorage, Alaska using chain of custody procedures. Samples were collected compositely across the selected split-spoon sample interval and assigned a name based on the top portion of the sample interval as measured bgs (i.e., TH1-2 was sampled from 2-4 feet bgs). All samples were analyzed for Polychlorinated Biphenyls (PCBs); samples collected immediately above the water table were analyzed for PCBs, Residual Range Organics (RRO), and Volatile Organic Compounds (VOCs). A Photoionization Detector (PID) was used to measure and record "in-situ" readings after agitation of the soil within the split-spoon sampler. The air temperatures ranged from 0-5°F, thus PID readings are likely biased low.

### **Results**

The hydrogeology was similar at both TH1 and TH2 and consistent with known local conditions. As shown in the boring logs (Attachment 1), the lithology consisted of asphalt and silty gravel from 0-2 feet bgs, well-graded sands and gravel from 2-12.5 feet bgs, and clay ("Bootlegger Cove Clay") from 12.5-40 feet bgs. The water table was found at about 4.5 feet bgs in TH1 and at 4 feet bgs in TH2. It is assumed that the clay layer is undisturbed native soil. It could not be determined by inspection if the material above the clay layer was undisturbed native soils or fill material. However, the sands and gravels could have been partially reworked from previous grading and filling activities.

Soil sample results and associated sample intervals are displayed in Table 1. An ADEC Checklist, detailed HCG Data Quality Assessment, and SGS laboratory report are included in Attachment 2. The data set was 100% complete with no omissions or rejections with respect to analysis. The information fulfilled the data quality objectives of this sampling event.

Total PCB concentrations ranged from non-detect to 131 mg/Kg. Seven of 12 samples contained total PCB concentrations greater than 1 mg/Kg, which is the ADEC Method Two cleanup level for the under 40-inch zone as listed in 18 AAC 75.341, Table B1. PCB concentrations were generally lower at TH1 than TH2. At TH1, PCB concentrations were greatest near the water table (10.9 mg/Kg at TH1-4 and 1 mg/Kg at TH1-6). At TH2, PCBs were detected >1 mg/Kg from the ground surface to 12 feet bgs, with a maximum concentration of 131 mg/Kg at 10-12 feet bgs.

DRO and 1,2,4-Trichlorobenzene were detected at concentrations less than the ADEC Method Two cleanup level but above the ADEC Migration to Groundwater cleanup level at TH1-4. Tetrachloroethene (PCE) was detected at 0.0692 mg/Kg in TH2-2, which is greater than the Migration to Groundwater cleanup level of 0.024 mg/Kg (18 AAC 75.341, Tables B1 and B2).

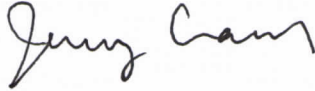
### **Discussion and Conclusion**

The soil sampling conducted in the area east of the Main Office and Shop building on November 18, 2009, plus historical sampling results of this area (HCG 2008, Figure 3-1), suggest PCB contaminated soil is present above 1 mg/Kg from near the ground surface to 12 feet bgs. PCBs were detected above 10 mg/Kg at a depth of 4 feet bgs or greater in both boring locations.

The Plant 1 RBDP (HCG 2008) should be consulted when planning future construction projects in the vicinity of borings TH1 and TH2 due to the presence of elevated PCB concentrations in the soil. Per the RBDP, any soil with PCBs >1 mg/Kg removed from the ground during construction activities must be disposed of offsite unless the soil can be used as backfill. Backfill material is permitted to contain up to 10 mg/Kg PCBs provided it is capped to prevent exposure to humans and the environment. If present in the excavation, soil with PCBs >50 mg/Kg must be excavated down to the water table and disposed of off-site.

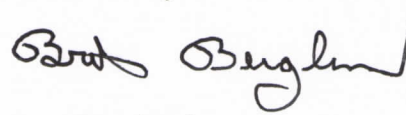
The detection of PCBs at 131 mg/Kg at a depth of 10 to 12 feet bgs is considered unusual and not easily explained. The water table is 4 feet bgs and PCBs have low solubility in water. It is also below the depth of typical construction activities (although this area may have been partially backfilled to raise the ground elevation). In addition, PID screening and laboratory analysis of the soil in both borings did not indicate that petroleum hydrocarbons were present at concentrations associated with light non-aqueous phase liquids (e.g., free product). The presence of free product in the soil can increase the solubility and mobility of PCBs in the subsurface, but these conditions do not appear to be present.

Prepared by:



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Reviewed by:



Bret Berglund  
Project Manager  
Hoefler Consulting Group

**References:**

HCG 2008. *Risk-Based Disposal Plan for PCB Contaminated Soil at ML&P Hank Nikkels Plant No.1, 821 East First Avenue, Anchorage, Alaska.* Revision 1. March 2008.

**Attachments:**

Table 1 – ML&P Plant 1 2009 Soil Sample Results  
Figure 1 – Test Boring Location Map  
Attachment 1 - Boring Logs  
Attachment 2 - ADEC Checklist, HCG Data Quality Assessment, and SGS laboratory report

Table 1 - Municipal Light and Power Plant No.1 2009 Soil Sample Results

Compound milligrams per kilogram (mg/Kg)	Screening Criteria		Sample Locations <sup>3</sup>																								Trip Blanks		Maximum Concentration <sup>4</sup>		Frequency of Detection <sup>5</sup>	Frequency Above Primary Screening Criteria <sup>5,6</sup>		
	Primary: Method Two (Under 40-Inch Zone) <sup>1</sup>	Secondary: Migration to Groundwater <sup>2</sup>	TH1-1 18-Nov-09 1096275001		TH1-2 18-Nov-09 1096275002		Primary TH1-4 18-Nov-09 1096275003		Replicate TH1-94 18-Nov-09 1096275004		TH1-6 18-Nov-09 1096275005		TH1-8 18-Nov-09 1096275006		TH1-20 18-Nov-09 1096275007		TH2-1 18-Nov-09 1096275008		TH2-2 18-Nov-09 1096275009		TH2-4 18-Nov-09 1096275010		TH2-6 18-Nov-09 1096275011		TH2-10 18-Nov-09 1096275012		TH2-20 18-Nov-09 1096275013						TRIP BLANK 18-Nov-09 1096275014	
			Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag		
Sample Interval (feet bgs)	--	--	0.5-1.0		2-4		4-5		4-5		6-8		8-10		20-22		1-2		2-4		4-6		6-8		10-12		20-22		--	--	--	--	--	--
USCS Soil Type	--	--	GM		SW		GW		GW		GW		GW		CL		GM		SW		SW		SW		GW		CL		--	--	--	--	--	--
<b>Fuels (AK102 and AK103)</b>																																		
Diesel Range Organics	10,250	250	--	--	--	--	2,960	=	2,550	=	--	--	--	--	--	--	--	--	54.6	=	--	--	--	--	--	--	--	--	--	--	2,960	=	2/2	0/2
Residual Range Organics	10,000	11,000	--	--	--	--	208	=	223	=	--	--	--	--	--	--	--	--	207	=	--	--	--	--	--	--	--	--	--	223	=	2/2	0/2	
<b>Polychlorinated Biphenyls (SW8082)</b>																																		
Aroclor-1016	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	0.284	=	0.294	=	[0.0201]	ND	--	--	0.294	=	2/12	0/12
Aroclor-1221	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	[0.0184]	ND	[0.017]	ND	[0.0201]	ND	--	--	[0.0201]	ND	0/12	0/12
Aroclor-1232	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	[0.0184]	ND	[0.017]	ND	[0.0201]	ND	--	--	[0.0201]	ND	0/12	0/12
Aroclor-1242	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	[0.0184]	ND	[0.017]	ND	[0.0201]	ND	--	--	[0.0201]	ND	0/12	0/12
Aroclor-1248	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	[0.0184]	ND	[0.017]	ND	[0.0201]	ND	--	--	[0.0201]	ND	0/12	0/12
Aroclor-1254	--	--	[0.0155]	ND	[0.0156]	ND	[0.0177]	ND	[0.017]	ND	[0.0178]	ND	[0.0175]	ND	[0.02]	ND	[0.0164]	ND	[0.017]	ND	[0.0168]	ND	[0.0184]	ND	[0.017]	ND	[0.0201]	ND	--	--	[0.0201]	ND	0/12	0/12
Aroclor-1260	--	--	0.879	=	0.364	=	10.9	=	10.1	=	1	=	0.0181	F	[0.02]	ND	2.81	=	3.18	=	10.7	=	89.7	=	131	=	0.0864	=	--	--	131	=	11/12	0/12
Total PCBs <sup>7</sup>	1.0	--	0.879	=	0.364	=	10.9	=	10.1	=	1	=	0.0181	F	[0.02]	ND	2.81	=	3.18	=	10.7	=	90.0	=	131	=	0.0864	=	--	--	131	=	11/12	7/12
<b>Volatile Organic Compounds (SW8260)</b>																																		
1,1,1,2-Tetrachloroethane	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,1,1-Trichloroethane	360	0.82	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,1,2,2-Tetrachloroethane	5.5	0.017	--	--	--	--	[0.0562]	ND	[0.0501]	ND	--	--	--	--	--	--	--	--	[0.0286]	ND	--	--	--	--	--	--	--	--	[0.015]	ND	[0.0562]	ND	0/2	0/2
1,1,2-Trichloroethane	11	0.018	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,1-Dichloroethane	900	25	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,1-Dichloroethene	0.85	0.03	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,1-Dichloropropene	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,2,3-Trichlorobenzene	--	--	--	--	--	--	0.233	=	0.223	=	--	--	--	--	--	--	--	--	[0.0286]	ND	--	--	--	--	--	--	--	--	[0.015]	ND	0.233	=	1/2	0/2
1,2,3-Trichloropropane	0.17	0.00053	--	--	--	--	[0.0562]	ND	[0.0501]	ND	--	--	--	--	--	--	--	--	[0.0286]	ND	--	--	--	--	--	--	--	--	[0.015]	ND	[0.0562]	ND	0/2	0/2
1,2,4-Trichlorobenzene	41	0.85	--	--	--	--	12.5	=	18.8	=	--	--	--	--	--	--	--	--	0.0372	F	--	--	--	--	--	--	--	--	[0.015]	ND	18.8	=	2/2	0/2
1,2,4-Trimethylbenzene	49	23	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,2-Dibromo-3-chloropropane	--	--	--	--	--	--	[0.116]	ND	[0.104]	ND	--	--	--	--	--	--	--	--	[0.0592]	ND	--	--	--	--	--	--	--	--	[0.0309]	ND	[0.116]	ND	0/2	0/2
1,2-Dibromoethane	0.6	0.00016	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,2-Dichlorobenzene	45	5.1	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,2-Dichloroethane	4.8	0.016	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,2-Dichloropropane	5.3	0.018	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,3,5-Trimethylbenzene	42	23	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,3-Dichlorobenzene	69	28	--	--	--	--	0.243	=	0.478	=	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	0.478	=	1/2	0/2
1,3-Dichloropropane	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
1,4-Dichlorobenzene	30	0.64	--	--	--	--	0.138	=	0.261	=	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	0.261	=	1/2	0/2
2,2-Dichloropropane	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
2-Butanone (MEK)	23,300	59	--	--	--	--	[0.292]	ND	[0.26]	ND	--	--	--	--	--	--	--	--	[0.149]	ND	--	--	--	--	--	--	--	--	[0.0777]	ND	[0.292]	ND	0/2	0/2
2-Chlorotoluene	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
2-Hexanone	--	--	--	--	--	--	[0.292]	ND	[0.26]	ND	--	--	--	--	--	--	--	--	[0.149]	ND	--	--	--	--	--	--	--	--	[0.0777]	ND	[0.292]	ND	0/2	0/2
4-Chlorotoluene	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
4-Isopropyltoluene	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
4-Methyl-2-pentanone (MIBK)	2,100	8.1	--	--	--	--	[0.292]	ND	[0.26]	ND	--	--	--	--	--	--	--	--	[0.149]	ND	--	--	--	--	--	--	--	--	[0.0777]	ND	[0.292]	ND	0/2	0/2
Benzene	11	0.025	--	--	--	--	[0.0187]	ND	[0.0167]	ND	--	--	--	--	--	--	--	--	[0.00954]	ND	--	--	--	--	--	--	--	--	[0.00498]	ND	[0.0187]	ND	0/2	0/2
Bromobenzene	--	--	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
Bromochloromethane	--	--	--	--																														

Table 1 - Municipal Light and Power Plant No.1 2009 Soil Sample Results

Compound milligrams per kilogram (mg/Kg)	Screening Criteria		Sample Locations <sup>3</sup>																								Trip Blanks		Maximum Concentration <sup>4</sup>		Frequency of Detection <sup>5</sup>	Frequency Above Primary Screening Criteria <sup>5,6</sup>		
	Primary: Method Two (Under 40-Inch Zone) <sup>1</sup>	Secondary: Migration to Groundwater <sup>2</sup>	TH1-1 18-Nov-09 1096275001		TH1-2 18-Nov-09 1096275002		Primary TH1-4 18-Nov-09 1096275003		Replicate TH1-94 18-Nov-09 1096275004		TH1-6 18-Nov-09 1096275005		TH1-8 18-Nov-09 1096275006		TH1-20 18-Nov-09 1096275007		TH2-1 18-Nov-09 1096275008		TH2-2 18-Nov-09 1096275009		TH2-4 18-Nov-09 1096275010		TH2-6 18-Nov-09 1096275011		TH2-10 18-Nov-09 1096275012		TH2-20 18-Nov-09 1096275013						TRIP BLANK 18-Nov-09 1096275014	
			Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag		
Sample Interval (feet bgs)	--	--	0.5-1.0		2-4		4-5		4-5		6-8		8-10		20-22		1-2		2-4		4-6		6-8		10-12		20-22		--	--	--	--	--	--
Styrene	200	0.96	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
tert-Butylbenzene	70	12	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	<b>0.0692</b>	=	1/2	0/2
Tetrachloroethene	10	0.024	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	<b>0.0692</b>	=	1/2	0/2
Toluene	220	6.5	--	--	--	--	[0.0562]	ND	[0.0501]	ND	--	--	--	--	--	--	--	--	[0.0286]	ND	--	--	--	--	--	--	--	--	[0.015]	ND	[0.0562]	ND	0/2	0/2
trans-1,2-Dichloroethene	160	0.37	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
trans-1,3-Dichloropropene	27	0.033	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
Trichloroethene	0.57	0.02	--	--	--	--	[0.0292]	ND	[0.026]	ND	--	--	--	--	--	--	--	--	[0.0149]	ND	--	--	--	--	--	--	--	--	[0.00777]	ND	[0.0292]	ND	0/2	0/2
Trichlorofluoromethane	990	86	--	--	--	--	[0.0562]	ND	[0.0501]	ND	--	--	--	--	--	--	--	--	[0.0286]	ND	--	--	--	--	--	--	--	--	[0.015]	ND	[0.0562]	ND	0/2	0/2
Vinyl chloride	4.3	0.0085	--	--	--	--	[0.045]	ND	[0.0401]	ND	--	--	--	--	--	--	--	--	[0.0229]	ND	--	--	--	--	--	--	--	--	[0.012]	ND	[0.045]	ND	0/2	0/2
Xylenes (total) <sup>7</sup>	63	63	--	--	--	--	[0.112]	ND	[0.1]	ND	--	--	--	--	--	--	--	--	[0.0573]	ND	--	--	--	--	--	--	--	--	[0.0299]	ND	[0.112]	ND	0/2	0/2
<b>Total Solids (SM2540)</b>																																		
Percent Solids	--	--	95.2	=	95.6	=	84	=	86.2	=	83.4	=	85.2	=	74.8	=	90.8	=	87.4	=	88	=	81	=	87.5	=	74.3	=	--	--	--	--	--	

Notes:

- 1 - Primary Screening Criteria: the cleanup level corresponds to the lowest value for direct contact or inhalation of soil as listed in 18 AAC 75.341, Tables B1 and B2, (Method Two cleanup levels) for the under 40 inch zone (October 2008).
- 2 - Secondary Screening Criteria: the value corresponds to the value listed in 18 AAC 75.341, Tables B1 and B2, Migration to Groundwater (October 2008).
- 3 - The field sample identification number, date collected and laboratory sample identification number are provided. The sample depth in feet is listed after the hyphen at the end of the sample identification number.
- 4 - The maximum concentration of a detected analyte is shown. If an analyte was not detected, then the highest MDL is shown. Trip blanks are not included.
- 5 - A parent and duplicate sample are counted as one sample. The higher of the two values are used for the purpose of counting detections and exceedances. Trip blanks are not included.
- 6 - Screening criteria values are from 18 AAC 75.341 Method Two Under 40-inch Zone.
- 7 - Total values were the summation of detected compounds only. If compounds were not detected, then the highest MDL was listed.

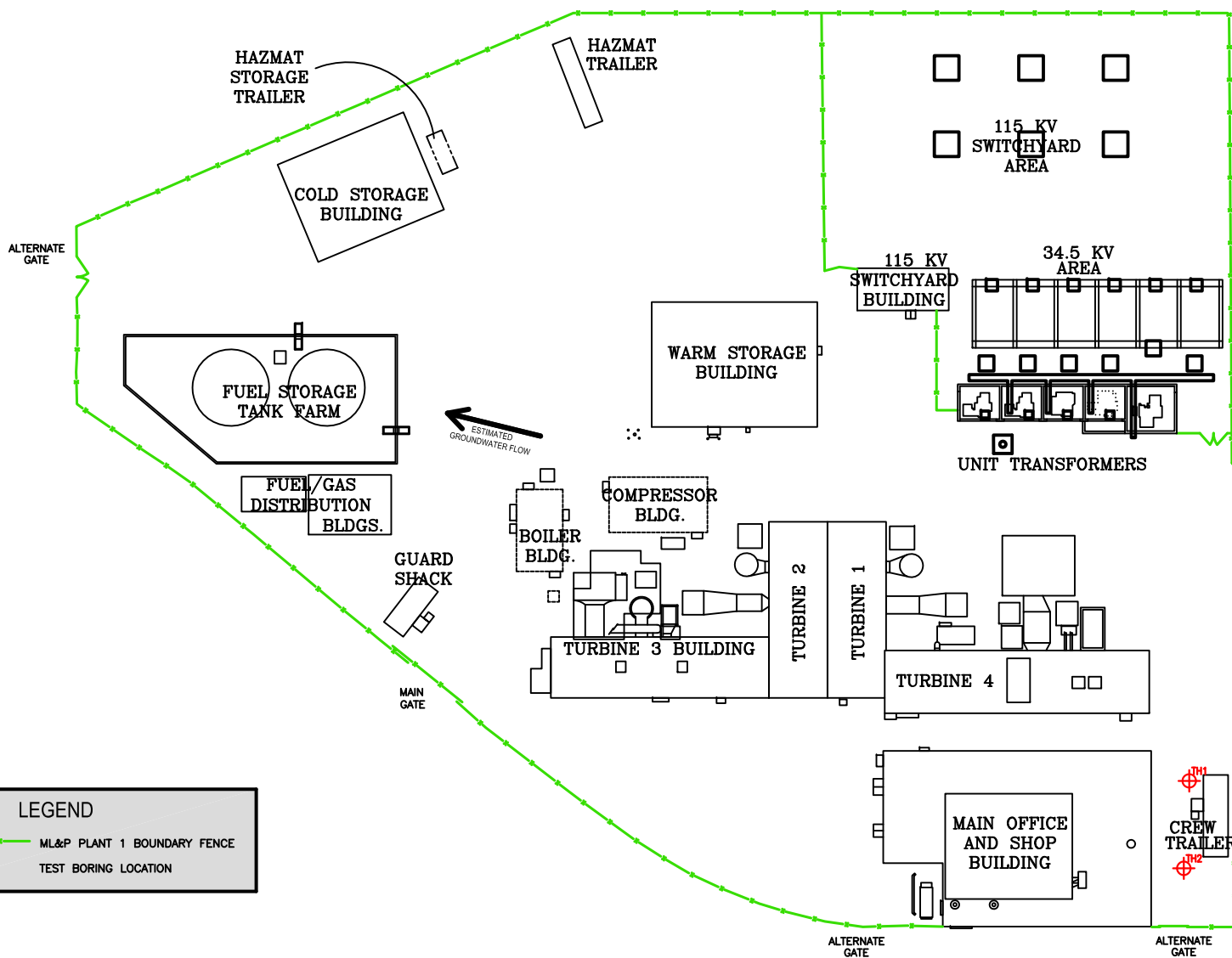
Data Flags

- ND nondetect, method detection limit is presented in brackets to the left
- F reported value was between the laboratory MDL and PQL
- J estimated value, a "+" or "-" indicates a positive or negative bias
- = A detected compound (concentration listed in column to the left)

Abbreviations

- Not applicable or screening criteria does not exist for this compound
- AAC Alaska Administrative Code
- bgs below ground surface
- MDL Method Detection Limit
- mg/Kg milligrams per kilogram
- PCB Polychlorinated Biphenyl
- PQL Practical Quantitation Limit
- USCS United Soil Classification System

**bold and shaded** - The value exceeds the primary screening criteria (Method Two Under 40-inch Zone).  
**shaded** - The value exceeds the secondary screening criteria (Migration to Groundwater).



**LEGEND**

—+— ML&P PLANT 1 BOUNDARY FENCE

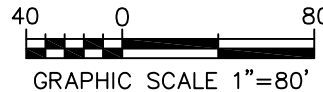
⊕ TEST BORING LOCATION



# TEST BORING LOCATION MAP

DRILLED NOVEMBER 18, 2009

ML&P PLANT 1  
ANCHORAGE, ALASKA



**FIGURE 1**

DATE:	12/21/2009
PROJECT NUMBER:	4904-017



Attachment 1

Boring Logs





CONSULTING GROUP

3401 Minnesota Drive  
Anchorage, AK 99503

**Borehole/Well ID: TH1 (North Borehole)**

**Location: ML & P**

**Drill Rig Type: CME 75**

**Completion Date: 11/18/2009**

**Drill Method: Hollow-stem**

**Project No: 4904-017**

**Sampling Method: Split-spoon 2-in X 2 ft**

**Logged by: Jeremy Craner**

**Total Depth (bgs): 40 ft**

**Drilled by: Discovery Drilling**

**Depth to Water (bgs): 4.5 ft**

Depth (ft)	Lithologic Column	Description/Comments	Blow Counts	Recovered/Driven	Odor/Stain?	In situ PID	Sample ID
0-0.5	Asphalt	Asphalt, 0.5' thick, frozen.					
0.5-1.5	GM	GM, silty gravel, light brown/gray, no odor/stain.	150	6/6	N/N	0	TH1-1
1.5-2.5	SW	SW, well-graded sand w/ occasional gravel, light brown, dry, no odor/stain.	7	3/24	N/N	0	TH1-2
2.5-4.5	GW	GW, well-graded gravel/sand, silt, light brown/dark brown, saturated, loose, strong odor/stain.	5	8/24	Y/N	15	TH1-4
4.5-6.5	GW	GW, saturated gravel w/ fine sand, loose, no odor/stain.	6	6/24	N/N	0	TH1-6
6.5-8.5	GW	GW, saturated well-graded gravel w/ sand, gray, loose, slight HC odor, no stain.	10 11 10 11	12/24	Y/N	0	TH1-8
8.5-12	CL	CL, clay, light gray, saturated, medium plasticity, sticky, no odor/stain. "Bootlegger Cove Clay".					
12-16	CL		2	24/24	N/N	0	no sample collected
16-22	CL						
22-24	CL		1	24/24	N/N	0	TH1-20
24-40	CL						

DATE: 12-14-2009

DRAWN BY: IRP

CHECKED BY: JC

NOTES: Temperature: 0-5° F. Cuttings were placed on visqueen and segregated based on original depth. Clay and sand/gravel also segregated. No clay in surface cuttings. Reversed augers out of hole. Able to place most cuttings back downhole. ~1/8 drum cuttings generated. Hole was asphalt cold patched.



CONSULTING GROUP

3401 Minnesota Drive  
Anchorage, AK 99503

**Borehole/Well ID: TH2 (South Borehole)**

**Location: ML & P**

**Completion Date: 11/18/2009**

**Project No: 4904-017**

**Logged by: Jeremy Craner**

**Drilled by: Discovery Drilling**

**Drill Rig Type: CME 75**

**Drill Method: Hollow-stem**

**Sampling Method: Split-spoon 2-in X 2 ft**

**Total Depth (bgs): 40 ft**

**Depth to Water (bgs): 4'**

Depth (ft)	Lithologic Column	Description/Comments	Blow Counts	Recovered/Driven	Odor/Stain?	In situ PID	Sample ID
2		Aphalt					
2		GM, silty/sandy gravel, brown, frozen, no odor/stain.	58 47	8/12	N/N	0.6	TH2-1
4		SW, well-graded sand w/ silt, brown, loose, wet, no odor/stain.	5 4 4	6/24	N/N	0	TH2-2
4		SW, well-graded sand w/ silt, brown, loose, wet, no odor/stain. Water table at 4'.	8 8	2/24	N/N	0	TH2-4
6		SW, well-graded gravel w/ sand, brown, saturated, loose, visible HC sheen on standing water, slight HC odor/no stain.	5 5 11	4/24	Y/N	0	TH2-6
10		GW, well-graded gravel w/ sand, brown, saturated, loose, slight HC odor, no stain.	11 10 6 5	16/24	Y/N	0	TH2-10
14		CL, gray, medium plasticity, sticky, saturated, no HC odor/stain. "Bootlegger Cove Clay".					
20			8 2 1	24/24	N/N	0	TH2-20
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

DATE: 12-14-2009

DRAWN BY: IRP

CHECKED BY: JC

NOTES: Temperature: 0-5° F. Cuttings segregated and placed back dowhole to approximate original depth, same as TH1. Remainder of TH1 cuttings placed into TH2 borehole. Hole was asphalt cold patched. No cuttings to dispose of following drilling and sampling of TH1 & TH2; only ~10 gallons of decon water generated for disposal.



# LOG OF EXPLORATORY BOREHOLE/MONITORING WELL DETAILS

BOREHOLE/WELL DESIGNATION: TH1 (north)

PROJECT NAME: MLTP geotech  
LOCATION: Plant #1  
PROJECT MANAGER: BB  
LOGGED BY: JC  
PROJECT NUMBER: \_\_\_\_\_  
SHEET 1 OF 1

START TIME/END TIME: 900 / 1200 Temp: 0-50°F  
DATE COMPLETED: 11-18-09  
TOTAL BOREHOLE DEPTH: 40 feet  
DRILLING CONTRACTOR: Discovery Drilling  
DRILL RIG TYPE: CME 75 Half w stem  
SAMPLING METHOD: SPLIT SPOON 2-inch x 2-ft

REC'D  
DRIVEN

BLOW COUNTS (per 6 inches)	DRIVEN RECOVERED (inches)	PID (ppmv)	SAMPLE ID	TIME SAMPLED	DEPTH (ft)	SAMPLES	LITHOLOGY	LITHOLOGIC DESCRIPTION
150	20/4	0	TH1-1	930	1	X	ASPHALT 0.5' thick	0.5' ASPHALT
	3/24	0	TH1-2	950	2	X		Frozen silty gravel, dry, light brown/gray, odor/stain (GM) NO STAIN
	8/24	15	TH1-4	955	4	X		2-4' Well graded sand w/ occasional gravel, dry, light brown, no odor/stain (GW)
	6/24	0	TH1-6	1010	6	X		4-6' Water Table @ 4.5-5'. Well graded gravel sand, silt light brown/dark brown, Strong ODOR/STAIN, loose (GW) SATURATED
	12/24	0	TH1-8	1015	8	X		6-8' Saturated gravel w/ fine sand, no odor/stain, loose. (GW)
			TH1-10		10	X		8-10' Saturated well graded gravel w/ Sand, slight HC odor, no stain, gray, loose (GW)
					11			
					12			Bootlegger clay @ 12.5' bgs (CL)
					13			
					14			
					15			
	24/24	0	NO SAMPLE COLLECTED		16			15-17' - Clay, light gray, saturated, no odor/stain, med. plasticity, sticky. (CL)
					17			
					18			
					19			
					20			
	24/24	0	TH1-20	1030	20	X		20-22' same as above. "BOOTLEGGERS CLAY" (CL)
					21	X		
					22	X		
					23			
					24			
					25			
					26			
					27			
					28			
					29			
					30			* "BOOTLEGGERS CLAY": 30-32', 35-37', 37'-40'. NOTES

FROZEN  
DUP  
↑  
↓

Samples  
TH1-1  
TH1-2  
TH1-4 (DUP TH1-4)  
TH1-6  
TH1-8  
TH1-10  
TH1-20

Analysis  
PCBs  
PCBs, DRORRO, vas  
PCBs  
PCBs  
PCBs  
PCBs

CUTTINGS were placed on visqueen and segregated based on original depth. (Clay) + sand/gravel also segregated. No clay in surface cuttings. Reversed augers out of hole. Able to place most cuttings back down hole. 1/2 drum cuttings generated. Hole cold-patched.



**LOG OF EXPLORATORY BOREHOLE/MONITORING WELL DETAILS**  
**BOREHOLE/WELL DESIGNATION: TH2 (South boring)**

PROJECT NAME: MUP grabch START TIME/END TIME: 1245/1530 Temp: 0-50F  
 LOCATION: Plant 1 DATE COMPLETED: 11-18-09  
 PROJECT MANAGER: BB TOTAL BOREHOLE DEPTH: 40 feet  
 LOGGED BY: JC DRILLING CONTRACTOR: Discovery Drilling  
 PROJECT NUMBER: \_\_\_\_\_ DRILL RIG TYPE: CME 75 Hollow-stem  
 SHEET 1 OF 1 SAMPLING METHOD: Split Spoon 2-inch x 2 ft

BLOW COUNTS (per 6 inches)	DRIVEN/RECOVERED (inches)	PID (ppmv)	SAMPLE ID	TIME SAMPLED	DEPTH (ft)	SAMPLES	LITHOLOGY	LITHOLOGIC DESCRIPTION
58	7/12	0.6	TH2-1	1311	1	X	8" ASPHALT	
47	6/24	0	TH2-2	1320	2	X		1-2': Silty/sandy gravel, brown, no odor/staining (CA)
33	2/24	0	TH2-3	1330	3	X		2-4': Well graded sand w/s.l.t., brown, loose, NO ODR/STAIN, sat w/ (SW)
24	4/24	0	TH2-4	1340	4	X		4-6': Same as above, saturated. (SW) @ 4'
17			TH2-5		5	X		6-8': " Standing H <sub>2</sub> O, occasional (SW) gravel. Shear on standing H <sub>2</sub> O. (SW)
11	14/24	0	TH2-6	1350	6	X		
10			TH2-7		7	X		
5			TH2-8		8	X		
			TH2-9		9	X		
			TH2-10		10	X		10-12: Well graded gravel w/sand, saturated, brown, slight HC odor, NO stain: loose (GW)
					11	X		
					12	X		
					13	X		
					14	X		
					15	X		12.5': Bootlegger clay (CL)
					16	X		
					17	X		
					18	X		
					19	X		
					20	X		20-22': Gray "Bootlegger" clay (CL) med. plasticity, sticky, saturated no HC odor/staining
					21	X		
					22	X		
					23	X		
					24	X		
					25	X		
					26	X		
					27	X		
					28	X		22-40' Bootlegger clay. Same as above.
					29	X		
					30	X		

Samples

- TH2-1
- TH2-2
- TH2-3
- TH2-4
- TH2-6
- TH2-10
- TH2-20

Analysis

- PCBS
- PCBS, PRO/PRO, VOLG
- PCBS
- PCBS
- PCBS
- PCBS
- PCBS

- NOTES:
- cuttings segregated and placed back down hole same as TH1.
  - All cuttings placed back down hole. Remainder of TH1 cuttings placed into TH2 borehole. Hole cold-patched ONLY w/ 10 gal.
  - NO CUTTINGS TO DISPOSE OF, acca water.



Attachment 2

ADEC Checklist, HCG Data Quality Assessment, and  
SGS Laboratory Report

## Laboratory Data Review Checklist

Completed by:

Title:

Date:

CS Report Name:

Report Date:

Consultant Firm:

Laboratory Name:

Laboratory Report Number:

ADEC File Number:

ADEC RecKey Number:

### 1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes     No

Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes     No

Comments:

### 2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes     No

Comments:



b. Correct analyses requested?

Yes  No

Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?

Yes  No

Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes  No

Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes  No

Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes  No

Comments:

e. Data quality or usability affected? Explain.

Comments:

4. Case Narrative

a. Present and understandable?

Yes  No

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes  No

Comments:

c. Were all corrective actions documented?

Yes  No

Comments:

None were taken.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

no impact

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes  No

Comments:

b. All applicable holding times met?

Yes  No

Comments:

c. All soils reported on a dry weight basis?

Yes  No

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes  No

Comments:

PQLs and MDLs were evaluated against 18 AAC 75, Tables B1 and B2 Soil Migration to Groundwater Cleanup Levels for soils for the Under 40-inch Zone (October 2008). MDLs that did not meet project goals are presented in Table 6. There is no impact to the data quality. It is typical that MDLs for these analytes be higher than migration to groundwater cleanup levels due to the limitations of the methodology for volatile organics.

e. Data quality or usability affected? Explain.

Comments:

no impact

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes  No                      Comments:

ii. All method blank results less than PQL?

Yes  No                      Comments:

All method blank results were less than the MDL.

iii. If above PQL, what samples are affected?

Comments:

no impact

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No                      Comments:

not applicable

v. Data quality or usability affected? Explain.

Comments:

no impact

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No                      Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No                      Comments:

Not applicable

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No Comments:

VOC analyte 1,1-Dichloroethene recovered at 133% in the MS, exceeding allowable limits of 75-125%. All associated samples were nondetect for this analyte, therefore, no data was flagged. Data was considered not impacted, and all data was considered usable. Aroclor-1260 recovered at 52%, below allowable limits of 61-130% in the MS. Aroclor-1016 recovered within limits.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

not applicable

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No Comments:

Regarding Aroclors, both the LCS and MSD were within acceptable limits. It was not considered appropriate to calculate recovery since the spiked amount of Aroclor-1260 was less than the concentration in the parent sample (approximately one-half).

vii. Data quality or usability affected? Explain.

Comments:

No data were qualified and all data was considered usable.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes  No Comments:

- ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes  No                      Comments:

The surrogate recovery was within allowed limits for all samples. 4-Bromofluorobenzene surrogate recovered low in the VOC MS and MSD. Recoveries of 59% (MS) and 56% (MSD) were below acceptable limits of 65-144%.

- iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes  No                      Comments:

With the exception of 1,1-Dichloroethene (which recovered high), all analytes (including two other surrogates) recovered in range for this MS/MSD. Additionally, the LCS recovery was acceptable for all analytes. It is likely that the low recoveries were due to matrix interference. The parent sample was not from this work order. As only the parent sample would be flagged, no data was flagged as a result of this outage.

- iv. Data quality or usability affected? Explain.

Comments:

Data was considered not impacted. All data was considered usable.

- d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

- i. One trip blank reported per matrix, analysis and cooler?

Yes  No                      Comments:

- ii. All results less than PQL?

Yes  No                      Comments:

All trip blank results were less than the MDL.

- iii. If above PQL, what samples are affected?

Comments:

not applicable

- iv. Data quality or usability affected? Explain.

Comments:

no impact

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes  No

Comments:

One field replicate was collected per two samples for DRO/RRO and VOCs. One field replicate was collected per twelve samples for PCBs. This meets the ADEC requirement of one field replicate per ten samples per method and matrix for DRO/RRO and VOC. PCBs were collected primarily for soil characterization, therefore, ten percent field replicate collection was not required.

ii. Submitted blind to lab?

Yes  No

Comments:

Table 4 presents the parent sample, field duplicate and analyses. Table 5 presents field duplicate RPD exceedances. The RPDs for all duplicate results not listed in Table 5 were within criteria. Data were not flagged in cases when either result was between the MDL and PQL or nondetect

iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes  No

Comments:

Table 5 presents field duplicate RPD exceedances. The RPDs for all duplicate results not listed in Table 5 were within criteria. Data were not flagged in cases when either result was between the MDL and PQL or nondetect.

iv. Data quality or usability affected? Explain.

Comments:

All impacted results were significantly less than 18 AAC 75 Method Two under 40-inch zone and Migration to Groundwater limits, therefore, the impact was considered minimal. All data was considered usable.

f. Decontamination or Equipment Blank (if applicable)

Yes    No    Not Applicable

i. All results less than PQL?

Yes    No   Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFC EE, Lab Specific, etc.)

a. Defined and appropriate?

Yes    No   Comments:



# 1 LAB ANALYSIS, DATA VALIDATION, AND REPORTING

This Data Quality Assessment (DQA) covers sampling for ML&P Plant 1 completed on November 18, 2009. SGS in Anchorage, Alaska (an ADEC-approved laboratory) provided the analytical support for this project. Table 1 provides the laboratory work order number and corresponding receipt temperatures.

Samples were taken according to the specifications in Table 2. The chain of custody forms were completed as the samples were packaged into a cooler for transport. A trip blank, temperature blank, and gel ice were added as required. The samples were placed in a cooler at the time of collection and were kept chilled until delivery to the laboratory. Documentation pertaining to chain-of-custody and sample condition was filed in field and laboratory records.

**Table 1 Summary of Work Orders and Cooler Receipt Information**

Work Order Number	Matrix	Date of Receipt	Temperature Blank	Cooler Temperature
1096275	Soil	11/19/09	5.8°C	NA

NA – Not Applicable

**Table 2 Summary of Sample Containers and Preservatives**

Method	Container Volume	Container Material	Preservative	Hold time (days)	Trip Blank
VOCs (SW8260)	50 grams; 4 oz. pre-tared <sup>1</sup>	Amber Glass	Methanol 4°C (±2°)	14	Required
PCB (SW8082)	4 oz.	Amber Glass	4°C (±2°)	None	Not Required
DRO/RRO and PCBs (AK102/103 and SW8082)	4 oz.	Amber Glass	4°C (±2°)	14 (DRO/RRO) None (PCBs)	Not Required

Notes: <sup>1</sup> Minimum of 25 grams must be added to the jar, preferably 50 grams to achieve a good detection limit. Soil must be completely submerged in the methanol

The SGS final report was presented as hard copy Level II data deliverable package and electronic deliverable compatible with Microsoft Access. The analytic data was reviewed for consistency with *ADEC Technical Memorandum 06-002, Environmental Laboratory Data and Quality Assurance* (ADEC 2009) requirements. An ADEC Laboratory Data Review Checklist was completed and was included in this report (Attachment 2). Any anomalies to the requirements for precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS) are discussed below and the data were flagged where appropriate.

The chain of custody was not signed under “relinquished by” an HCG employee. It was signed by an SGS employee upon receipt at the laboratory. As the samples were in HCG custody until delivery to the laboratory, there was no impact to data quality or usability.

## Application of Data Flags

General data quality flagging conventions in Table 3 were used to indicate quality control anomalies. Data was flagged, where appropriate. A data quality summary is provided below.

**Table 3 Data Qualifiers**

Qualifier	Description
F	The analyte was positively identified but the associated concentration was estimated above the method detection limit (MDL) and below the practical quantitation limit (PQL).
J	The analyte was positively identified, the quantitation was an estimate. Where applicable a "+" or "-" was appended to indicate positive or negative bias, respectively.
ND	The analyte was analyzed for, but not detected. The associated numerical value was at or below the MDL.
M	A matrix effect was present. Where applicable a "+" or "-" was appended to indicate positive or negative bias, respectively.

**Preservation, Temperature and Hold Time**

Temperature blank and cooler receipt temperatures are presented in Table 1. Preservation and holding time criteria were considered met.

**PRECISION**

Precision was measured from the Field Duplicate, and the Relative Percent Difference (RPD) between Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike (MS)/Matrix Spike Duplicate (MSD).

**Field Replicates**

One field replicate was collected per two samples for DRO/RRO and VOCs. One field replicate was collected per twelve samples for PCBs. This meets the ADEC requirement of one field replicate per ten samples per method and matrix for DRO/RRO and VOC. PCBs were collected primarily for soil characterization, therefore, ten percent field replicate collection was not required.

Table 4 presents the parent sample, field duplicate and analyses. Table 5 presents field duplicate RPD exceedances. The RPDs for all duplicate results not listed in Table 5 were within criteria. Data were not flagged in cases when either result was between the MDL and PQL or nondetect. All impacted results were significantly less than 18 AAC 75 Method Two under 40-inch zone and Migration to Groundwater limits, therefore, the impact was considered minimal. All data was considered usable.

**Table 4 Field Replicates**

Primary Sample ID (LabID)	Replicate Sample ID (Lab ID)	Analysis	Method	Matrix
TH1-4 (1096275003)	TH1-94 (1096275004)	VOCs	SW8260	Soil
		DRO/RRO	AK102/103	
		PCBs	SW8082	

**Table 5 Field Replicates Failing Precision Criteria**

Method	Analyte	Primary Result (mg/Kg)	Replicate Result (mg/Kg)	RPD	Units	Flag
<b>TH1-4 (1096275003) and Replicate TH1-94 (1096275004)</b>						
SW8260	1,4-Dichlorobenzene	0.138	0.261	62%	mg/Kg	J
	Naphthalene	0.126 F	ND (0.0501)	NA	mg/Kg	NA
	1,3-Dichlorobenzene	0.243	0.478	65%	mg/Kg	J

### **Laboratory Control Sample and Duplicate (LCS/LCSD) and Matrix Spike and Duplicate (MS/MSD) RPD**

Analytical batch precision was established through the extraction and analysis of an LCS/LCSD for DRO and RRO. For PCBs and VOCs, batch precision was established through the analysis of an MS/MSD. All RPDs were within control limits.

## **1.1 ACCURACY**

Accuracy was measured from laboratory QC sample percent recoveries to include LCS/LCSD, MS/MSD, and surrogates. Accuracy was also evaluated by determining whether any deviations to method or laboratory requirements for CCV were noted in the case narrative(s).

### **Continuing Calibration Verification (CCV)**

No CCVs are noted in the case narrative as outside acceptable limits.

### **Surrogates**

4-Bromofluorobenzene surrogate recovered low in the VOC MS and MSD. Recoveries of 59% (MS) and 56% (MSD) were below acceptable limits of 65-144%. With the exception of 1,1-Dichloroethene (which recovered high), all analytes (including two other surrogates) recovered in range for this MS/MSD. Additionally, the LCS recovery was acceptable for all analytes. It is likely that the low recoveries were due to matrix interference. The parent sample was not from this work order. As only the parent sample would be flagged, no data was flagged as a result of this outage. Data was considered not impacted, and all data was considered usable.

All other surrogate recoveries were within acceptable limits. No data was flagged based on surrogate recovery.

### **Laboratory Control Sample and Duplicate (LCS/LCSD) and Matrix Spike and Duplicate (MS/MSD) Recovery**

One LCS/LCSD was analyzed for DRO/RRO, for each batch of 20 samples or less. An LCS and MS/MSD were analyzed for PCBs and VOCs, for each batch of 20 samples or less.

VOC analyte 1,1-Dichloroethene recovered at 133% in the MS, exceeding allowable limits of 75-125%. All associated samples were nondetect for this analyte, therefore, no data was flagged. Data was considered not impacted, and all data was considered usable.

Aroclor-1260 recovered at 52%, below allowable limits of 61-130% in the MS. Aroclor-1016 recovered within limits. Both the LCS and MSD were within acceptable limits. It was not considered appropriate to calculate recovery since the spiked amount of Aroclor-1260 was less than the concentration in the parent sample (approximately one-half). Therefore, no data were qualified and all data was considered usable.

All LCS/LCSD recoveries were within allowable limits.

### **Internal Standards**

No internal standards were noted in the case narrative as outside allowable limits.

## **1.2 REPRESENTATIVENESS**

The data deliverables were consistent with the site conditions. Samples were collected from planned locations.

### **1.3 COMPARABILITY**

Comparability between laboratories was not applicable to this investigation. Standard ADEC and SW846 methods were used by SGS, an ADEC-certified laboratory.

### **1.5 COMPLETENESS**

Completeness was measured as the number of usable results versus the total number of results. The data set was 100% complete with no omissions or rejections with respect to analysis. The information fulfilled the data quality objectives of this sampling event.

### **1.6 SENSITIVITY**

Sensitivity was measured by evaluating whether the PQL was less than the regulatory clean up levels or project required goals. In cases where the PQL did not meet goals, the MDL was evaluated. Additionally, sensitivity was evaluated by determining whether method blank and trip blank results were less than the PQL.

#### **Blanks (Method and Trip)**

One trip blank was included in the cooler. One method blank was analyzed for every analytical batch of twenty samples or less. There were no detections above than the MDL in either the method blank or trip blank.

#### **Reporting Limits**

PQLs and MDLs were evaluated against 18 AAC 75, Tables B1 and B2 Soil Migration to Groundwater Cleanup Levels for soils for the Under 40-inch Zone (October 2008). MDLs that did not meet project goals are presented in Table 6. There was no impact to the data quality. It is typical that MDLs for these analytes be higher than migration to groundwater cleanup levels due to the limitations of the methodology for volatile organics.

**Table 6 MDLs Above Cleanup Criteria**

<b>Compound: milligrams per kilogram (mg/Kg)</b>	<b>18 AAC 75 Method 2 Cleanup Level (Migration to Groundwater)</b>	<b>TH1-4 18-Nov-09 1096275003</b>	<b>TH1-94 18-Nov-09 1096275004</b>	<b>TH2-2 18-Nov-09 1096275009</b>	<b>Trip Blank 18-Nov-09 1096275014</b>
1,1,2,2-Tetrachloroethane	0.017	[0.0562] ND	[0.0501] ND	[0.0286] ND	NA
1,1,2-Trichloroethane	0.018	[0.0292] ND	[0.026] ND	[0.0149] ND	NA
1,2,3-Trichloropropane	0.00053	[0.0562] ND	[0.0501] ND	[0.0286] ND	[0.015] ND
1,2-Dibromoethane	0.00016	[0.0292] ND	[0.026] ND	[0.0149] ND	[0.00777] ND
1,2-Dichloroethane	0.016	[0.0292] ND	[0.026] ND	NA	NA
1,2-Dichloropropane	0.018	[0.0292] ND	[0.026] ND	NA	NA
Carbon tetrachloride	0.023	[0.0292] ND	[0.026] ND	NA	NA
Methylene chloride	0.016	[0.116] ND	[0.104] ND	[0.0592] ND	[0.0238] ND
Tetrachloroethene	0.024	[0.0292] ND	[0.026] ND	NA	NA
Trichloroethene	0.020	[0.0292] ND	[0.026] ND	NA	NA
Vinyl chloride	0.0085	[0.045] ND	[0.0401] ND	[0.0229] ND	[0.0309] ND

NA – MDL met project limits



**SGS North America Inc.**  
**Alaska Division**  
**Level II Laboratory Data Report**

Project: ML&P Plant 1  
Client: Hoefler Consulting Group  
SGS Work Order: 1096275

Released by:

**Contents:**

Cover Page  
Case Narrative  
Final Report Pages  
Quality Control Summary Forms  
Chain of Custody/Sample Receipt Forms

**Note:**  
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

**Client Name: Hoefler Consulting Group**  
**Project Name: ML&P Plant 1**  
**Workorder No.: 1096275**

**Sample Comments**

Refer to the sample receipt form for information on sample condition.

<u>Lab Sample ID</u>	<u>Sample Type</u>	<u>Client Sample ID</u>
1096275003	PS	TH1-4
	AK103 - Unknown hydrocarbon with several peaks is present. AK102 - The pattern is consistent with a weathered middle distillate.	
1096275004	PS	TH1-94
	AK103 - Unknown hydrocarbon with several peaks is present. AK102 - The pattern is consistent with a weathered middle distillate.	
1096275009	PS	TH2-2
	AK102/103 - Unknown hydrocarbon with several peaks is present.	
940120	MS	TH1-2(1096275002MS)
	8082A - MS does not meet QC criteria for Aroclor 1260 due to matrix interference. See the LCS for accuracy.	
940165	MS	1096277005A(940164MS)
	8260B - BFB (surrogate) recovery does not meet QC criteria (biased low). Sample was analyzed twice for confirmation and result was confirmed. 8260B - MS recovery for 1,1-dichloroethene does not meet QC criteria (biased high). See LCS for accuracy.	
940166	MSD	1096277005A(940164MSD)
	8260B - BFB (surrogate) recovery does not meet QC criteria (biased low). Sample was analyzed twice for confirmation and result was confirmed.	





## Laboratory Analytical Report

Client: **Hoefler Consulting Group**

3401 Minnesota Dr.  
Suite 300  
Anchorage, AK 99503

Attn: **Wendy Mitchell**

T: (907)563-2196 F:(907)563-2164  
wmitchell@hoeflernet.com

Project: **ML&P Plant 1**

Workorder No.: **1096275**

### Certification:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, other than the conditions noted on the sample data sheet(s) and/or the case narrative. This certification applies only to the tested parameters and the specific sample(s) received at the laboratory.

If you have any questions regarding this report, or if we can be of further assistance, please contact your SGS Project Manager.

Jennifer Serna

Project Manager

Enclosed are the analytical results associated with this workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program is available at your request.

The Laboratory certification numbers are AK971-05 (DW), UTS-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any assistance, please contact your SGS Project Manager at 907-562-2343. All work is being provided under SGS general terms and conditions ([http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm))

The following descriptors may be found on your report which will serve to further qualify the data.

MDL	Method Detection Limit
PQL	Practical Quantitation Limit (reporting limit).
CL	Control Limit
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
D	The analyte concentration is the result of dilution.
GT	Greater Than
LT	Less Than
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
E	The analyte result is above the calibrated range.
R	Rejected
DF	Analytical Dilution Factor
JL	The analyte was positively identified, but the quantitation is a low estimation.
<Surr>	Surrogate QC spiked standard
<Surr/IS>	Surrogate / Internal Standard QC spiked standard
QC	Quality Control
QA	Quality Assurance
MB	Method Blank
LCS (D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
BMS(D)	Site Specific Matrix Spike (Duplicate)
RPD	Relative Percent Difference
ICV	Initial Calibration Verification
CCV	Continuous Calibration Verification
MSA	Method of Standard Addition

Notes: Soil samples are reported on a dry weight basis unless otherwise specified

All DRO/RRO analyses are integrated per SOP.



## SAMPLE SUMMARY

Print Date: 12/3/2009 4:17 pm

**Client Name: Hoefler Consulting Group**

**Project Name: ML&P Plant 1**

**Workorder No.: 1096275**

### Analytical Methods

<u>Method Description</u>	<u>Analytical Method</u>
Diesel/Residual Range Organics	AK102
Diesel/Residual Range Organics	AK103
Percent Solids SM2540G	SM20 2540G
SW8082 PCB's	SW8082A
VOC 8260 (S) Field Extracted	SW8260B

### Sample ID Cross Reference

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
1096275001	TH1-1
1096275002	TH1-2
1096275003	TH1-4
1096275004	TH1-94
1096275005	TH1-6
1096275006	TH1-8
1096275007	TH1-20
1096275008	TH2-1
1096275009	TH2-2
1096275010	TH2-4
1096275011	TH2-6
1096275012	TH2-10
1096275013	TH2-20
1096275014	TRIP BLANK 9-107

### Detectable Results Summary

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-1**

SGS Ref. #: 1096275001

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	879	ug/Kg

Client Sample ID: **TH1-2**

SGS Ref. #: 1096275002

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	364	ug/Kg

Client Sample ID: **TH1-4**

SGS Ref. #: 1096275003

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	2960	mg/Kg
Residual Range Organics	208	mg/Kg

**Polychlorinated Biphenyls**

Aroclor-1260	10900	ug/Kg
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,4-Dichlorobenzene	138	ug/Kg
1,2,4-Trichlorobenzene	12500	ug/Kg
Naphthalene	126 J	ug/Kg
1,3-Dichlorobenzene	243	ug/Kg
1,2,3-Trichlorobenzene	233	ug/Kg

Client Sample ID: **TH1-94**

SGS Ref. #: 1096275004

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	2550	mg/Kg
Residual Range Organics	223	mg/Kg

**Polychlorinated Biphenyls**

Aroclor-1260	10100	ug/Kg
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,4-Dichlorobenzene	261	ug/Kg
1,2,4-Trichlorobenzene	18800	ug/Kg
1,3-Dichlorobenzene	478	ug/Kg
1,2,3-Trichlorobenzene	223	ug/Kg

Client Sample ID: **TH1-6**

SGS Ref. #: 1096275005

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	1000	ug/Kg

**Detectable Results Summary**

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-8**

SGS Ref. #: 1096275006

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	18.1 J	ug/Kg

Client Sample ID: **TH2-1**

SGS Ref. #: 1096275008

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	2810	ug/Kg

Client Sample ID: **TH2-2**

SGS Ref. #: 1096275009

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	54.6	mg/Kg
Residual Range Organics	207	mg/Kg

**Polychlorinated Biphenyls**

Aroclor-1260	3180	ug/Kg
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,2,4-Trichlorobenzene	37.2 J	ug/Kg
Tetrachloroethene	69.2	ug/Kg

Client Sample ID: **TH2-4**

SGS Ref. #: 1096275010

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	10700	ug/Kg

Client Sample ID: **TH2-6**

SGS Ref. #: 1096275011

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1016	284	ug/Kg
Aroclor-1260	89700	ug/Kg

Client Sample ID: **TH2-10**

SGS Ref. #: 1096275012

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1016	294	ug/Kg
Aroclor-1260	131000	ug/Kg

Client Sample ID: **TH2-20**

SGS Ref. #: 1096275013

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Aroclor-1260	86.4	ug/Kg



Hoefler Consulting Group

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-1**  
SGS Ref. #: 1096275001  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 95.2

Collection Date/Time: 11/18/09 09:30  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	879	51.8	15.5	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	88	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 17:57  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.821 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275001-A  
Analyst: RTS



Hoefler Consulting Group

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-1**  
SGS Ref. #: 1096275001  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 95.2

Collection Date/Time: 11/18/09 09:30  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	95.2			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275001-A  
Analyst: MPL



Client Sample ID: **TH1-2**  
SGS Ref. #: 1096275002  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 95.6

Collection Date/Time: 11/18/09 09:50  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	364	52.2	15.6	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	81	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 18:09  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.562 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275002-A  
Analyst: RTS





Hoefler Consulting Group

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-2**  
SGS Ref. #: 1096275002  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 95.6

Collection Date/Time: 11/18/09 09:50  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	95.6			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275002-A  
Analyst: MPL



Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	2960	102	31.6	mg/Kg	4	XFC9053	XXX22053	
Residual Range Organics	208	25.4	7.89	mg/Kg	1	XFC9051	XXX22053	
5a Androstane <surr>	142	50-150		%	4	XFC9053	XXX22053	
n-Triacontane-d62 <surr>	60.9	50-150		%	1	XFC9051	XXX22053	

**Batch Information**

Analytical Batch: XFC9051  
Analytical Method: AK103  
Analysis Date/Time: 11/23/09 22:51  
Dilution Factor: 1

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 28.071 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275003-B  
Analyst: KDC

Analytical Batch: XFC9053  
Analytical Method: AK102  
Analysis Date/Time: 11/30/09 20:45  
Dilution Factor: 4

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 28.071 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275003-B  
Analyst: KDC



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	59.0	17.7	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	10900	590	177	ug/Kg	10	XGC6829	XXX22051	
Decachlorobiphenyl <surr>	75	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 18:45  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.701 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275003-B  
Analyst: RTS

Analytical Batch: XGC6829  
Analytical Method: SW8082A  
Analysis Date/Time: 11/28/09 21:22  
Dilution Factor: 10

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.701 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275003-B  
Analyst: RTS



Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	56.2	18.7	ug/Kg	1	VMS11017		
Toluene	ND	187	56.2	ug/Kg	1	VMS11017		
Ethylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
n-Butylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Carbon disulfide	ND	375	116	ug/Kg	1	VMS11017		
1,4-Dichlorobenzene	138	93.6	29.2	ug/Kg	1	VMS11017		
1,2-Dichloroethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,3,5-Trimethylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
4-Chlorotoluene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Chlorobenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
4-Methyl-2-pentanone (MIBK)	ND	936	292	ug/Kg	1	VMS11017		
cis-1,2-Dichloroethene	ND	93.6	29.2	ug/Kg	1	VMS11017		
4-Isopropyltoluene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Methyl-t-butyl ether	ND	150	45.0	ug/Kg	1	VMS11017		
cis-1,3-Dichloropropene	ND	93.6	29.2	ug/Kg	1	VMS11017		
n-Propylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Styrene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Dibromomethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
trans-1,3-Dichloropropene	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,2,4-Trichlorobenzene	12500	1870	562	ug/Kg	10	VMS11019		
1,1,2,2-Tetrachloroethane	ND	187	56.2	ug/Kg	1	VMS11017		
1,2-Dibromo-3-chloropropane	ND	375	116	ug/Kg	1	VMS11017		
Tetrachloroethene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Dibromochloromethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,3-Dichloropropane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,2-Dibromoethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
Carbon tetrachloride	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1,1,2-Tetrachloroethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
Chloroform	ND	93.6	29.2	ug/Kg	1	VMS11017		
Bromobenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Chloromethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,2,3-Trichloropropane	ND	187	56.2	ug/Kg	1	VMS11017		
Bromomethane	ND	749	232	ug/Kg	1	VMS11017		
Bromochloromethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
Vinyl chloride	ND	93.6	45.0	ug/Kg	1	VMS11017		
Dichlorodifluoromethane	ND	187	56.2	ug/Kg	1	VMS11017		



Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	749	232	ug/Kg	1	VMS11017		
sec-Butylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Bromodichloromethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1-Dichloroethene	ND	93.6	29.2	ug/Kg	1	VMS11017		
2-Butanone (MEK)	ND	936	292	ug/Kg	1	VMS11017		
Methylene chloride	ND	375	116	ug/Kg	1	VMS11017		
Trichlorofluoromethane	ND	187	56.2	ug/Kg	1	VMS11017		
P & M -Xylene	ND	187	56.2	ug/Kg	1	VMS11017		
Naphthalene	126 J	187	56.2	ug/Kg	1	VMS11017		
o-Xylene	ND	187	56.2	ug/Kg	1	VMS11017		
Bromoform	ND	93.6	29.2	ug/Kg	1	VMS11017		
Xylenes (total)	ND	375	112	ug/Kg	1	VMS11017		
1,2,4-Trimethylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
tert-Butylbenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1,1-Trichloroethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1-Dichloroethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
2-Chlorotoluene	ND	93.6	29.2	ug/Kg	1	VMS11017		
Trichloroethene	ND	93.6	29.2	ug/Kg	1	VMS11017		
trans-1,2-Dichloroethene	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,2-Dichlorobenzene	ND	93.6	29.2	ug/Kg	1	VMS11017		
2,2-Dichloropropane	ND	93.6	29.2	ug/Kg	1	VMS11017		
Hexachlorobutadiene	ND	187	56.2	ug/Kg	1	VMS11017		
Isopropylbenzene (Cumene)	ND	93.6	29.2	ug/Kg	1	VMS11017		
2-Hexanone	ND	936	292	ug/Kg	1	VMS11017		
1,2-Dichloropropane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1-Dichloropropene	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,1,2-Trichloroethane	ND	93.6	29.2	ug/Kg	1	VMS11017		
1,3-Dichlorobenzene	243	93.6	29.2	ug/Kg	1	VMS11017		
1,2,3-Trichlorobenzene	233	187	56.2	ug/Kg	1	VMS11017		
1,2-Dichloroethane-D4 <surr>	115	69-132		%	1	VMS11017		
Toluene-d8 <surr>	103	84-124		%	1	VMS11017		
4-Bromofluorobenzene <surr>	112	65-144		%	1	VMS11017		



Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
<b>Batch Information</b>								
Analytical Batch: VMS11017							Initial Prep Wt./Vol.: 17.689 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/20/09 22:36							Container ID:1096275003-A	
Dilution Factor: 1							Analyst: DSH	
Analytical Batch: VMS11019							Initial Prep Wt./Vol.: 17.689 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/23/09 19:09							Container ID:1096275003-A	
Dilution Factor: 10							Analyst: DSH	



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-4**  
SGS Ref. #: 1096275003  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 84.0

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	84.0			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275003-B  
Analyst: MPL



Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	2550	90.7	28.1	mg/Kg	4	XFC9053	XXX22053	
Residual Range Organics	223	22.7	7.03	mg/Kg	1	XFC9051	XXX22053	
n-Triacontane-d62 <surr>	63.2	50-150		%	1	XFC9051	XXX22053	
5a Androstane <surr>	130	50-150		%	4	XFC9053	XXX22053	

**Batch Information**

Analytical Batch: XFC9051  
Analytical Method: AK103  
Analysis Date/Time: 11/23/09 23:01  
Dilution Factor: 1

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 30.698 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275004-B  
Analyst: KDC

Analytical Batch: XFC9053  
Analytical Method: AK102  
Analysis Date/Time: 11/30/09 20:55  
Dilution Factor: 4

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 30.698 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275004-B  
Analyst: KDC





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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	56.8	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	10100	568	170	ug/Kg	10	XGC6829	XXX22051	
Decachlorobiphenyl <surrg>	81	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 18:57  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.974 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275004-B  
Analyst: RTS

Analytical Batch: XGC6829  
Analytical Method: SW8082A  
Analysis Date/Time: 11/28/09 21:35  
Dilution Factor: 10

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.974 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275004-B  
Analyst: RTS



Hoefler Consulting Group

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	50.1	16.7	ug/Kg	1	VMS11017		
Toluene	ND	167	50.1	ug/Kg	1	VMS11017		
Ethylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
n-Butylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Carbon disulfide	ND	334	104	ug/Kg	1	VMS11017		
1,4-Dichlorobenzene	261	83.5	26.0	ug/Kg	1	VMS11017		
1,2-Dichloroethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,3,5-Trimethylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
4-Chlorotoluene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Chlorobenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
4-Methyl-2-pentanone (MIBK)	ND	835	260	ug/Kg	1	VMS11017		
cis-1,2-Dichloroethene	ND	83.5	26.0	ug/Kg	1	VMS11017		
4-Isopropyltoluene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Methyl-t-butyl ether	ND	134	40.1	ug/Kg	1	VMS11017		
cis-1,3-Dichloropropene	ND	83.5	26.0	ug/Kg	1	VMS11017		
n-Propylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Styrene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Dibromomethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
trans-1,3-Dichloropropene	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,2,4-Trichlorobenzene	18800	3340	1000	ug/Kg	20	VMS11019		
1,1,2,2-Tetrachloroethane	ND	167	50.1	ug/Kg	1	VMS11017		
1,2-Dibromo-3-chloropropane	ND	334	104	ug/Kg	1	VMS11017		
Tetrachloroethene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Dibromochloromethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,3-Dichloropropane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,2-Dibromoethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
Carbon tetrachloride	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1,1,2-Tetrachloroethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
Chloroform	ND	83.5	26.0	ug/Kg	1	VMS11017		
Bromobenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Chloromethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,2,3-Trichloropropane	ND	167	50.1	ug/Kg	1	VMS11017		
Bromomethane	ND	668	207	ug/Kg	1	VMS11017		
Bromochloromethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
Vinyl chloride	ND	83.5	40.1	ug/Kg	1	VMS11017		
Dichlorodifluoromethane	ND	167	50.1	ug/Kg	1	VMS11017		



Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	668	207	ug/Kg	1	VMS11017		
sec-Butylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Bromodichloromethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1-Dichloroethene	ND	83.5	26.0	ug/Kg	1	VMS11017		
2-Butanone (MEK)	ND	835	260	ug/Kg	1	VMS11017		
Methylene chloride	ND	334	104	ug/Kg	1	VMS11017		
Trichlorofluoromethane	ND	167	50.1	ug/Kg	1	VMS11017		
P & M -Xylene	ND	167	50.1	ug/Kg	1	VMS11017		
Naphthalene	ND	167	50.1	ug/Kg	1	VMS11017		
o-Xylene	ND	167	50.1	ug/Kg	1	VMS11017		
Bromoform	ND	83.5	26.0	ug/Kg	1	VMS11017		
Xylenes (total)	ND	334	100	ug/Kg	1	VMS11017		
1,2,4-Trimethylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
tert-Butylbenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1,1-Trichloroethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1-Dichloroethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
2-Chlorotoluene	ND	83.5	26.0	ug/Kg	1	VMS11017		
Trichloroethene	ND	83.5	26.0	ug/Kg	1	VMS11017		
trans-1,2-Dichloroethene	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,2-Dichlorobenzene	ND	83.5	26.0	ug/Kg	1	VMS11017		
2,2-Dichloropropane	ND	83.5	26.0	ug/Kg	1	VMS11017		
Hexachlorobutadiene	ND	167	50.1	ug/Kg	1	VMS11017		
Isopropylbenzene (Cumene)	ND	83.5	26.0	ug/Kg	1	VMS11017		
2-Hexanone	ND	835	260	ug/Kg	1	VMS11017		
1,2-Dichloropropane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1-Dichloropropene	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,1,2-Trichloroethane	ND	83.5	26.0	ug/Kg	1	VMS11017		
1,3-Dichlorobenzene	478	83.5	26.0	ug/Kg	1	VMS11017		
1,2,3-Trichlorobenzene	223	167	50.1	ug/Kg	1	VMS11017		
1,2-Dichloroethane-D4 <surr>	114	69-132		%	1	VMS11017		
Toluene-d8 <surr>	105	84-124		%	1	VMS11017		
4-Bromofluorobenzene <surr>	140	65-144		%	1	VMS11017		



Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
<b>Batch Information</b>								
Analytical Batch: VMS11017							Initial Prep Wt./Vol.: 19.205 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/20/09 23:10							Container ID:1096275004-A	
Dilution Factor: 1							Analyst: DSH	
Analytical Batch: VMS11019							Initial Prep Wt./Vol.: 19.205 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/23/09 19:36							Container ID:1096275004-A	
Dilution Factor: 20							Analyst: DSH	



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Client Sample ID: **TH1-94**  
SGS Ref. #: 1096275004  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 86.2

Collection Date/Time: 11/18/09 09:55  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	86.2			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275004-B  
Analyst: MPL



Client Sample ID: **TH1-6**  
SGS Ref. #: 1096275005  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 83.4

Collection Date/Time: 11/18/09 10:10  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	1000	59.4	17.8	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	82	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 19:09  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.733 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275005-A  
Analyst: RTS



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Client Sample ID: **TH1-6**  
SGS Ref. #: 1096275005  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 83.4

Collection Date/Time: 11/18/09 10:10  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	83.4			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275005-A  
Analyst: MPL



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Client Sample ID: **TH1-8**  
SGS Ref. #: 1096275006  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 85.2

Collection Date/Time: 11/18/09 10:15  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	18.1 J	58.3	17.5	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	86	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 19:21  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.637 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275006-A  
Analyst: RTS





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Client Sample ID: **TH1-8**  
SGS Ref. #: 1096275006  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 85.2

Collection Date/Time: 11/18/09 10:15  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	85.2			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275006-A  
Analyst: MPL



Client Sample ID: **TH1-20**  
SGS Ref. #: 1096275007  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 74.8

Collection Date/Time: 11/18/09 10:30  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	ND	66.7	20.0	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	81	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 19:58  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.54 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275007-A  
Analyst: RTS



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Client Sample ID: **TH1-20**  
SGS Ref. #: 1096275007  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 74.8

Collection Date/Time: 11/18/09 10:30  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	74.8			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275007-A  
Analyst: MPL



Client Sample ID: **TH2-1**  
 SGS Ref. #: 1096275008  
 Project ID: ML&P Plant 1  
 Matrix: Soil/Solid (dry weight)  
 Percent Solids: 90.8

Collection Date/Time: 11/18/09 13:11  
 Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	54.7	16.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	2810	109	32.8	ug/Kg	2	XGC6829	XXX22051	
Decachlorobiphenyl <surr>	85	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
 Analytical Method: SW8082A  
 Analysis Date/Time: 11/24/09 20:10  
 Dilution Factor: 1

Prep Batch: XXX22051  
 Prep Method: SW3550C  
 Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.657 g  
 Prep Extract Vol.: 5 mL  
 Container ID: 1096275008-A  
 Analyst: RTS

Analytical Batch: XGC6829  
 Analytical Method: SW8082A  
 Analysis Date/Time: 11/28/09 21:47  
 Dilution Factor: 2

Prep Batch: XXX22051  
 Prep Method: SW3550C  
 Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.657 g  
 Prep Extract Vol.: 5 mL  
 Container ID: 1096275008-A  
 Analyst: RTS



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-1**  
SGS Ref. #: 1096275008  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 90.8

Collection Date/Time: 11/18/09 13:11  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	90.8			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275008-A  
Analyst: MPL



Client Sample ID: **TH2-2**  
SGS Ref. #: 1096275009  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20  
Receipt Date/Time: 11/19/09 11:15

**Semivolatile Organic Fuels Department**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	54.6	22.7	7.03	mg/Kg	1	XFC9051	XXX22053	
Residual Range Organics	207	22.7	7.03	mg/Kg	1	XFC9051	XXX22053	
n-Triacontane-d62 <sur>	58	50-150		%	1	XFC9051	XXX22053	
5a Androstane <sur>	84.4	50-150		%	1	XFC9051	XXX22053	

**Batch Information**

Analytical Batch: XFC9051  
Analytical Method: AK102  
Analysis Date/Time: 11/23/09 23:12  
Dilution Factor: 1

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 30.275 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275009-B  
Analyst: KDC

Analytical Batch: XFC9051  
Analytical Method: AK103  
Analysis Date/Time: 11/23/09 23:12  
Dilution Factor: 1

Prep Batch: XXX22053  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 12:30

Initial Prep Wt./Vol.: 30.275 g  
Prep Extract Vol.: 1 mL  
Container ID:1096275009-B  
Analyst: KDC



Client Sample ID: **TH2-2**  
SGS Ref. #: 1096275009  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	3180	113	33.9	ug/Kg	2	XGC6829	XXX22051	
Decachlorobiphenyl <sur>	90	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 20:22  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.747 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275009-B  
Analyst: RTS

Analytical Batch: XGC6829  
Analytical Method: SW8082A  
Analysis Date/Time: 11/28/09 21:59  
Dilution Factor: 2

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.747 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275009-B  
Analyst: RTS



Client Sample ID: **TH2-2**  
SGS Ref. #: 1096275009  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	28.6	9.54	ug/Kg	1	VMS11017		
Toluene	ND	95.4	28.6	ug/Kg	1	VMS11017		
Ethylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
n-Butylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Carbon disulfide	ND	191	59.2	ug/Kg	1	VMS11017		
1,4-Dichlorobenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2-Dichloroethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,3,5-Trimethylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
4-Chlorotoluene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Chlorobenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
4-Methyl-2-pentanone (MIBK)	ND	477	149	ug/Kg	1	VMS11017		
cis-1,2-Dichloroethene	ND	47.7	14.9	ug/Kg	1	VMS11017		
4-Isopropyltoluene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Methyl-t-butyl ether	ND	76.4	22.9	ug/Kg	1	VMS11017		
cis-1,3-Dichloropropene	ND	47.7	14.9	ug/Kg	1	VMS11017		
n-Propylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Styrene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Dibromomethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
trans-1,3-Dichloropropene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2,4-Trichlorobenzene	37.2 J	95.4	28.6	ug/Kg	1	VMS11019		
1,1,2,2-Tetrachloroethane	ND	95.4	28.6	ug/Kg	1	VMS11017		
1,2-Dibromo-3-chloropropane	ND	191	59.2	ug/Kg	1	VMS11017		
Tetrachloroethene	69.2	47.7	14.9	ug/Kg	1	VMS11017		
Dibromochloromethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,3-Dichloropropane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2-Dibromoethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
Carbon tetrachloride	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1,1,2-Tetrachloroethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
Chloroform	ND	47.7	14.9	ug/Kg	1	VMS11017		
Bromobenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2,3-Trichloropropane	ND	95.4	28.6	ug/Kg	1	VMS11017		
Chloromethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
Bromomethane	ND	382	118	ug/Kg	1	VMS11017		
Bromochloromethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
Vinyl chloride	ND	47.7	22.9	ug/Kg	1	VMS11017		
Dichlorodifluoromethane	ND	95.4	28.6	ug/Kg	1	VMS11017		





Client Sample ID: **TH2-2**  
 SGS Ref. #: 1096275009  
 Project ID: ML&P Plant 1  
 Matrix: Soil/Solid (dry weight)  
 Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20  
 Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	382	118	ug/Kg	1	VMS11017		
sec-Butylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Bromodichloromethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1-Dichloroethene	ND	47.7	14.9	ug/Kg	1	VMS11017		
2-Butanone (MEK)	ND	477	149	ug/Kg	1	VMS11017		
Methylene chloride	ND	191	59.2	ug/Kg	1	VMS11017		
Trichlorofluoromethane	ND	95.4	28.6	ug/Kg	1	VMS11017		
P & M -Xylene	ND	95.4	28.6	ug/Kg	1	VMS11017		
Naphthalene	ND	95.4	28.6	ug/Kg	1	VMS11017		
o-Xylene	ND	95.4	28.6	ug/Kg	1	VMS11017		
Bromoform	ND	47.7	14.9	ug/Kg	1	VMS11017		
Xylenes (total)	ND	191	57.3	ug/Kg	1	VMS11017		
1,2,4-Trimethylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
tert-Butylbenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1,1-Trichloroethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1-Dichloroethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
2-Chlorotoluene	ND	47.7	14.9	ug/Kg	1	VMS11017		
Trichloroethene	ND	47.7	14.9	ug/Kg	1	VMS11017		
trans-1,2-Dichloroethene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2-Dichlorobenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
2,2-Dichloropropane	ND	47.7	14.9	ug/Kg	1	VMS11017		
Hexachlorobutadiene	ND	95.4	28.6	ug/Kg	1	VMS11017		
Isopropylbenzene (Cumene)	ND	47.7	14.9	ug/Kg	1	VMS11017		
2-Hexanone	ND	477	149	ug/Kg	1	VMS11017		
1,2-Dichloropropane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1-Dichloropropene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,1,2-Trichloroethane	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,3-Dichlorobenzene	ND	47.7	14.9	ug/Kg	1	VMS11017		
1,2,3-Trichlorobenzene	ND	95.4	28.6	ug/Kg	1	VMS11017		
1,2-Dichloroethane-D4 <surr>	106	69-132		%	1	VMS11017		
Toluene-d8 <surr>	106	84-124		%	1	VMS11017		
4-Bromofluorobenzene <surr>	110	65-144		%	1	VMS11017		



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-2**  
SGS Ref. #: 1096275009  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20  
Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
<b>Batch Information</b>								
Analytical Batch: VMS11017							Initial Prep Wt./Vol.: 35.282 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/20/09 23:44							Container ID:1096275009-A	
Dilution Factor: 1							Analyst: DSH	
<hr/>								
Analytical Batch: VMS11019							Initial Prep Wt./Vol.: 35.282 g	
Analytical Method: SW8260B								
Analysis Date/Time: 11/23/09 18:41							Container ID:1096275009-A	
Dilution Factor: 1							Analyst: DSH	
<hr/>								



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-2**  
SGS Ref. #: 1096275009  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.4

Collection Date/Time: 11/18/09 13:20  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	87.4			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275009-B  
Analyst: MPL



Client Sample ID: **TH2-4**  
 SGS Ref. #: 1096275010  
 Project ID: ML&P Plant 1  
 Matrix: Soil/Solid (dry weight)  
 Percent Solids: 88.0

Collection Date/Time: 11/18/09 13:30  
 Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	55.9	16.8	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	10700	559	168	ug/Kg	10	XGC6829	XXX22051	
Decachlorobiphenyl <surr>	88	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
 Analytical Method: SW8082A  
 Analysis Date/Time: 11/24/09 20:34  
 Dilution Factor: 1

Prep Batch: XXX22051  
 Prep Method: SW3550C  
 Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.894 g  
 Prep Extract Vol.: 5 mL  
 Container ID:1096275010-A  
 Analyst: RTS

Analytical Batch: XGC6829  
 Analytical Method: SW8082A  
 Analysis Date/Time: 11/28/09 22:11  
 Dilution Factor: 10

Prep Batch: XXX22051  
 Prep Method: SW3550C  
 Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.894 g  
 Prep Extract Vol.: 5 mL  
 Container ID:1096275010-A  
 Analyst: RTS



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-4**  
SGS Ref. #: 1096275010  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 88.0

Collection Date/Time: 11/18/09 13:30  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	88.0			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275010-A  
Analyst: MPL



Client Sample ID: **TH2-6**  
SGS Ref. #: 1096275011  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 81.0

Collection Date/Time: 11/18/09 13:40  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	284	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	61.4	18.4	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	89700	3070	920	ug/Kg	50	XGC6829	XXX22051	
Decachlorobiphenyl <surr>	86	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 20:46  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.629 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275011-A  
Analyst: RTS

Analytical Batch: XGC6829  
Analytical Method: SW8082A  
Analysis Date/Time: 11/28/09 22:23  
Dilution Factor: 50

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.629 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275011-A  
Analyst: RTS



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-6**  
SGS Ref. #: 1096275011  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 81.0

Collection Date/Time: 11/18/09 13:40  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	81.0			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275011-A  
Analyst: MPL



Client Sample ID: **TH2-10**  
SGS Ref. #: 1096275012  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.5

Collection Date/Time: 11/18/09 13:50  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	294	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	56.6	17.0	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	131000	5660	1700	ug/Kg	100	XGC6830	XXX22051	
Decachlorobiphenyl <sur>	80	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 20:59  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.73 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275012-A  
Analyst: RTS

Analytical Batch: XGC6830  
Analytical Method: SW8082A  
Analysis Date/Time: 11/29/09 13:11  
Dilution Factor: 100

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.73 g  
Prep Extract Vol.: 5 mL  
Container ID:1096275012-A  
Analyst: RTS





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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-10**  
SGS Ref. #: 1096275012  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 87.5

Collection Date/Time: 11/18/09 13:50  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	87.5			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275012-A  
Analyst: MPL



Client Sample ID: **TH2-20**  
SGS Ref. #: 1096275013  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 74.3

Collection Date/Time: 11/18/09 14:10  
Receipt Date/Time: 11/19/09 11:15

**Polychlorinated Biphenyls**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1221	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1232	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1242	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1248	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1254	ND	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Aroclor-1260	86.4	67.0	20.1	ug/Kg	1	XGC6828	XXX22051	
Decachlorobiphenyl <sur>	86	60-125		%	1	XGC6828	XXX22051	

**Batch Information**

Analytical Batch: XGC6828  
Analytical Method: SW8082A  
Analysis Date/Time: 11/24/09 21:11  
Dilution Factor: 1

Prep Batch: XXX22051  
Prep Method: SW3550C  
Prep Date/Time: 11/23/09 09:00

Initial Prep Wt./Vol.: 22.575 g  
Prep Extract Vol.: 5 mL  
Container ID: 1096275013-A  
Analyst: RTS



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Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TH2-20**  
SGS Ref. #: 1096275013  
Project ID: ML&P Plant 1  
Matrix: Soil/Solid (dry weight)  
Percent Solids: 74.3

Collection Date/Time: 11/18/09 14:10  
Receipt Date/Time: 11/19/09 11:15

**Solids**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Total Solids	74.3			%	1	SPT8063		

**Batch Information**

Analytical Batch: SPT8063  
Analytical Method: SM20 2540G  
Analysis Date/Time: 11/20/09 15:25  
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL  
Container ID:1096275013-A  
Analyst: MPL

Client Sample ID: **TRIP BLANK 9-107**

SGS Ref. #: 1096275014

Project ID: ML&amp;P Plant 1

Matrix: Soil/Solid (dry weight)

Collection Date/Time: 11/18/09 09:00

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	15.0	4.98	ug/Kg	1	VMS11017		
Toluene	ND	49.8	15.0	ug/Kg	1	VMS11017		
Ethylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
n-Butylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Carbon disulfide	ND	99.7	30.9	ug/Kg	1	VMS11017		
1,4-Dichlorobenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2-Dichloroethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,3,5-Trimethylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
4-Chlorotoluene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Chlorobenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
4-Methyl-2-pentanone (MIBK)	ND	249	77.7	ug/Kg	1	VMS11017		
cis-1,2-Dichloroethene	ND	24.9	7.77	ug/Kg	1	VMS11017		
4-Isopropyltoluene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Methyl-t-butyl ether	ND	39.9	12.0	ug/Kg	1	VMS11017		
cis-1,3-Dichloropropene	ND	24.9	7.77	ug/Kg	1	VMS11017		
n-Propylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Styrene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Dibromomethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
trans-1,3-Dichloropropene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2,4-Trichlorobenzene	ND	49.8	15.0	ug/Kg	1	VMS11017		
1,1,2,2-Tetrachloroethane	ND	49.8	15.0	ug/Kg	1	VMS11017		
1,2-Dibromo-3-chloropropane	ND	99.7	30.9	ug/Kg	1	VMS11017		
Tetrachloroethene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Dibromochloromethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,3-Dichloropropane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2-Dibromoethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
Carbon tetrachloride	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1,1,2-Tetrachloroethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
Chloroform	ND	24.9	7.77	ug/Kg	1	VMS11017		
Bromobenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Chloromethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2,3-Trichloropropane	ND	49.8	15.0	ug/Kg	1	VMS11017		
Bromomethane	ND	199	61.8	ug/Kg	1	VMS11017		
Bromochloromethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
Vinyl chloride	ND	24.9	12.0	ug/Kg	1	VMS11017		
Dichlorodifluoromethane	ND	49.8	15.0	ug/Kg	1	VMS11017		

Client Sample ID: **TRIP BLANK 9-107**

SGS Ref. #: 1096275014

Project ID: ML&amp;P Plant 1

Matrix: Soil/Solid (dry weight)

Collection Date/Time: 11/18/09 09:00

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	199	61.8	ug/Kg	1	VMS11017		
sec-Butylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Bromodichloromethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1-Dichloroethene	ND	24.9	7.77	ug/Kg	1	VMS11017		
2-Butanone (MEK)	ND	249	77.7	ug/Kg	1	VMS11017		
Methylene chloride	ND	99.7	30.9	ug/Kg	1	VMS11017		
Trichlorofluoromethane	ND	49.8	15.0	ug/Kg	1	VMS11017		
P & M -Xylene	ND	49.8	15.0	ug/Kg	1	VMS11017		
Naphthalene	ND	49.8	15.0	ug/Kg	1	VMS11017		
o-Xylene	ND	49.8	15.0	ug/Kg	1	VMS11017		
Bromoform	ND	24.9	7.77	ug/Kg	1	VMS11017		
Xylenes (total)	ND	99.7	29.9	ug/Kg	1	VMS11017		
1,2,4-Trimethylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
tert-Butylbenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1,1-Trichloroethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1-Dichloroethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
2-Chlorotoluene	ND	24.9	7.77	ug/Kg	1	VMS11017		
Trichloroethene	ND	24.9	7.77	ug/Kg	1	VMS11017		
trans-1,2-Dichloroethene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2-Dichlorobenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
2,2-Dichloropropane	ND	24.9	7.77	ug/Kg	1	VMS11017		
Hexachlorobutadiene	ND	49.8	15.0	ug/Kg	1	VMS11017		
Isopropylbenzene (Cumene)	ND	24.9	7.77	ug/Kg	1	VMS11017		
2-Hexanone	ND	249	77.7	ug/Kg	1	VMS11017		
1,2-Dichloropropane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1-Dichloropropene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,1,2-Trichloroethane	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,3-Dichlorobenzene	ND	24.9	7.77	ug/Kg	1	VMS11017		
1,2,3-Trichlorobenzene	ND	49.8	15.0	ug/Kg	1	VMS11017		
1,2-Dichloroethane-D4 <surr>	104	69-132		%	1	VMS11017		
Toluene-d8 <surr>	99.9	84-124		%	1	VMS11017		
4-Bromofluorobenzene <surr>	97.8	65-144		%	1	VMS11017		



Hoefler Consulting Group

Print Date: 12/3/2009 4:17 pm

Client Sample ID: **TRIP BLANK 9-107**

SGS Ref. #: 1096275014

Project ID: ML&P Plant 1

Matrix: Soil/Solid (dry weight)

Collection Date/Time: 11/18/09 09:00

Receipt Date/Time: 11/19/09 11:15

**Volatile Gas Chromatography/Mass Spectroscopy**

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
<b>Batch Information</b>								
Analytical Batch: VMS11017						Initial Prep Wt./Vol.: 50.165 g		
Analytical Method: SW8260B								
Analysis Date/Time: 11/20/09 15:17						Container ID:1096275014-A		
Dilution Factor: 1						Analyst: DSH		



SGS Ref.# 940118 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch XXX22051  
Method SW3550C  
Date 11/23/2009

QC results affect the following production samples:

1096275001, 1096275002, 1096275003, 1096275004, 1096275005, 1096275006, 1096275007, 1096275008, 1096275009,  
1096275010, 1096275011, 1096275012, 1096275013

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<b><u>Polychlorinated Biphenyls</u></b>					
Aroclor-1016	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1221	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1232	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1242	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1248	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1254	ND	50.0	15.0	ug/Kg	11/24/09
Aroclor-1260	ND	50.0	15.0	ug/Kg	11/24/09
<b>Surrogates</b>					
Decachlorobiphenyl <surr>	96	60-125		%	11/24/09
Batch	XGC6828				
Method	SW8082A				
Instrument	HP 6890 Series II ECD SV H F				



SGS Ref.# 940162 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1096275003, 1096275004, 1096275009, 1096275014

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy





SGS Ref.# 940162 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**

Benzene	ND	15.0	5.00	ug/Kg	11/20/09
Toluene	ND	50.0	15.0	ug/Kg	11/20/09
Ethylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
n-Butylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
Carbon disulfide	ND	100	31.0	ug/Kg	11/20/09
1,4-Dichlorobenzene	ND	25.0	7.80	ug/Kg	11/20/09
1,2-Dichloroethane	ND	25.0	7.80	ug/Kg	11/20/09
1,3,5-Trimethylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
4-Chlorotoluene	ND	25.0	7.80	ug/Kg	11/20/09
Chlorobenzene	ND	25.0	7.80	ug/Kg	11/20/09
4-Methyl-2-pentanone (MIBK)	ND	250	78.0	ug/Kg	11/20/09
cis-1,2-Dichloroethene	ND	25.0	7.80	ug/Kg	11/20/09
4-Isopropyltoluene	ND	25.0	7.80	ug/Kg	11/20/09
Methyl-t-butyl ether	ND	40.0	12.0	ug/Kg	11/20/09
cis-1,3-Dichloropropene	ND	25.0	7.80	ug/Kg	11/20/09
n-Propylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
Styrene	ND	25.0	7.80	ug/Kg	11/20/09
Dibromomethane	ND	25.0	7.80	ug/Kg	11/20/09
trans-1,3-Dichloropropene	ND	25.0	7.80	ug/Kg	11/20/09
1,2,4-Trichlorobenzene	ND	50.0	15.0	ug/Kg	11/20/09
1,1,2,2-Tetrachloroethane	ND	50.0	15.0	ug/Kg	11/20/09
1,2-Dibromo-3-chloropropane	ND	100	31.0	ug/Kg	11/20/09
Tetrachloroethene	ND	25.0	7.80	ug/Kg	11/20/09
Dibromochloromethane	ND	25.0	7.80	ug/Kg	11/20/09
1,3-Dichloropropane	ND	25.0	7.80	ug/Kg	11/20/09
1,2-Dibromoethane	ND	25.0	7.80	ug/Kg	11/20/09
Carbon tetrachloride	ND	25.0	7.80	ug/Kg	11/20/09
1,1,1,2-Tetrachloroethane	ND	25.0	7.80	ug/Kg	11/20/09
Chloroform	ND	25.0	7.80	ug/Kg	11/20/09
Bromobenzene	ND	25.0	7.80	ug/Kg	11/20/09
Chloromethane	ND	25.0	7.80	ug/Kg	11/20/09
1,2,3-Trichloropropane	ND	50.0	15.0	ug/Kg	11/20/09
Bromomethane	ND	200	62.0	ug/Kg	11/20/09
Bromochloromethane	ND	25.0	7.80	ug/Kg	11/20/09
Vinyl chloride	ND	25.0	12.0	ug/Kg	11/20/09
Dichlorodifluoromethane	ND	50.0	15.0	ug/Kg	11/20/09
Chloroethane	ND	200	62.0	ug/Kg	11/20/09
sec-Butylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
Bromodichloromethane	ND	25.0	7.80	ug/Kg	11/20/09



**SGS Ref.#** 940162 Method Blank  
**Client Name** Hoefler Consulting Group  
**Project Name/#** ML&P Plant 1  
**Matrix** Soil/Solid (dry weight)

**Printed Date/Time** 12/03/2009 16:17  
**Prep Batch Method Date**

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,1-Dichloroethene	ND	25.0	7.80	ug/Kg	11/20/09
2-Butanone (MEK)	ND	250	78.0	ug/Kg	11/20/09
Methylene chloride	ND	100	31.0	ug/Kg	11/20/09
Trichlorofluoromethane	ND	50.0	15.0	ug/Kg	11/20/09
P & M -Xylene	ND	50.0	15.0	ug/Kg	11/20/09
Naphthalene	ND	50.0	15.0	ug/Kg	11/20/09
o-Xylene	ND	50.0	15.0	ug/Kg	11/20/09
Bromoform	ND	25.0	7.80	ug/Kg	11/20/09
Xylenes (total)	ND	100	30.0	ug/Kg	11/20/09
1,2,4-Trimethylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
tert-Butylbenzene	ND	25.0	7.80	ug/Kg	11/20/09
1,1,1-Trichloroethane	ND	25.0	7.80	ug/Kg	11/20/09
1,1-Dichloroethane	ND	25.0	7.80	ug/Kg	11/20/09
2-Chlorotoluene	ND	25.0	7.80	ug/Kg	11/20/09
Trichloroethene	ND	25.0	7.80	ug/Kg	11/20/09
trans-1,2-Dichloroethene	ND	25.0	7.80	ug/Kg	11/20/09
1,2-Dichlorobenzene	ND	25.0	7.80	ug/Kg	11/20/09
2,2-Dichloropropane	ND	25.0	7.80	ug/Kg	11/20/09
Hexachlorobutadiene	ND	50.0	15.0	ug/Kg	11/20/09
Isopropylbenzene (Cumene)	ND	25.0	7.80	ug/Kg	11/20/09
2-Hexanone	ND	250	78.0	ug/Kg	11/20/09
1,2-Dichloropropane	ND	25.0	7.80	ug/Kg	11/20/09
1,1-Dichloropropene	ND	25.0	7.80	ug/Kg	11/20/09
1,1,2-Trichloroethane	ND	25.0	7.80	ug/Kg	11/20/09
1,3-Dichlorobenzene	ND	25.0	7.80	ug/Kg	11/20/09
1,2,3-Trichlorobenzene	ND	50.0	15.0	ug/Kg	11/20/09

**Surrogates**

1,2-Dichloroethane-D4 <surr>	94.5	69-132		%	11/20/09
Toluene-d8 <surr>	99.2	84-124		%	11/20/09
4-Bromofluorobenzene <surr>	94.7	65-144		%	11/20/09

**Batch** VMS11017  
**Method** SW8260B  
**Instrument** HP 5890 Series II MS5 VLA



SGS Ref.# 940171 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch XXX22053  
Method SW3550C  
Date 11/23/2009

QC results affect the following production samples:  
1096275003, 1096275004, 1096275009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<b>Semivolatile Organic Fuels Department</b>					
Diesel Range Organics	ND	20.0	6.20	mg/Kg	11/23/09
<b>Surrogates</b>					
5a Androstane <surr>	90.1	60-120		%	11/23/09
Batch	XFC9051				
Method	AK102				
Instrument	HP 6890 Series II FID SV D R				
Residual Range Organics	ND	20.0	6.20	mg/Kg	11/23/09
<b>Surrogates</b>					
n-Triacontane-d62 <surr>	101	60-120		%	11/23/09
Batch	XFC9051				
Method	AK103				
Instrument	HP 6890 Series II FID SV D R				



SGS Ref.# 940179 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1096275001, 1096275002, 1096275003, 1096275004, 1096275005, 1096275006, 1096275007, 1096275008, 1096275009,  
1096275010, 1096275011, 1096275012, 1096275013

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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**Solids**

Total Solids	100			%	11/20/09
Batch	SPT8063				
Method	SM20 2540G				
Instrument					



SGS Ref.# 940395 Method Blank  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

QC results affect the following production samples:  
1096275003, 1096275004, 1096275009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<b><u>Volatile Gas Chromatography/Mass Spectroscopy</u></b>					
1,2,4-Trichlorobenzene	ND	50.0	15.0	ug/Kg	11/23/09
<b>Surrogates</b>					
1,2-Dichloroethane-D4 <surr>	98.4	69-132		%	11/23/09
Toluene-d8 <surr>	89.6	84-124		%	11/23/09
4-Bromofluorobenzene <surr>	87.4	65-144		%	11/23/09
Batch	VMS11019				
Method	SW8260B				
Instrument	HP 5890 Series II MS5 VLA				



SGS Ref.# 940180 Duplicate  
Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Original 1096275005  
Matrix Soil/Solid (dry weight)

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

QC results affect the following production samples:

1096275001, 1096275002, 1096275003, 1096275004, 1096275005, 1096275006, 1096275007, 1096275008, 1096275009, 1096275010, 1096275011, 1096275012, 1096275013

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
<b>Solids</b>						
Total Solids	83.4	82.8	%	1	(< 15 )	11/20/2009
Batch	SPT8063					
Method	SM20 2540G					
Instrument						



SGS Ref.# 940119 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
 Prep Batch XXX22051  
 Method SW3550C  
 Date 11/23/2009

Client Name Hoefler Consulting Group  
 Project Name/# ML&P Plant 1  
 Matrix Soil/Solid (dry weight)

QC results affect the following production samples:

1096275001, 1096275002, 1096275003, 1096275004, 1096275005, 1096275006, 1096275007, 1096275008, 1096275009, 1096275010,  
 1096275011, 1096275012, 1096275013

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Polychlorinated Biphenyls**

Aroclor-1016	LCS	231	104	( 58-122 )		222 ug/Kg	11/24/2009
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Aroclor-1260	LCS	256	115	( 61-130 )		222 ug/Kg	11/24/2009
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**Surrogates**

Decachlorobiphenyl <surr>	LCS		100	( 60-125 )			11/24/2009
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Batch XGC6828  
 Method SW8082A  
 Instrument HP 6890 Series II ECD SV H F



SGS Ref.# 940163 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
Prep Batch

Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Method  
Date

QC results affect the following production samples:

1096275003, 1096275004, 1096275009, 1096275014

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Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**



SGS Ref.# 940163 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
 Prep Batch Method Date

Client Name Hoefler Consulting Group  
 Project Name/# ML&P Plant 1  
 Matrix Soil/Solid (dry weight)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b><u>Volatile Gas Chromatography/Mass Spectroscopy</u></b>							
Benzene	LCS 724	97	( 81-124 )			750 ug/Kg	11/20/2009
Toluene	LCS 712	95	( 87-119 )			750 ug/Kg	11/20/2009
Ethylbenzene	LCS 761	101	( 87-119 )			750 ug/Kg	11/20/2009
n-Butylbenzene	LCS 764	102	( 82-127 )			750 ug/Kg	11/20/2009
Carbon disulfide	LCS 1040	92	( 58-155 )			1130 ug/Kg	11/20/2009
1,4-Dichlorobenzene	LCS 796	106	( 86-118 )			750 ug/Kg	11/20/2009
1,2-Dichloroethane	LCS 771	103	( 83-121 )			750 ug/Kg	11/20/2009
1,3,5-Trimethylbenzene	LCS 774	103	( 87-120 )			750 ug/Kg	11/20/2009
4-Chlorotoluene	LCS 737	98	( 84-120 )			750 ug/Kg	11/20/2009
Chlorobenzene	LCS 755	101	( 84-121 )			750 ug/Kg	11/20/2009
4-Methyl-2-pentanone (MIBK)	LCS 2160	96	( 67-135 )			2250 ug/Kg	11/20/2009
cis-1,2-Dichloroethene	LCS 796	106	( 82-124 )			750 ug/Kg	11/20/2009
4-Isopropyltoluene	LCS 766	102	( 83-121 )			750 ug/Kg	11/20/2009
Methyl-t-butyl ether	LCS 1160	103	( 76-133 )			1130 ug/Kg	11/20/2009
cis-1,3-Dichloropropene	LCS 741	99	( 82-122 )			750 ug/Kg	11/20/2009
n-Propylbenzene	LCS 771	103	( 82-125 )			750 ug/Kg	11/20/2009
Styrene	LCS 739	99	( 91-120 )			750 ug/Kg	11/20/2009
Dibromomethane	LCS 717	96	( 80-123 )			750 ug/Kg	11/20/2009
trans-1,3-Dichloropropene	LCS 680	91	( 86-122 )			750 ug/Kg	11/20/2009
1,2,4-Trichlorobenzene	LCS 718	96	( 77-126 )			750 ug/Kg	11/20/2009
1,1,2,2-Tetrachloroethane	LCS 678	90	( 80-122 )			750 ug/Kg	11/20/2009

SGS Ref.# 940163 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
 Prep Batch Method Date

Client Name Hoefler Consulting Group  
 Project Name/# ML&P Plant 1  
 Matrix Soil/Solid (dry weight)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b><u>Volatile Gas Chromatography/Mass Spectroscopy</u></b>							
1,2-Dibromo-3-chloropropane	LCS 648	86	( 60-135 )			750 ug/Kg	11/20/2009
Tetrachloroethene	LCS 791	105	( 82-125 )			750 ug/Kg	11/20/2009
Dibromochloromethane	LCS 673	90	( 84-125 )			750 ug/Kg	11/20/2009
1,3-Dichloropropane	LCS 748	100	( 84-123 )			750 ug/Kg	11/20/2009
1,2-Dibromoethane	LCS 762	102	( 85-124 )			750 ug/Kg	11/20/2009
Carbon tetrachloride	LCS 729	97	( 79-128 )			750 ug/Kg	11/20/2009
1,1,1,2-Tetrachloroethane	LCS 766	102	( 77-123 )			750 ug/Kg	11/20/2009
Chloroform	LCS 754	101	( 77-124 )			750 ug/Kg	11/20/2009
Bromobenzene	LCS 756	101	( 86-119 )			750 ug/Kg	11/20/2009
Chloromethane	LCS 664	89	( 54-129 )			750 ug/Kg	11/20/2009
1,2,3-Trichloropropane	LCS 708	94	( 77-125 )			750 ug/Kg	11/20/2009
Bromomethane	LCS 730	97	( 49-141 )			750 ug/Kg	11/20/2009
Bromochloromethane	LCS 775	103	( 79-125 )			750 ug/Kg	11/20/2009
Vinyl chloride	LCS 719	96	( 67-125 )			750 ug/Kg	11/20/2009
Dichlorodifluoromethane	LCS 758	101	( 43-135 )			750 ug/Kg	11/20/2009
Chloroethane	LCS 742	99	( 51-141 )			750 ug/Kg	11/20/2009
sec-Butylbenzene	LCS 748	100	( 84-122 )			750 ug/Kg	11/20/2009
Bromodichloromethane	LCS 732	98	( 81-127 )			750 ug/Kg	11/20/2009
1,1-Dichloroethene	LCS 712	95	( 75-125 )			750 ug/Kg	11/20/2009
2-Butanone (MEK)	LCS 2030	90	( 57-135 )			2250 ug/Kg	11/20/2009

SGS Ref.# 940163 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
 Prep Batch Method Date

Client Name Hoefler Consulting Group  
 Project Name/# ML&P Plant 1  
 Matrix Soil/Solid (dry weight)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b><u>Volatile Gas Chromatography/Mass Spectroscopy</u></b>							
Methylene chloride	LCS 753	100	( 63-137 )			750 ug/Kg	11/20/2009
Trichlorofluoromethane	LCS 805	107	( 64-139 )			750 ug/Kg	11/20/2009
P & M -Xylene	LCS 1470	98	( 88-121 )			1500 ug/Kg	11/20/2009
Naphthalene	LCS 718	96	( 73-131 )			750 ug/Kg	11/20/2009
o-Xylene	LCS 735	98	( 89-120 )			750 ug/Kg	11/20/2009
Bromoform	LCS 680	91	( 72-135 )			750 ug/Kg	11/20/2009
Xylenes (total)	LCS 2200	98	( 89-120 )			2250 ug/Kg	11/20/2009
1,2,4-Trimethylbenzene	LCS 779	104	( 85-121 )			750 ug/Kg	11/20/2009
tert-Butylbenzene	LCS 757	101	( 82-122 )			750 ug/Kg	11/20/2009
1,1,1-Trichloroethane	LCS 717	96	( 77-129 )			750 ug/Kg	11/20/2009
1,1-Dichloroethane	LCS 778	104	( 81-126 )			750 ug/Kg	11/20/2009
2-Chlorotoluene	LCS 760	101	( 81-122 )			750 ug/Kg	11/20/2009
Trichloroethene	LCS 727	97	( 77-124 )			750 ug/Kg	11/20/2009
trans-1,2-Dichloroethene	LCS 768	102	( 79-125 )			750 ug/Kg	11/20/2009
1,2-Dichlorobenzene	LCS 754	100	( 88-113 )			750 ug/Kg	11/20/2009
2,2-Dichloropropane	LCS 781	104	( 69-132 )			750 ug/Kg	11/20/2009
Hexachlorobutadiene	LCS 768	102	( 74-124 )			750 ug/Kg	11/20/2009
Isopropylbenzene (Cumene)	LCS 755	101	( 89-121 )			750 ug/Kg	11/20/2009
2-Hexanone	LCS 2100	93	( 58-145 )			2250 ug/Kg	11/20/2009
1,2-Dichloropropane	LCS 722	96	( 81-120 )			750 ug/Kg	11/20/2009
1,1-Dichloropropene	LCS 775	103	( 76-134 )			750 ug/Kg	11/20/2009

SGS Ref.# 940163 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
 Prep Batch

Client Name Hoefler Consulting Group  
 Project Name/# ML&P Plant 1  
 Matrix Soil/Solid (dry weight)

Method  
 Date

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,1,2-Trichloroethane	LCS	740	99	( 85-121 )		750 ug/Kg	11/20/2009
1,3-Dichlorobenzene	LCS	774	103	( 86-117 )		750 ug/Kg	11/20/2009
1,2,3-Trichlorobenzene	LCS	727	97	( 78-124 )		750 ug/Kg	11/20/2009
<b>Surrogates</b>							
1,2-Dichloroethane-D4 <surr>	LCS		94	( 69-132 )			11/20/2009
Toluene-d8 <surr>	LCS		98	( 84-124 )			11/20/2009
4-Bromofluorobenzene <surr>	LCS		96	( 65-144 )			11/20/2009

Batch VMS11017  
 Method SW8260B  
 Instrument HP 5890 Series II MS5 VLA

**SGS Ref.#** 940172 Lab Control Sample  
 940173 Lab Control Sample Duplicate  
**Client Name** Hoefler Consulting Group  
**Project Name/#** ML&P Plant 1  
**Matrix** Soil/Solid (dry weight)

**Printed Date/Time** 12/03/2009 16:17  
**Prep Batch** XXX22053  
**Method** SW3550C  
**Date** 11/23/2009

QC results affect the following production samples:  
 1096275003, 1096275004, 1096275009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Semivolatile Organic Fuels Department**

Diesel Range Organics	LCS	150	90	( 75-125 )		167 mg/Kg	11/23/2009
	LCSD	148	89		1	(< 20 )	167 mg/Kg 11/23/2009

**Surrogates**

5a Androstane <surr>	LCS		90	( 60-120 )			11/23/2009
	LCSD		89		1		11/23/2009

**Batch** XFC9051  
**Method** AK102  
**Instrument** HP 6890 Series II FID SV D R

Residual Range Organics	LCS	132	79	( 60-120 )		167 mg/Kg	11/23/2009
	LCSD	134	81		2	(< 20 )	167 mg/Kg 11/23/2009

**Surrogates**

n-Triacontane-d62 <surr>	LCS		87	( 60-120 )			11/23/2009
	LCSD		89		1		11/23/2009

**Batch** XFC9051  
**Method** AK103  
**Instrument** HP 6890 Series II FID SV D R



SGS Ref.# 940396 Lab Control Sample

Printed Date/Time 12/03/2009 16:17  
Prep Batch

Client Name Hoefler Consulting Group  
Project Name/# ML&P Plant 1  
Matrix Soil/Solid (dry weight)

Method  
Date

QC results affect the following production samples:

1096275003, 1096275004, 1096275009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,2,4-Trichlorobenzene	LCS	728	97	( 77-126 )		750 ug/Kg	11/23/2009
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**Surrogates**

1,2-Dichloroethane-D4 <surr>	LCS		102	( 69-132 )			11/23/2009
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Toluene-d8 <surr>	LCS		93	( 84-124 )			11/23/2009
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4-Bromofluorobenzene <surr>	LCS		94	( 65-144 )			11/23/2009
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Batch VMS11019  
Method SW8260B  
Instrument HP 5890 Series II MS5 VLA

SGS Ref.# 940120 Matrix Spike  
 940121 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
 Prep Batch XXX22051  
 Method Sonication Extraction Soil SW8  
 Date 11/23/2009

Original 1096275002  
 Matrix Soil/Solid (dry weight)

QC results affect the following production samples:

1096275001, 1096275002, 1096275003, 1096275004, 1096275005, 1096275006, 1096275007, 1096275008, 1096275009,  
 1096275010, 1096275011, 1096275012, 1096275013

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Polychlorinated Biphenyls</b>									
Aroclor-1016	MS	ND	150	65	( 58-122 )			231 ug/Kg	11/24/2009
	MSD		172	74		13	(< 30 )	232 ug/Kg	11/24/2009
Aroclor-1260	MS	364	484	52*	( 61-130 )			231 ug/Kg	11/24/2009
	MSD		536	74		10	(< 30 )	232 ug/Kg	11/24/2009
<b>Surrogates</b>									
Decachlorobiphenyl <surr>	MS		187	81	( 60-125 )				11/24/2009
	MSD		192	83		3			11/24/2009

Batch XGC6828  
 Method SW8082A  
 Instrument HP 6890 Series II ECD SV H F



SGS Ref.#            940165            Matrix Spike  
                         940166            Matrix Spike Duplicate

Printed Date/Time    12/03/2009 16:17  
Prep                    Batch  
                                 Method  
                                 Date

Original                940164  
Matrix                  Solid/Soil (Wet Weight)

QC results affect the following production samples:  
1096275003, 1096275004, 1096275009, 1096275014

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 940165 Matrix Spike  
 940166 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
 Prep Batch  
 Method  
 Date

Original 940164  
 Matrix Solid/Soil (Wet Weight)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Benzene	MS	ND	1190	100	( 81-124 )			1190 ug/Kg	11/20/2009
	MSD		1130	95		6	(< 20 )	1190 ug/Kg	11/20/2009
Toluene	MS	ND	1170	98	( 87-119 )			1190 ug/Kg	11/20/2009
	MSD		1160	97		1	(< 20 )	1190 ug/Kg	11/20/2009
Ethylbenzene	MS	ND	1220	102	( 87-119 )			1190 ug/Kg	11/20/2009
	MSD		1210	101		1	(< 20 )	1190 ug/Kg	11/20/2009
n-Butylbenzene	MS	ND	1200	101	( 82-127 )			1190 ug/Kg	11/20/2009
	MSD		1150	96		5	(< 20 )	1190 ug/Kg	11/20/2009
Carbon disulfide	MS	ND	1930	108	( 58-155 )			1790 ug/Kg	11/20/2009
	MSD		1800	100		7	(< 20 )	1790 ug/Kg	11/20/2009
1,4-Dichlorobenzene	MS	ND	1250	105	( 86-118 )			1190 ug/Kg	11/20/2009
	MSD		1210	102		3	(< 20 )	1190 ug/Kg	11/20/2009
1,2-Dichloroethane	MS	ND	1270	106	( 83-121 )			1190 ug/Kg	11/20/2009
	MSD		1240	104		2	(< 20 )	1190 ug/Kg	11/20/2009
1,3,5-Trimethylbenzene	MS	ND	1250	105	( 87-120 )			1190 ug/Kg	11/20/2009
	MSD		1120	94		11	(< 20 )	1190 ug/Kg	11/20/2009
4-Chlorotoluene	MS	ND	1250	105	( 84-120 )			1190 ug/Kg	11/20/2009
	MSD		1150	97		8	(< 20 )	1190 ug/Kg	11/20/2009
Chlorobenzene	MS	ND	1220	102	( 84-121 )			1190 ug/Kg	11/20/2009
	MSD		1210	101		1	(< 20 )	1190 ug/Kg	11/20/2009
4-Methyl-2-pentanone (MIBK)	MS	ND	3640	102	( 67-135 )			3580 ug/Kg	11/20/2009
	MSD		3790	106		4	(< 20 )	3580 ug/Kg	11/20/2009
cis-1,2-Dichloroethene	MS	ND	1310	110	( 82-124 )			1190 ug/Kg	11/20/2009
	MSD		1230	104		6	(< 20 )	1190 ug/Kg	11/20/2009
4-Isopropyltoluene	MS	ND	1260	105	( 83-121 )			1190 ug/Kg	11/20/2009
	MSD		1170	98		8	(< 20 )	1190 ug/Kg	11/20/2009
Methyl-t-butyl ether	MS	ND	1880	105	( 76-133 )			1790 ug/Kg	11/20/2009
	MSD		1930	108		3	(< 20 )	1790 ug/Kg	11/20/2009
cis-1,3-Dichloropropene	MS	ND	1220	102	( 82-122 )			1190 ug/Kg	11/20/2009
	MSD		1210	101		1	(< 20 )	1190 ug/Kg	11/20/2009
n-Propylbenzene	MS	ND	1240	104	( 82-125 )			1190 ug/Kg	11/20/2009
	MSD		1160	97		7	(< 20 )	1190 ug/Kg	11/20/2009
Styrene	MS	ND	1180	99	( 91-120 )			1190 ug/Kg	11/20/2009
	MSD		1190	100		1	(< 20 )	1190 ug/Kg	11/20/2009
Dibromomethane	MS	ND	1190	100	( 80-123 )			1190 ug/Kg	11/20/2009
	MSD		1160	98		2	(< 20 )	1190 ug/Kg	11/20/2009
trans-1,3-Dichloropropene	MS	ND	1130	95	( 86-122 )			1190 ug/Kg	11/20/2009
	MSD		1100	93		3	(< 20 )	1190 ug/Kg	11/20/2009
1,2,4-Trichlorobenzene	MS	ND	1130	95	( 77-126 )			1190 ug/Kg	11/20/2009
	MSD		1130	95		0	(< 20 )	1190 ug/Kg	11/20/2009

SGS Ref.# 940165 Matrix Spike  
 940166 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
 Prep Batch  
 Method  
 Date

Original 940164  
 Matrix Solid/Soil (Wet Weight)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
1,1,2,2-Tetrachloroethane	MS	ND	1150	96	( 80-122 )			1190 ug/Kg	11/20/2009
	MSD		1150	96		0	(< 20 )	1190 ug/Kg	11/20/2009
1,2-Dibromo-3-chloropropane	MS	ND	1100	92	( 60-135 )			1190 ug/Kg	11/20/2009
	MSD		1110	93		1	(< 20 )	1190 ug/Kg	11/20/2009
Tetrachloroethene	MS	ND	1240	104	( 82-125 )			1190 ug/Kg	11/20/2009
	MSD		1190	100		4	(< 20 )	1190 ug/Kg	11/20/2009
Dibromochloromethane	MS	ND	1090	91	( 84-125 )			1190 ug/Kg	11/20/2009
	MSD		1050	88		3	(< 20 )	1190 ug/Kg	11/20/2009
1,3-Dichloropropane	MS	ND	1210	102	( 84-123 )			1190 ug/Kg	11/20/2009
	MSD		1240	104		2	(< 20 )	1190 ug/Kg	11/20/2009
1,2-Dibromoethane	MS	ND	1240	104	( 85-124 )			1190 ug/Kg	11/20/2009
	MSD		1230	103		1	(< 20 )	1190 ug/Kg	11/20/2009
Carbon tetrachloride	MS	ND	1290	109	( 79-128 )			1190 ug/Kg	11/20/2009
	MSD		1140	96		13	(< 20 )	1190 ug/Kg	11/20/2009
1,1,1,2-Tetrachloroethane	MS	ND	1210	102	( 77-123 )			1190 ug/Kg	11/20/2009
	MSD		1240	104		2	(< 20 )	1190 ug/Kg	11/20/2009
Chloroform	MS	ND	1240	104	( 77-124 )			1190 ug/Kg	11/20/2009
	MSD		1210	101		3	(< 20 )	1190 ug/Kg	11/20/2009
Bromobenzene	MS	ND	1190	100	( 86-119 )			1190 ug/Kg	11/20/2009
	MSD		1150	97		3	(< 20 )	1190 ug/Kg	11/20/2009
Chloromethane	MS	ND	1070	90	( 54-129 )			1190 ug/Kg	11/20/2009
	MSD		1090	91		2	(< 20 )	1190 ug/Kg	11/20/2009
1,2,3-Trichloropropane	MS	ND	1250	105	( 77-125 )			1190 ug/Kg	11/20/2009
	MSD		1150	97		8	(< 20 )	1190 ug/Kg	11/20/2009
Bromomethane	MS	ND	1250	105	( 49-141 )			1190 ug/Kg	11/20/2009
	MSD		1190	100		5	(< 20 )	1190 ug/Kg	11/20/2009
Bromochloromethane	MS	ND	1250	105	( 79-125 )			1190 ug/Kg	11/20/2009
	MSD		1200	101		4	(< 20 )	1190 ug/Kg	11/20/2009
Vinyl chloride	MS	ND	1110	93	( 67-125 )			1190 ug/Kg	11/20/2009
	MSD		1120	94		2	(< 20 )	1190 ug/Kg	11/20/2009
Dichlorodifluoromethane	MS	ND	1180	99	( 43-135 )			1190 ug/Kg	11/20/2009
	MSD		1190	100		2	(< 20 )	1190 ug/Kg	11/20/2009
Chloroethane	MS	ND	1310	110	( 51-141 )			1190 ug/Kg	11/20/2009
	MSD		1290	108		2	(< 20 )	1190 ug/Kg	11/20/2009
sec-Butylbenzene	MS	ND	1220	102	( 84-122 )			1190 ug/Kg	11/20/2009
	MSD		1140	96		7	(< 20 )	1190 ug/Kg	11/20/2009
Bromodichloromethane	MS	ND	1190	100	( 81-127 )			1190 ug/Kg	11/20/2009
	MSD		1180	99		1	(< 20 )	1190 ug/Kg	11/20/2009
1,1-Dichloroethene	MS	ND	1580	133*	( 75-125 )			1190 ug/Kg	11/20/2009
	MSD		1370	115		14	(< 20 )	1190 ug/Kg	11/20/2009

SGS Ref.# 940165 Matrix Spike  
 940166 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
 Prep Batch  
 Method  
 Date

Original 940164  
 Matrix Solid/Soil (Wet Weight)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
2-Butanone (MEK)	MS	ND	3070	86	( 57-135 )			3580 ug/Kg	11/20/2009
	MSD		3200	89		4	(< 20 )	3580 ug/Kg	11/20/2009
Methylene chloride	MS	ND	1210	102	( 63-137 )			1190 ug/Kg	11/20/2009
	MSD		1220	102		1	(< 20 )	1190 ug/Kg	11/20/2009
Trichlorofluoromethane	MS	ND	1350	113	( 64-139 )			1190 ug/Kg	11/20/2009
	MSD		1280	107		5	(< 20 )	1190 ug/Kg	11/20/2009
P & M -Xylene	MS	ND	2380	100	( 88-121 )			2380 ug/Kg	11/20/2009
	MSD		2340	98		2	(< 20 )	2380 ug/Kg	11/20/2009
Naphthalene	MS	ND	1180	99	( 73-131 )			1190 ug/Kg	11/20/2009
	MSD		1220	102		3	(< 20 )	1190 ug/Kg	11/20/2009
o-Xylene	MS	ND	1220	102	( 89-120 )			1190 ug/Kg	11/20/2009
	MSD		1160	97		5	(< 20 )	1190 ug/Kg	11/20/2009
Bromoform	MS	ND	1120	94	( 72-135 )			1190 ug/Kg	11/20/2009
	MSD		1160	97		3	(< 20 )	1190 ug/Kg	11/20/2009
Xylenes (total)	MS	ND	3600	101	( 89-120 )			3580 ug/Kg	11/20/2009
	MSD		3500	98		3	(< 20 )	3580 ug/Kg	11/20/2009
1,2,4-Trimethylbenzene	MS	ND	1230	103	( 85-121 )			1190 ug/Kg	11/20/2009
	MSD		1150	97		6	(< 20 )	1190 ug/Kg	11/20/2009
tert-Butylbenzene	MS	ND	1190	100	( 82-122 )			1190 ug/Kg	11/20/2009
	MSD		1150	97		3	(< 20 )	1190 ug/Kg	11/20/2009
1,1,1-Trichloroethane	MS	ND	1410	118	( 77-129 )			1190 ug/Kg	11/20/2009
	MSD		1320	111		7	(< 20 )	1190 ug/Kg	11/20/2009
1,1-Dichloroethane	MS	ND	1260	106	( 81-126 )			1190 ug/Kg	11/20/2009
	MSD		1230	103		2	(< 20 )	1190 ug/Kg	11/20/2009
2-Chlorotoluene	MS	ND	1250	105	( 81-122 )			1190 ug/Kg	11/20/2009
	MSD		1140	96		9	(< 20 )	1190 ug/Kg	11/20/2009
Trichloroethene	MS	ND	1190	100	( 77-124 )			1190 ug/Kg	11/20/2009
	MSD		1130	95		6	(< 20 )	1190 ug/Kg	11/20/2009
trans-1,2-Dichloroethene	MS	ND	1330	112	( 79-125 )			1190 ug/Kg	11/20/2009
	MSD		1190	100		11	(< 20 )	1190 ug/Kg	11/20/2009
1,2-Dichlorobenzene	MS	ND	1230	104	( 88-113 )			1190 ug/Kg	11/20/2009
	MSD		1200	100		3	(< 20 )	1190 ug/Kg	11/20/2009
2,2-Dichloropropane	MS	ND	1280	108	( 69-132 )			1190 ug/Kg	11/20/2009
	MSD		1200	101		7	(< 20 )	1190 ug/Kg	11/20/2009
Hexachlorobutadiene	MS	ND	1140	96	( 74-124 )			1190 ug/Kg	11/20/2009
	MSD		1110	93		3	(< 20 )	1190 ug/Kg	11/20/2009
Isopropylbenzene (Cumene)	MS	ND	1230	103	( 89-121 )			1190 ug/Kg	11/20/2009
	MSD		1180	99		4	(< 20 )	1190 ug/Kg	11/20/2009
2-Hexanone	MS	ND	3450	96	( 58-145 )			3580 ug/Kg	11/20/2009
	MSD		3630	102		5	(< 20 )	3580 ug/Kg	11/20/2009

SGS Ref.# 940165 Matrix Spike  
 940166 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
 Prep Batch  
 Method  
 Date

Original 940164  
 Matrix Solid/Soil (Wet Weight)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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**Volatile Gas Chromatography/Mass Spectroscopy**

1,2-Dichloropropane	MS	ND	1150	97	( 81-120 )			1190	ug/Kg 11/20/2009
	MSD		1170	98		1	(< 20 )	1190	ug/Kg 11/20/2009
1,1-Dichloropropene	MS	ND	1260	106	( 76-134 )			1190	ug/Kg 11/20/2009
	MSD		1220	103		3	(< 20 )	1190	ug/Kg 11/20/2009
1,1,2-Trichloroethane	MS	ND	1190	100	( 85-121 )			1190	ug/Kg 11/20/2009
	MSD		1230	103		3	(< 20 )	1190	ug/Kg 11/20/2009
1,3-Dichlorobenzene	MS	ND	1230	103	( 86-117 )			1190	ug/Kg 11/20/2009
	MSD		1130	95		8	(< 20 )	1190	ug/Kg 11/20/2009
1,2,3-Trichlorobenzene	MS	ND	1210	102	( 78-124 )			1190	ug/Kg 11/20/2009
	MSD		1240	104		2	(< 20 )	1190	ug/Kg 11/20/2009

**Surrogates**

1,2-Dichloroethane-D4 <surr>	MS		1200	100	( 69-132 )				11/20/2009
	MSD		1160	98		3			11/20/2009
Toluene-d8 <surr>	MS		1220	102	( 84-124 )				11/20/2009
	MSD		1190	100		3			11/20/2009
4-Bromofluorobenzene <surr>	MS		1420	59*	( 65-144 )				11/20/2009
	MSD		1370	56*		4			11/20/2009

Batch VMS11017  
 Method SW8260B  
 Instrument HP 5890 Series II MS5 VLA

SGS Ref.# 940398 Matrix Spike  
940399 Matrix Spike Duplicate

Printed Date/Time 12/03/2009 16:17  
Prep Batch  
Method  
Date

Original 940397  
Matrix Solid/Soil (Wet Weight)

QC results affect the following production samples:  
1096275003, 1096275004, 1096275009

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
1,2,4-Trichlorobenzene	MS	32.5 J	1110	87	( 77-126 )			1250 ug/Kg	11/23/2009
	MSD		1110	87		0 (< 20 )		1250 ug/Kg	11/23/2009
<b>Surrogates</b>									
1,2-Dichloroethane-D4 <surr>	MS		1280	102	( 69-132 )				11/23/2009
	MSD		1200	96		7			11/23/2009
Toluene-d8 <surr>	MS		1140	91	( 84-124 )				11/23/2009
	MSD		1080	87		5			11/23/2009
4-Bromofluorobenzene <surr>	MS		2760	92	( 65-144 )				11/23/2009
	MSD		2520	83		9			11/23/2009

Batch VMS11019  
Method SW8260B  
Instrument HP 5890 Series II MS5 VLA



**SGS North America Inc.**  
**CHAIN OF CUSTODY RECORD**

Locations Nel  
• Alaska  
• New Jersey  
• North Carolina  
• West Virginia  
www.us:1

1096275



72 of 75

1 CLIENT: Hoefler Consulting Group  
 CONTACT: Wendy Mitchell PHONE NO: 503-2196  
 PROJECT: MLP Plant 1 SITE/PWSID#: \_\_\_\_\_  
 REPORTS TO: Wendy Mitchell EMAIL: w.mitchell@hoeflerconsult.com  
 INVOICE TO: Wendy Mitchell QUOTE #: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_

SGS Reference #: \_\_\_\_\_ page 1 of 2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used Analysis Required	DOD Project?	YES	NO	Special Deliverable Requirements:	REMARKS/ LOC ID
1	TH1-1	11-18-09	930	501L	1	G	3	X			NONE	
2	TH1-2		950		1			X				
3	TH1-4		955		2			X				
4	TH1-94		955		2			X				
5	TH1-6		1010		1			X				
6	TH1-8-10-5c		1015		1			X				
7	TH1-20		1030		1			X				
8	TH2-1		1311		1			X				
9	TH2-4-JC TH2-2		1320		2			X				
10	TH2-4-JC TH2-4		1330		2			X				

4 DOD Project? YES  NO   
 Cooler ID: \_\_\_\_\_  
 Cooler Temp °C: \_\_\_\_\_  
 Special Deliverable Requirements: NONE  
 Requested Turnaround Time and/or Special Instructions: Standard  
 Chain of Custody Seal:  INTACT  BROKEN  ABSENT  
 Temperature Blank °C: 58 Therm # 700d  
 or Ambient

Collected/Relinquished By: (1)	Date	Time	Received By:	Time
Relinquished By: (2)	Date	Time	Received By:	Time
Relinquished By: (3)	Date	Time	Received By:	Time
Relinquished By: (4)	Date	Time	Received For Laboratory By:	Time
	<u>11/19/09</u>	<u>1115</u>	<u>[Signature]</u>	





SAMPLE RECEIPT FORM

SGS WO#:

Yes No NA

- Are samples RUSH, priority or w/in 72 hrs of hold time?
If yes, have you done e-mail ALERT notification?
Are samples within 24 hrs. of hold time or due date?
If yes, have you also spoken with supervisor?
Archiving bottles: Are lids marked w/ red "X"?
Were samples collected with proper preservative?
Any problems (ID, cond'n, HT, etc)? Explain:

- If this is for PWS, provide PWSID:
Payment received: \$ by Check or Credit Card
Will courier charges apply?
Data package required? (Level: 1 / 2 / 3 / 4)
Notes:
Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard-or- Rush
Received Date: 11-19-09
Received Time: 1115

Table with 3 columns: Cooler ID, Temperature, Measured w/ (Therm #). Row 1: 1, 5.8 °C, 70d

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carllie
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (✓ if applicable)
Extra Sample Volume?
Limited Sample Volume?
Multi-Incremental Samples?
Lab-filtered for dissolved
Ref Lab required for
Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Form with Yes/No columns and questions: Is received temperature <6°C? Were containers ice-free? Was there an airbill? Was cooler sealed with custody seals? Was there a COC with cooler? Was COC sealed in plastic bag? Was the COC filled out properly? Did the COC indicate USACE / Navy / AFCEE project? Samples were packed to prevent breakage with (circle one): Bubble Wrap Vermiculite Other (specify): Were all samples sealed in separate plastic bags? Were all VOCs free of headspace and/or MeOH preserved? Were correct container / sample sizes submitted? Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted:

Form with questions: Was client notified of problems? Yes / No
By (SGS PM):
Individual contacted:
Via: Phone / Fax / E-mail (circle one)
Date/Time:
Reason for contact:
Change Order Required? Yes / No

Notes:

Completed by (sign): [Signature] (print): JAMES DOUGHERTY

Login proof: Self-check completed [Signature] Peer-reviewer's Initials MD



