

REPORT

**Interim Remedial Measures
Utica Alloys Site No. 633047
Utica, New York**

ELG Utica Alloys

December 2010

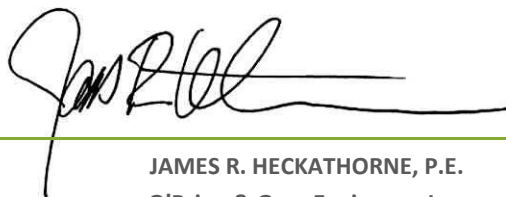


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Interim Remedial Measures

Utica Alloys (Site no. 633047)

Prepared for: ELG Utica Alloys



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1. INTRODUCTION

This is the Interim Remedial Measures (IRM) Report for the Utica Alloys property located in Utica, New York. This report summarizes IRM activities completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Interim Remedial Measures Work Plan, dated September 2007 and subsequent conversations with NYSDEC personnel. The IRM was conducted as part of an Order on Consent, Index Number A6-0001-98-08, dated September 24, 1999 entered into by Utica Alloys Inc, and the NYSDEC.

1.1. BACKGROUND

The Utica Alloys property is located at the corner of Wurz Ave. and Leland Ave. in an industrialized area of the City of Utica, New York as shown on Figure 1. The Utica Alloys facility recycles specialty metal turnings generated off-site by machining operations typically connected with the production of aerospace parts and equipment. The site is approximately 1.5 acres in size with a large building that contains offices, laboratories and recycling machinery. The remainder of the property is used for outside storage of bundled metal turnings pending processing. A site map is provided as Figure 2.

A Remedial Investigation and Interim Remedial Measures Alternative Analysis program was initiated in 1999 by Stearns & Wheler. These activities were conducted in accordance with Consent Order A6-0001-98-08 following discovery of volatile organic compounds (VOCs) and Polychlorinated Biphenyls (PCBs) at the site. Additional investigations were completed in 2005 to further characterize site conditions. The latter evaluation is summarized in the Supplemental Remedial Investigation report (Site # 6-33-047) completed by Stearns & Wheler dated September 2005.

Based on the findings of the investigations, Stearns & Wheler identified three issues of concern including:

- The presence of PCBs in shallow soil exceeding the Recommended Soil Clean Up Objectives (RSCOs) in several areas in the outside storage area of the site (PCB Areas).
- The presence of TCE in soils exceeding RSCOs in the vicinity of the former trichloroethylene (TCE) tank on the west side of the building (TCE Areas).
- The presence of TCE in the ground water at concentrations above the Class GA Ground Water Standard of 5 µg/L, in the vicinity and immediately downgradient (north) of the former TCE tank and TCE Areas.

1.2 IRM OBJECTIVES

The objectives of the IRM were:

1. Remove soil containing PCBs from areas previously identified in the outside storage area of the facility that are in excess of the RSCOs listed in NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046.
2. Remove impacted soil above the water table in the vicinity of the former TCE storage tank containing concentrations of VOCs above RSCOs to the extent possible.
3. Monitor ground water quality in the vicinity of the former TCE storage tank to assess ground water quality changes as a result of the soil removal actions.
4. Collection and analysis of subslab and indoor air samples were added to the IRM program in 2008 as a result of the elevated TCE levels observed in soil adjacent to the building.

1.3. REPORT ORGANIZATION

This report presents the activities and results of the IRM as follows: Section 2 discusses the soil removal activities; Section 3 summarizes the groundwater monitoring results; and Section 4 summarizes the sub-slab and indoor air sampling results.

2. SOIL REMOVAL

2.1. GENERAL

This section presents information regarding field activities, site restoration, and waste characterization associated with the removal of soil containing PCBs and TCE. As previously discussed, seven PCB Areas and three TCE Areas were identified for excavation in the Interim Remedial Measures Alternative Analysis Activities associated with the excavation of soil in these areas are described in the following sections.

The objectives of the soil removal portion of the IRM consisted of the following:

- To the extent possible, remove soil containing polychlorinated biphenyls (PCBs) from seven areas previously identified in the outside storage area of the facility that are in excess of the recommended soil cleanup objectives (RSCOs) listed in NYSDEC Technical and Administrative Guidance Memo (TAGM) #4046.
- To the extent possible, remove soil containing trichloroethene (TCE) above RSCOs from three areas.
- Collect verification samples from each excavation.
- Remove ground water from the larger of the TCE excavation areas.

These activities were conducted between September 2007 and October 2007.

2.2. FIELD ACTIVITIES

PCB Areas

The seven PCB Areas were designated Area A through Area G as shown on Figure 3. PCB-containing soil excavation activities began on September 25, 2007 with excavation of soils outside the storage area on the south side of the facility and concluded with backfilling the excavations on October 10, 2007.

The PCB Areas were excavated to pre-determined limits as defined in the IRM Work Plan. Verification samples were subsequently collected from the centers of the sidewalls and the base of the excavation to evaluate soil quality for establishing final excavation limits. Samples were submitted to Life Science Laboratories, Inc. for analysis of PCBs by USEPA Method 8082. Standard internal laboratory QA/QC procedures were used and the laboratory provided Level 1 (data only) reports with 24 hr to 5 day timeframes, as needed. Analytical results are provided in Appendix A.

Based on verification sample results, additional excavation and subsequent verification sampling was conducted, as needed.

TCE Areas

Three TCE Areas were designated Area 1 through Area 3 as shown on Figure 4. Excavation of soil from the TCE Areas began on September 26, 2007 with excavation of soils from the larger excavation (Area 3) to install a sump and pump to remove ground water, and concluded with backfilling the excavations on October 10, 2007. The pump was operated throughout the duration of the excavation activities. Water removed from the excavation was contained in an on-site fixed axle steel tank.

Soil samples were periodically collected from the excavation sidewalls and screened for VOCs using a PID to guide excavation activities. Subsequent verification samples were generally collected from faces of the sidewalls to evaluate soil quality for identifying excavation limits. Samples were submitted to Life Science Laboratories, Inc. for analysis of VOCs by USEPA Method 8260. Similar to the analyses completed for the PCB Areas, standard internal laboratory QA/QC procedures were used and the laboratory provided Level 1 (data only) reports with 24 hr to 14 day timeframes, as needed. Analytical results are provided in Appendix A.

Based on verification sample results, additional excavation and subsequent verification sampling was conducted, as needed.

2.3. CONSTRUCTION SUMMARY

IRM excavation activities began on September 25, 2007. Excavation activities began with the PCB Areas and then advanced to the TCE Areas while verification samples were analyzed. Excavated soil was stockpiled on-site (Figure 5) and covered with 10-millimeter thick polyethylene plastic. The TCE- and PCB-containing soils were segregated into two separate piles.

PCB Areas

Soil was initially excavated from the identified PCB Areas to the limits presented in the IRM Work Plan. Analytical results from the first set of verification samples collected from the sidewalls and base of the excavation were compared to the RSCOs for PCBs in soil as identified in the IRM Work plan and are provided below. Restricted use soil cleanup objectives (SCOs) for industrial sites as listed by NYSDEC in Table 375-6.8(b) of 6NYCRR Part 375 (December 14, 2006) are also provided for reference:

Depth (ft bgs)	TAGM 4046 RSCOs (mg/kg)	Part 375 Restricted Industrial SCOs (mg/kg)
<1	1	25
>1	10	25

Verification sample results were reviewed with NYSDEC and subsequent additional excavation or completion of excavation was approved by NYSDEC. Based on the discussions with NYSDEC, excavation was continued along the wall or base where exceedances were noted, as appropriate. Table 1 presents a summary of sample results that indicate further excavation was required. The proposed limits and the final excavation limits are presented on Figure 3.

As illustrated on Table 1, one phase of excavation was required in Area E and Area G, two phases of excavation were necessary in Area A, Area B, Area C, and Area D, and three phases of excavation were required in Area F.

Final verification sample results indicate that soils remaining in place did not exceed Part 375 SCOs. However, per IRM Work Plan, post-excavation verification samples were compared to TAGM 4046 RSCOs and indicate that the IRM objectives have been achieved with the exception of the following:

- Analytical results from verification samples in Area A indicated that PCBs exceeded the RSCO of 1 mg/kg for surface soils. The samples were collected at a depth of approximately 0.5 ft. Review of verification sample results from the initial and second phases of excavation indicated that similar slightly elevated concentrations were observed during both phases of excavation and the majority of soil containing the elevated concentrations was removed. Therefore, a decision was made to cease excavating and line the excavation with Mirafi ® fabric prior to backfilling. This course of action was agreed upon by the NYSDEC representative.
- Analytical results from verification samples along the north wall of Area G excavation (0.5 ft bgs) indicated PCBs at 1.07 mg/kg. This concentration of PCBs was only slightly above the RSCO of 1 mg/kg; therefore, a field decision was made to cease excavating and line the excavation with Mirafi ® fabric prior to backfilling. This course of action was agreed upon by the on-site NYSDEC representative.

The final excavation dimensions of each PCB Area excavation are as follows:

Area	Work Plan Excavation Dimensions (Ft)	Final Excavation Dimensions (Ft)
A	10 x 10 x 1	14 x 14 x 1
B	10 x 10 x 4	10 x 10 x 5
C	10 x 10 x 1	14 x 17 x 2.5
D	10 x 10 x 1	14 x 14 x 2
E	10 x 10 x 4	10 x 10 x 4
F	10 x 10 x 1	10 x 10 x 4.25
G	10 x 10 x 1	10 x 10 x 1

In total, 83.2 tons of soil was excavated and removed from the PCB Areas. Activities associated with characterization and disposal of the soil are discussed in Section 2.6

TCE Areas

As noted in Section 2.2, a sump and pump were installed in Area 3 (the larger excavation) to pump ground water to a temporary holding tank. The pump was operated periodically throughout the duration of the project. In total, 6,951 gallons of water was pumped and transferred for off-site disposal. In addition, monitoring well MW-3 was excavated and removed with soils during excavation activities in Area 2.

Soil excavation within the TCE Areas began within the limits identified in the IRM Work Plan. A photoionization detector (PID) was used to screen soils to guide the excavation limits. Samples from the walls of the excavation were also collected evaluate concentrations of VOCs. Analytical results from the verification samples were compared to the RSCOs for chlorinated solvents as identified in the IRM Work plan and are provided below. Restricted use SCOs for industrial sites as listed by NYSDEC in Table 375-6.8(b) of 6NYCRR Part 375 (December 14, 2006) are also provided for reference:

Compound	TAGM 4046 RSCOs (mg/kg)	Part 375 SCOs Restricted Industrial Use (mg/kg)
1,1-dichloroethene	0.4	1000
cis-1,2-dichloroethene	NA	1000
tetrachloroethene	1.4	300
trans-1,2-dichloroethene	0.3	1000
trichloroethene	0.7	400
vinyl chloride	0.2	27

Table 2 presents a summary of the analytical results for samples collected from the sidewalls during excavation. As indicated, along some of the sidewalls additional excavation was completed and another sample was collected for analysis.

As illustrated on Figure 4, soil was excavated beyond the original limits presented in the IRM Work Plan. Analytical results of the verification samples collected from the sidewalls at the final excavation limits are also provided on this figure.

Final verification sample results indicate that soils remaining in place did not exceed Part 375 SCOs. However, per IRM Work Plan, post-excavation verification samples were compared to TAGM 4046 RSCOs and indicate that the IRM objectives have been achieved with the exception of the following:

- Soil exceeding RSCOs for TCE in Area 1 remained in place along the east wall of the excavation.
 - » East wall of the excavation was not extended further to the east, due to the proximity of an underground private electrical conduit and the building edge. The verification sample collected along the eastern wall contained 64 mg/kg of TCE.
- Soil exceeding RSCOs for TCE in Area 2 remained in place along the north, south, and west walls of the excavation.
 - » The north wall of the excavation was not extended further to the north due to the proximity of underground electric utilities and a transformer pad. The verification sample on the North wall exhibited 8.1 mg/kg of TCE.
 - » The south wall of the excavation was not extended further to the south due to the proximity of a natural gas pipeline and the building foundation. The verification sample collected from the South wall contained TCE at a concentration of 4.7 mg/kg.
 - » The west wall of the excavation could not be extended further to the west due to the proximity of fencing and Wurz Ave. The verification sample collected from this wall contained 6.7 mg/kg of TCE.
- Soils exceeding RSCOs for TCE in Area 3 remained in place along the north, south, and west walls of the excavation.
 - » The north wall of the excavation was not extended further north due to the proximity of a natural gas pipeline. The verification sample from this wall exhibited 3.2 mg/kg of TCE.
 - » The south wall of the excavation was not extended further south due to the proximity of a propane tank along the western edge of the building and the temporary steel water tank along the fence line. The verification sample direction contained 75 mg/kg of TCE.
 - » The west wall of the excavation was not extended further west due to the proximity of fencing and Wurz Ave. The verification sample collected along this wall contained 3.2 mg/kg of TCE.

In total, 527.5 tons of soil was excavated and removed from the TCE containing soil Areas. Activities associated with characterization and disposal of the soil are discussed in Section 2.6. Excavation limit coordinates are provided in Appendix B. Copies of field book notes are provided in Appendix C

2.4. AIR MONITORING

Air monitoring was completed during soil excavation activities consistent with the requirements of the New York State Department of Health (NYSDOH) Community Air Monitoring Plan (CAMP) provided as Appendix 1A of DER-10. Air quality was monitored at one upwind and one downwind location with respect to the excavation activities. A dust monitor was used for the PCB excavation while a dust monitor and a PID were used for the TCE excavation areas. Upwind and downwind stations were placed approximately 200 ft from the excavation activities as the operations involved traffic on unpaved areas that created dust. As required in IRM Work Plan, data was recorded and is presented in Appendix D.

2.5. SITE RESTORATION

Upon completing excavations in the PCB and TCE Areas as illustrated on Figure 3 and Figure 4, the excavations were backfilled to original grade using 701 tons of crusher run from Hanson Aggregates in Oriskany Falls, NY.

2.6. WASTE STAGING, CHARACTERIZATION, AND DISPOSAL

Soil

Excavated soils were staged along the southern edge of the property. The soil staging location is illustrated on Figure 5. Soils removed from the TCE Areas and PCB Areas were staged in separate piles. Soil was staged on and covered with 10 millimeter thick polyethylene sheeting. One waste characterization sample was collected from each waste soil pile on September 28, 2007. Samples were submitted to Life Science Laboratories, Inc. for analysis of TCLP VOCs by USEPA Method 8260, TCLP semivolatile organic compounds (SVOCs) by USEPA Method 8270, metals by USEPA Method 6010/7470, ignitability by USEPA Method 1030, pH by USEPA Method 9045, reactive cyanide by USEPA Method SW7.3.3.2, and reactive sulfide by USEPA Method SW7.3.4.2.

Waste characterization analytical results indicated that soil removed from the PCB Areas would require disposal as PCB-containing hazardous waste. Waste characterization analytical results indicated that soil removed from the TCE Areas would require disposal as non PCB-containing hazardous waste.

Between December 18 and December 21, 2007, soils were transported CWM Chemical Services, L.L.C. in Model City, New York for off-site disposal. In total, 83.2 tons of soil was disposed as PCB-containing Waste and 527.5 tons of soil removed from the TCE Areas was disposed as hazardous waste. Waste manifests and profiles are presented in Appendix E.

Water

Water removed from the TCE Area 3 excavation was stored in a temporary tank staged along the western property boundary adjacent to Area 3. One waste characterization sample was collected on October 5, 2007 from the temporary storage tank. Analytical results indicated that the water in the temporary tank would require disposal as a hazardous waste. Analytical results are presented in Appendix A.

On November 16, 2007, 6,951 gallons of water were shipped as hazardous waste to Bridgeport United Recycling in Bridgeport, Connecticut for off-site disposal. Waste manifests are provided in Appendix E.

3. GROUNDWATER MONITORING

3.1 GROUNDWATER MONITORING ACTIVITIES

As outlined in the IRM Work Plan, the objectives of the ground water sampling portion of the IRM consisted of the following:

- Evaluate changes in ground water quality following removal of impacted soil from the source area as documented in the Soil Removal Report (May 2008).
- Evaluate if the existing monitoring network is sufficient to monitor the ground water plume.

According to the IRM Work Plan, groundwater samples were to be collected from the following six monitoring wells: MW-3, MW-4, MW-7, MW-8, MW-9, and MW-B3R. As noted above, well MW-8 was determined to be missing and subsequently replaced with well MW-8R. Well MW-3 was removed during soil excavation activities and two wells were subsequently installed within the area of the TCE-impacted soil removal. As a result, the ground water monitoring network was made up of the following wells: MW-4, MW-7, MW-9, MW-B3R, replacement well MW-8R, and new wells MW-10 and MW-11 that were installed subsequent to the soil excavation activities. Locations of the wells are provided on Figure 2.

Per the IRM Work Plan, groundwater samples were collected on three separate occasions between December 2007 and October 2008. The collected samples were analyzed for VOCs. The results of these activities were submitted to NYSDEC in the Groundwater Monitoring Report dated February 2009. A copy of this document is included as Appendix F. This document includes a discussion of the well installations procedures, groundwater sample collection methods, field data, and a groundwater flow map.

An additional set of groundwater samples was collected from monitoring wells in MW-4, MW-7, MW-9, MW-6, MW-8R, MW-10, and MW-11 between December 15 and 17, 2009. The samples were collected using low flow methods and analyzed for volatile organic compounds (VOCs) and natural attenuation parameters. The purpose of this sampling event was to gather additional information for use in developing the Focused Feasibility Study for the site. The data was submitted to NYSDEC in February 2010. A copy of this report is provided as Appendix G.

3.2 GROUNDWATER MONITORING SUMMARY

Comparison of the historical groundwater data to that collected as part of the IRM indicates that the TCE concentrations in the groundwater in the area where the TCE-containing soil was removed during the IRM have declined. Additionally, the ratio of TCE to breakdown products, cis-1,2-dichloroethene (cDCE) and Vinyl Chloride (VC), at the edges of the TCE-impacted soil removal area suggests that degradation is occurring in these areas. However, concentrations of chlorinated VOCs in groundwater in this area are still above ground water criteria. Further discussions are provided in the report included as Appendix F.

4. SUB-SLAB AND INDOOR AIR

4.1 SAMPLING AND ANALYSIS ACTIVITIES

The sub-slab and indoor air sampling activities were conducted in accordance with a NYSDEC-approved Work Plan dated March 19, 2008. The purpose of the indoor air and sub-slab vapor sampling program was to assess the potential for intrusion of vapors from the soil and groundwater on the western side of the building into the indoor air. As outlined in the Work Plan, the sampling activities were focused on the office area of the building as there is potential for TCE and other solvents to be associated with the material handled in the production areas.

Two sets of sub-slab and indoor air samples were collected from the office area of the facility. The samples were collected using methods and procedures outlined in the New York State Department of Health (NYSDOH) document entitled *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006 as outlined in the Work Plan. The samples were analyzed for VOCs using method TO-15. The report, which includes a discussion of the field methods, sampling logs and materials inventory lists, is included as Appendix H.

4.2 SUB-SLAB AND INDOOR AIR RESULTS

Based on the data collected in March 2008 and the NYSDOH vapor intrusion guidance document, the sub-slab and indoor air concentrations identified for TCE and cDCE are at concentrations where mitigation is recommended. The indoor air concentrations observed are also higher than the indoor air background levels found in commercial and public buildings. However, the indoor air concentrations are well below the OSHA permissible exposure limits (PELs) of 540,000 mg/m³ for TCE and 790,000 mg/m³ for cDCE. A summary table of the data is included in the report contained in Appendix H.

Tables

Table 1
Verification Sample Results
Polychlorinated Biphenyls
Utica Alloys (Site No. 633047)
Utica, NY

Area	Boring ID	Final Excavation Depth (ft)	Action Level ⁽²⁾	Bottom	Sidewall				Completion Action
					North	South	East	West	
Area A	P2	1	1 or 10	2.01 ⁽¹⁾	2.9	2.51	3.22	3.53	Install Mirafi and Backfilled
				NS	1.16	4.26	1.13	3.18	
Area B	P1/P6	5	1 or 10	23.5	1.75	1.02	2.86	2.01	Backfilled
				<0.676 ⁽¹⁾	NS	NS	NS	NS	
Area C	P5	2.5	1 or 10	11.2	4.76	3.72	4.13	9.77	Install Mirafi and Backfilled
				3.4 ⁽¹⁾	5.27 ⁽¹⁾	6.62 ⁽¹⁾	5 ⁽¹⁾	0.675 ⁽¹⁾	
Area D	P7	2	1 or 10	8.46	5.88	17.7	14.3	4.687	Install Mirafi and Backfilled
				3.56 ⁽¹⁾	2.01 ⁽¹⁾	7.54 ⁽¹⁾	3.54 ⁽¹⁾	1.87 ⁽¹⁾	
Area E	P8/P2	4	10	3.8 ⁽¹⁾	1.98 ⁽¹⁾	<0.573 ⁽¹⁾	2.94 ⁽¹⁾	1.11 ⁽¹⁾	Backfilled
Area F	D4	4.25	1 or 10	23.6	<0.520	<0.521	0.618	<0.519	Backfilled
				55.4 ⁽¹⁾	NS	NS	NS	NS	
				<0.728 ⁽¹⁾	NS	NS	NS	NS	
Area G	D8	1	1 or 10	2.12 ⁽¹⁾	1.07	0.691	0.939	<0.548	Backfilled

Notes

⁽¹⁾ - Depth of verification sample greater than 1 ft below ground surface

⁽²⁾ - NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046: Recommended Soil Cleanup Objectives, January 11, 2001
1 mg/kg for soil less than 1 ft below ground surface.
10 mg/kg for soil greater than 1 ft below ground surface.

Units -mg/kg (ppm)

NS - Not Sampled

 - exceeds action level

Table 2
Verification Sample Results
Chlorinated Volatile Organic Compounds
Utica Alloys (Site No. 633047)
Utica, NY

Compounds	Side Wall	Area 1											
		Sample ID	North		South		East			West		Bottom	
		Date	AREA-1-N	AREA-1-N2	AREA-1-S	AREA-1-S2-1.5	AREA-1-E	AREA-1-E2	AREA-1-E3	AREA-1-E4	AREA-1-W	AREA-1-W2	AREA-1-B
		Action Level ⁽¹⁾											
1,1-dichloroethene	0.4	<5.7	<0.0031	<0.38	<0.0027	<0.33	<0.0031	<0.0029	<0.003	<0.0028	<0.003	<0.0031	
cis-1,2-dichloroethene	NA	2.6	0.085	2.3	<0.0027	<0.33	0.34	0.0046	<0.003	0.011	0.0036	0.12	
tetrachloroethene	1.4	<5.7	<0.0031	<0.38	<0.0027	<0.33	<0.0031	<0.0029	<0.003	<0.0028	<0.003	<0.0031	
trans-1,2-dichloroethene	0.3	<5.7	<0.0031	<0.38	<0.0027	<0.33	<0.0031	<0.0029	<0.003	<0.0028	<0.003	<0.0031	
trichloroethene	0.7	350	0.032	170	0.029	5.2	15	64 H	0.062	0.0093	<0.003	0.027	
vinyl chloride	0.2	<6.1	<0.0062	<0.76	<0.0055	<0.66	<0.0062	<0.0059	<0.006	<0.0056	<0.0059	<0.0063	

Compounds	Side Wall	Area 2							
		Sample ID	North		South		East		West
		Date	AREA-2-N	AREA-2-Ext-N	AREA-2-S	AREA-2-Ext-S	AREA-2-E	AREA-2-Ext-E	AREA-2-Ext-W
		Action Level ⁽¹⁾							
1,1-dichloroethene	0.4	<0.0028	<0.0029	<0.0034	0.01	<0.0029	<0.0031	0.0068	
cis-1,2-dichloroethene	NA	<0.0028	0.03	0.034	<0.0032	0.0037	0.69	6.8	
tetrachloroethene	1.4	<0.0028	<0.0029	0.0041	<0.0032	<0.0029	<0.0031	<0.0029	
trans-1,2-dichloroethene	0.3	<0.0028	<0.0029	<0.0034	0.038	<0.0029	0.0093	0.055	
trichloroethene	0.7	0.0044	8.1	3.4 E	4.7 E	0.48	0.41	6.7	
vinyl chloride	0.2	<0.0057	<0.0059	<0.0068	0.017	<0.0059	<0.0062	0.13	

Compounds	Side Wall	Area 3						
		Sample ID	North		South		East	West
		Date	AREA-3-N	AREA-3-Ext-N	AREA-3-S	AREA-3-Ext-S	AREA-3-Ext-E	AREA-3-W
		Action Level ⁽¹⁾						
1,1-dichloroethene	0.4	0.0051	<0.0027	<0.33	<0.003	<0.0033	<0.34	
cis-1,2-dichloroethene	NA	2.7 E	<0.0027	20	0.0095	<0.0033	52	
tetrachloroethene	1.4	<0.0034	<0.0027	<0.33	<0.003	<0.0033	<0.34	
trans-1,2-dichloroethene	0.3	0.033	<0.0027	0.62	<0.003	<0.0033	<0.34	
trichloroethene	0.7	3.2 E	0.0063	75	14	0.65 E	3.2	
vinyl chloride	0.2	0.017	<0.0054	0.95	<0.0061	<0.0066	<0.67	

Notes

⁽¹⁾ - NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046: Recommended Soil Cleanup Objectives, January 11, 2001

Units -mg/kg (ppm)

NA - No Value Available

NS - Not Sampled

E - Value exceeds instrument calibration range

H - Holding time for preparation or analysis exceeded.

- exceeds action level

- interim sample results

Figures

I:\DIV71\Projects\13053 Utica Alloys\GIS\Soil Removal Rpt\Site_Loc_Fig_1.mxd

PLOT DATE: 04/23/08 DIV 071 SMT

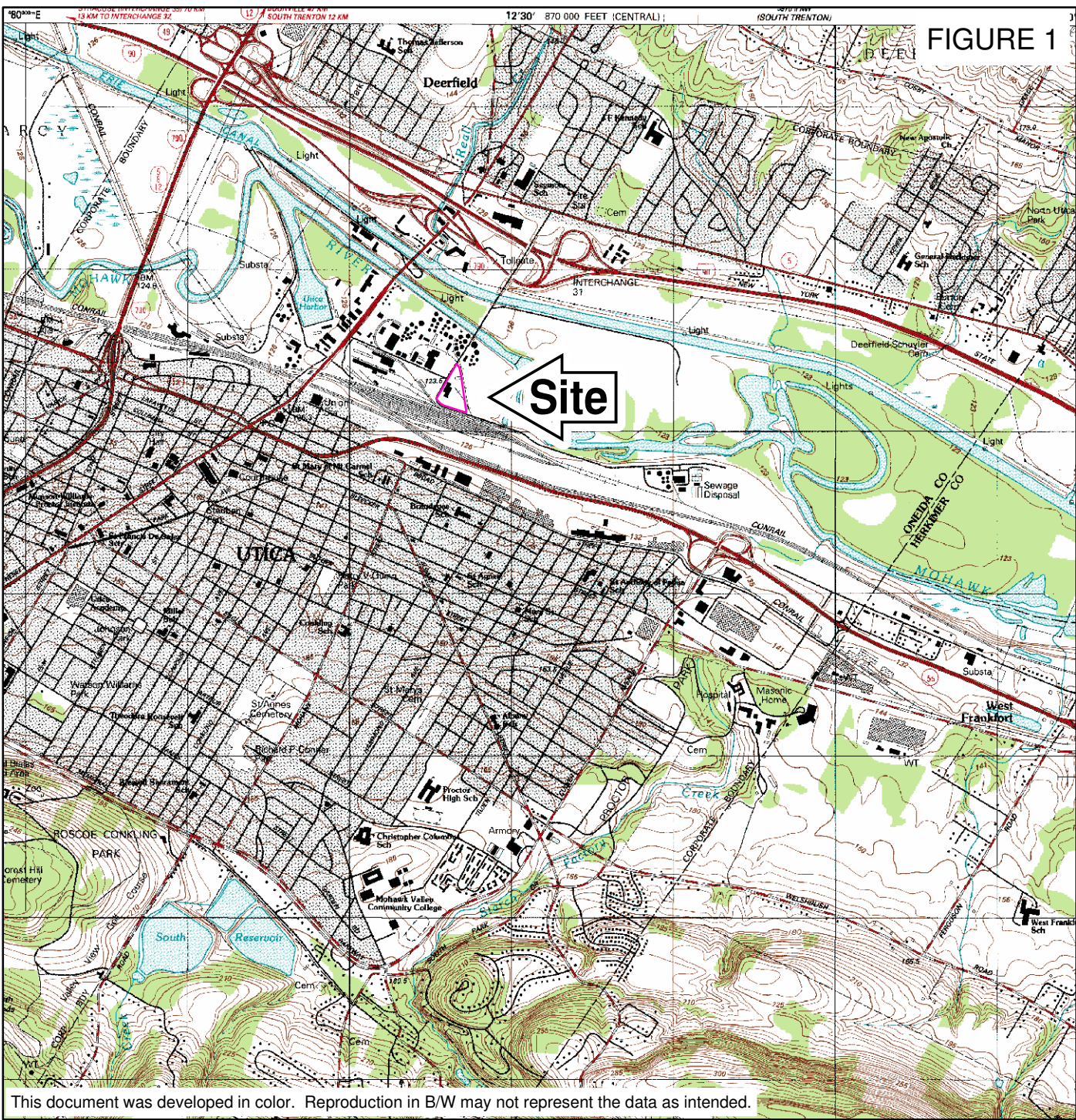
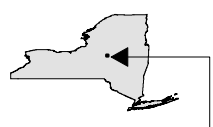


FIGURE 1

This document was developed in color. Reproduction in B/W may not represent the data as intended.



QUADRANGLE LOCATION

UTICA ALLOYS UTICA, NEW YORK

SITE LOCATION

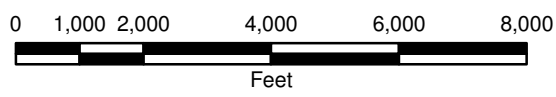


FIGURE 2



LEGEND

SAMPLE LOCATION

- MONITORING WELL
- TEMPORARY WELL
- DESTROYED WELL

BUILDINGS

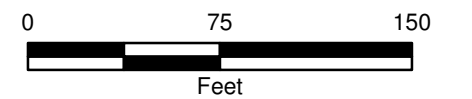
- UTICA ALLOYS
- OTHER STRUCTURES

BASEMAP

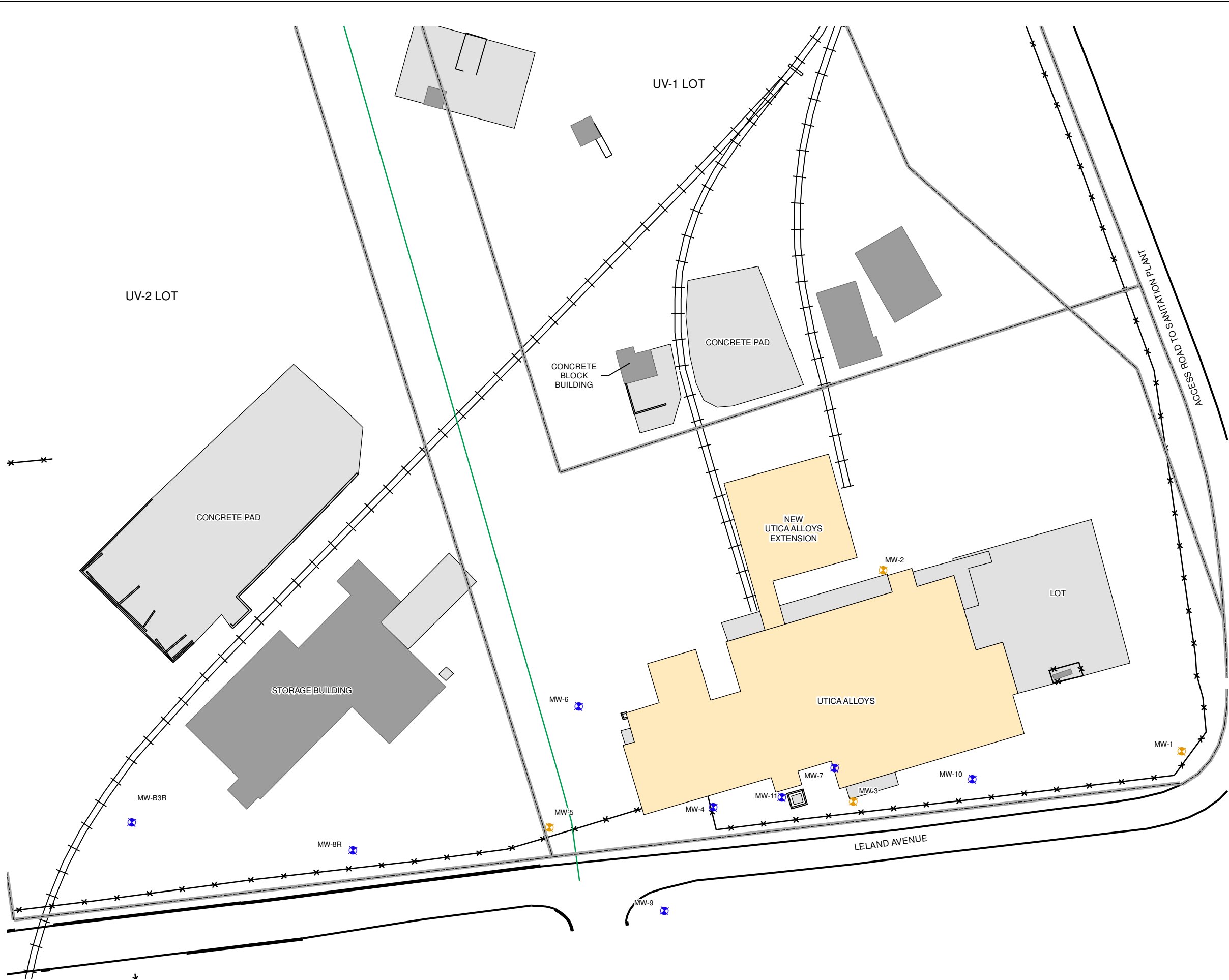
- PROPERTY LINE
- SEWERLINE - APPROXIMATE
- WALL
- ROAD
- CONCRETE

UTICA ALLOYS
INTERIM REMEDIAL MEASURES
UTICA, NEW YORK

SITE PLAN



SEPTEMBER 2010
13053.40931



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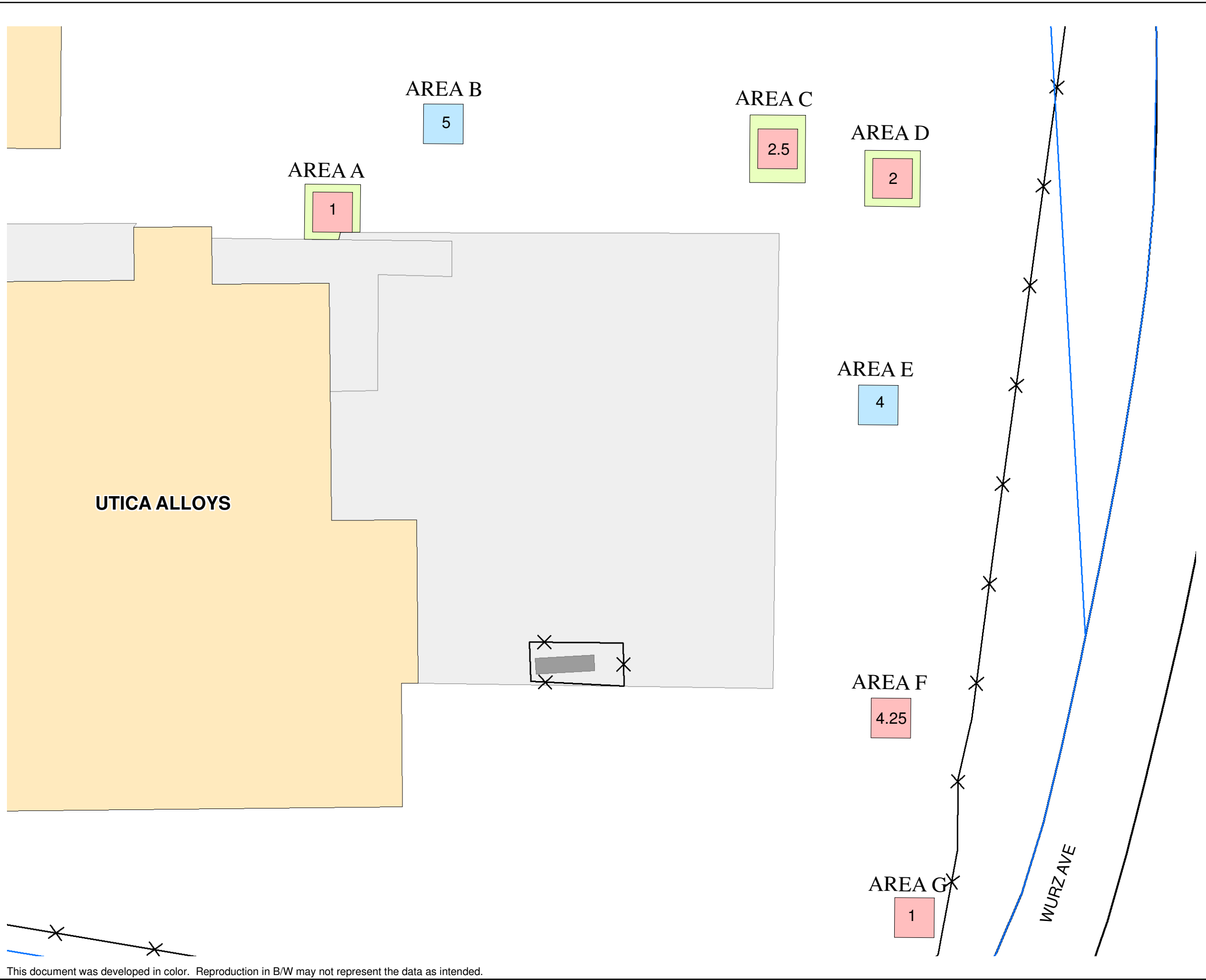


FIGURE 3



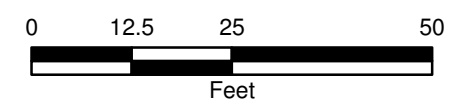
LEGEND

- fences
- water_edge
- ROAD
- railroad
- UTICA ALLOYS
- OTHER STRUCTURES
- CONCRETE
- WORK PLAN LIMITS**
- WORK PLAN DEFINED EXCAVATION LIMIT: 1 FT DEPTH
- WORK PLAN DEFINED EXCAVATION LIMIT: 4 FT DEPTH
- FINAL LIMITS**
- ACTUAL LIMITS OF EXCAVATION

NOTE: NUMBER PRESENTED IN THE EXCAVATION OUTLINE REPRESENTS THE FINAL EXCAVATION DEPTH IN FT

UTICA ALLOYS
INTERIM REMEDIAL MEASURE
UTICA, NEW YORK

**PCB SOIL AREA
EXCAVATION LIMITS**



APRIL 2008
13053/40931



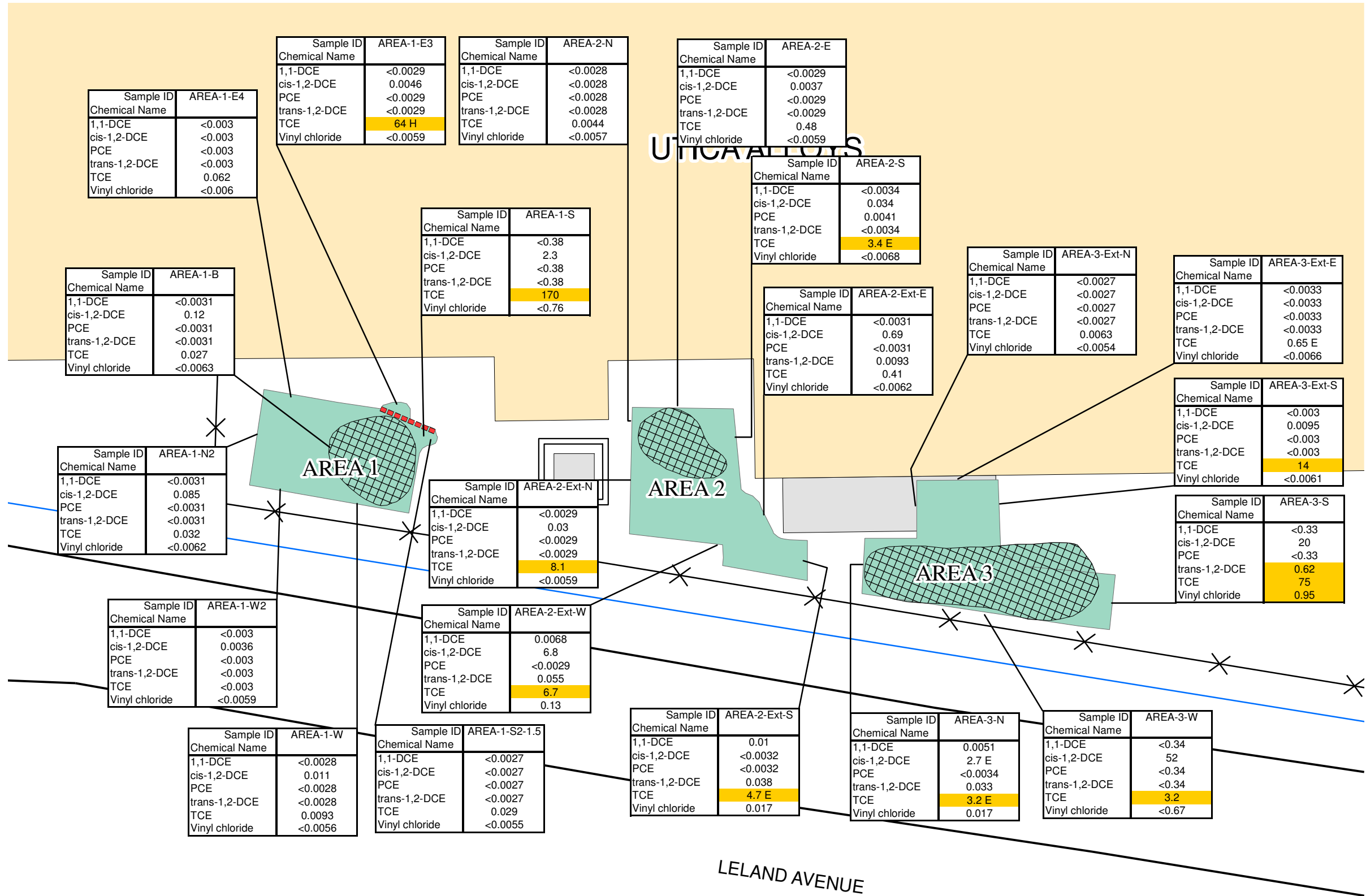
FIGURE 4



LEGEND

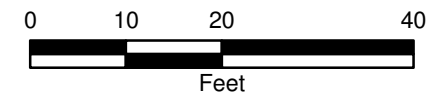
- TCE_AOC_Vertices
- + MONITORING WELL
- ELECTRICAL CONDUIT
- WORK PLAN DEFINED EXCAVATION LIMIT
- ACTUAL LIMITS OF EXCAVATION
- PROPERTY LINE
- x FENCE
- ROAD
- UTICA ALLOYS
- OTHER STRUCTURES
- CONCRETE

NOTE:
 - UNITS IN MG/KG
 - HIGHLIGHTED VALUES EXCEED RSCOs



UTICA ALLOYS
 INTERIM REMEDIAL MEASURES
 UTICA, NEW YORK

TCE SOIL AREA
 EXCAVATION LIMITS

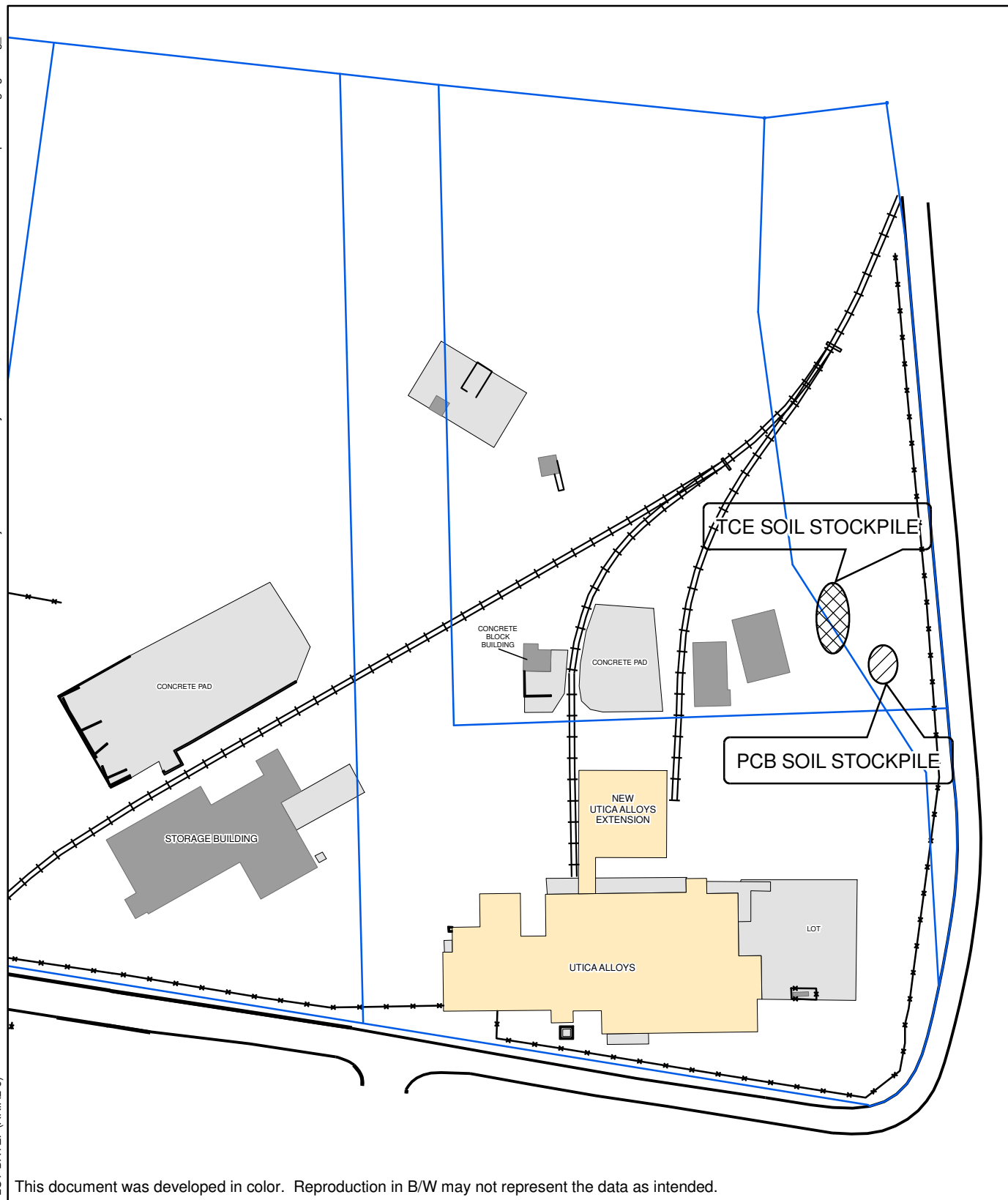


APRIL 2008
 13053.40931



I:\DIV71\Projects\13053.Utica Alloys\40931.IRM-Invest\Doc\DWG\GIS\Soil Removal Rpt\soil staging loc fig_5.mxd

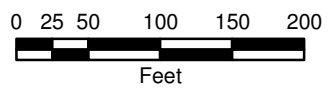
PLOT DATE: (ARIAL 6)



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UTICA ALLOYS
INTERIM REMEDIAL MEASURES
UTICA, NEW YORK

SOIL STOCKPILES



Appendix A
Laboratory Data Sheets



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Monday, October 01, 2007

Deborah Wright
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL: 315-437-6100

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0709144

Dear Deborah Wright:

Life Science Laboratories, Inc. received 35 sample(s) on 9/25/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: D'BRIEN & GERE ENGINEERS						Analysis/Method										
Project: UTICA ALLOY - IRM						PCBs										
Sampled by: ED RAHN																
Client Contact: DEB WRIGHT Phone # 437-6100																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									Comments		
AREA-G-N	9/25/07	0903	SOIL	GRAB	1	X										
AREA-G-E	9/25/07	0908	SOIL	GRAB	1	X										
AREA-G-S	9/25/07	0908	SOIL	GRAB	1	X										
AREA-G-W	9/25/07	0910	SOIL	GRAB	1	X										
AREA-G-B	9/25/07	0912	SOIL	GRAB	1	X										
AREA-F-N	9/25/07	0950	SOIL	GRAB	1	X								P		
AREA-F-E	9/25/07	0953	SOIL	GRAB	1	X								P		
AREA-F-S	9/25/07	0955	SOIL	GRAB	1	X								P		
AREA-F-W	9/25/07	0957	SOIL	GRAB	1	X								P		
AREA-F-B	9/25/07	0959	SOIL	GRAB	1	X								P		
AREA-E-N	9/25/07	1050	SOIL	GRAB	1	X								P		
AREA-E-E	9/25/07	1053	SOIL	GRAB	1	X								P		
Relinquished by: <i>Edwin B. Rahn</i>						Date: 9/25/07		Time: 1615		Received by:			Date:		Time:	
Relinquished by:						Date:		Time:		Received by:			Date:		Time:	
Relinquished by:						Date:		Time:		Received by Lab: <i>[Signature]</i>			Date: 9/25/07		Time: 1615	
Shipment Method:						Airbill Number:										

Turnaround Time Required:
 Routine _____
 Rush (Specify) 24 Hr.
Cooler Temperature: 26.3°C ON ICE



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

2 of 3

Chain of Custody

Client: <i>O'BRIEN & GERE ENGINEERS</i>						Analysis/Method										
Project: <i>UTICA ALLOYS - IRM</i>						<i>PCBs</i>										
Sampled by: <i>ED RAHN</i>																
Client Contact: <i>DEB WRIGHT</i> Phone # <i>437-6100</i>																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers									Comments		
<i>AREA-E-S</i>	<i>9/25/07</i>	<i>1055</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-E-W</i>	<i>9/25/07</i>	<i>1056</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-E-B</i>	<i>9/25/07</i>	<i>1058</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-D-N</i>	<i>9/25/07</i>	<i>1129</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>										
<i>AREA-D-E</i>	<i>9/25/07</i>	<i>1131</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>										
<i>AREA-D-S</i>	<i>9/25/07</i>	<i>1133</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>										
<i>AREA-D-W</i>	<i>9/25/07</i>	<i>1135</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>										
<i>AREA-D-B</i>	<i>9/25/07</i>	<i>1137</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>										
<i>AREA-C-N</i>	<i>9/25/07</i>	<i>1307</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-C-E</i>	<i>9/25/07</i>	<i>1309</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-C-S</i>	<i>9/25/07</i>	<i>1311</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
<i>AREA-C-W</i>	<i>9/25/07</i>	<i>1313</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>								<i>P</i>		
Relinquished by: <i>Edwin B Rahn</i>						Date: <i>9/25/07</i> Time: <i>1615</i>		Received by:			Date:		Time:			
Relinquished by:						Date:		Time:		Received by:			Date:		Time:	
Relinquished by:						Date:		Time:		Received by Lab: <i>[Signature]</i>			Date: <i>9/25/07</i> Time: <i>1615</i>			
Shipment Method:						Airbill Number:										

Turnaround Time Required:
 Routine _____
 Rush (Specify) *24 Hr.*

Comments:

Cooler Temperature: *26.3°C* or ICE

Original - Laboratory
 Copy - Client



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: <i>O'BRIEN & GERE ENGINEERS</i>						Analysis/Method									
Project: <i>UTICA ALLOYS IRM</i>						<i>PCB</i>									
Sampled by: <i>ED RAHN</i>															
Client Contact: <i>DEB WRIGHT</i> Phone # <i>437-6100</i>															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										Comments
<i>AREA - C - B</i>	<i>9/25/07</i>	<i>1314</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - B - N</i>	<i>9/25/07</i>	<i>1343</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - B - E</i>	<i>9/25/07</i>	<i>1346</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - B - S</i>	<i>9/25/07</i>	<i>1346</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - B - W</i>	<i>9/25/07</i>	<i>1348</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - B - B</i>	<i>9/25/07</i>	<i>1350</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									<i>P</i>
<i>AREA - A - N</i>	<i>9/25/07</i>	<i>1421</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									
<i>AREA - A - E</i>	<i>9/25/07</i>	<i>1424</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									
<i>AREA - A - S</i>	<i>9/25/07</i>	<i>1426</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									
<i>AREA - A - W</i>	<i>9/25/07</i>	<i>1428</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									
<i>AREA - A - B</i>	<i>9/25/07</i>	<i>1430</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>									
Relinquished by: <i>Edwin B Rahn</i> Date: <i>9/25/07</i> Time: <i>1615</i>						Received by:						Date:	Time:		
Relinquished by:						Received by:						Date:	Time:		
Relinquished by:						Received by Lab: <i>[Signature]</i>						Date: <i>9/25/07</i>	Time: <i>1615</i>		
Shipment Method:						Airbill Number:									

Turnaround Time Required:
Routine _____
Rush (Specify) *24 Hrs.*

Comments:

Cooler Temperature: *26.3° C ON ICE*

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received:

9/25/2007 4:15:00 PM

Work Order Number **0709144**

Received by: **ads**

Checklist completed by:

Initials

9/25/07

Date

Reviewed by:

Initials

9/25/07

Date

Matrix:

Carrier name: **Hand Delivered**

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 3.9

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-001A

Client Sample ID: Area-F-N

Collection Date: 09/25/07 9:50

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11202

FileID: 1-SAMP-F:\Pksep07\K092607.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1221	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1232	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1242	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1248	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1254	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1260	ND		0.520	mg/Kg-dry	1	09/26/07 18:13
Surr: Tetrachloro-m-xylene	100		44-134	%REC	1	09/26/07 18:13
Surr: Decachlorobiphenyl	92.5		36-141	%REC	1	09/26/07 18:13

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 5.5

Revision: 09/27/07 12:44

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-002A

Client Sample ID: Area-F-E

Collection Date: 09/25/07 9:53

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11202

FileID: 1-SAMP-F:\Pksep07\K092608.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1221	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1232	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1242	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1248	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1254	0.618		0.529	mg/Kg-dry	1	09/26/07 18:44
Aroclor 1260	ND		0.529	mg/Kg-dry	1	09/26/07 18:44
Surr: Tetrachloro-m-xylene	97.0		44-134	%REC	1	09/26/07 18:44
Surr: Decachlorobiphenyl	86.2		36-141	%REC	1	09/26/07 18:44

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0709144
Matrix: SOIL
Inst. ID: GCPK 19K
ColumnID: DB-608
Revision: 09/27/07 12:44
Col Type: Primary

Sample Size: 30 g
%Moisture: 4.0
TestCode 8082S3

Lab ID: 0709144-003A
Client Sample ID: Area-F-S
Collection Date: 09/25/07 9:55
Date Received: 09/25/07 16:15
PrepDate: 09/26/07 8:03
BatchNo: 6233/R11202
FileID: 1-SAMP-F:\Pksep07\K092609.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1221	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1232	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1242	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1248	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1254	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Aroclor 1260	ND		0.521	mg/Kg-dry	1	09/26/07 19:15
Surr: Tetrachloro-m-xylene	104		44-134	%REC	1	09/26/07 19:15
Surr: Decachlorobiphenyl	90.5		36-141	%REC	1	09/26/07 19:15

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 3.7

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-004A

Client Sample ID: Area-F-W

Collection Date: 09/25/07 9:57

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11202

FileID: 1-SAMP-F:\Pksep07\K092610.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1221	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1232	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1242	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1248	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1254	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1260	ND		0.519	mg/Kg-dry	1	09/26/07 19:46
Surr: Tetrachloro-m-xylene	104		44-134	%REC	1	09/26/07 19:46
Surr: Decachlorobiphenyl	92.2		36-141	%REC	1	09/26/07 19:46

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-005A
Project: Utica Alloy- IRM	Client Sample ID: Area-F-B
W Order: 0709144	Collection Date: 09/25/07 9:59
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19K	Sample Size: 30 g
ColumnID: DB-608	%Moisture: 6.9
Revision: 09/27/07 15:23	TestCode: 8082S3
Col Type: Primary	PrepDate: 09/26/07 8:03
	BatchNo: 6233/R11205
	FileID: 1-SAMP-F:\Pksep07\K092704.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1221	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1232	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1242	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1248	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1254	23.6		5.37	mg/Kg-dry	10	09/27/07 13:18
Aroclor 1260	ND		5.37	mg/Kg-dry	10	09/27/07 13:18
Surr: Tetrachloro-m-xylene	98.3		44-134	%REC	10	09/27/07 13:18
Surr: Decachlorobiphenyl	107		36-141	%REC	10	09/27/07 13:18

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-006A
Project: Utica Alloy- IRM	Client Sample ID: Area-E-N
W Order: 0709144	Collection Date: 09/25/07 10:50
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19K Sample Size: 30 g	PrepDate: 09/26/07 8:03
ColumnID: DB-608 %Moisture: 23.5	BatchNo: 6233/R11202
Revision: 09/27/07 12:44 TestCode 8082S3	FileID: I-SAMP-F:\Pksep07\K092612.r
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1221	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1232	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1242	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1248	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1254	1.98		0.654	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1260	ND		0.654	mg/Kg-dry	1	09/26/07 20:48
Surr: Tetrachloro-m-xylene	88.2		44-134	%REC	1	09/26/07 20:48
Surr: Decachlorobiphenyl	70.0		36-141	%REC	1	09/26/07 20:48

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 19.4

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-007A

Client Sample ID: Area-E-E

Collection Date: 09/25/07 10:53

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11202

FileID: 1-SAMP-F:\Pksep07\K092613.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1221	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1232	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1242	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1248	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1254	2.94		0.620	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1260	ND		0.620	mg/Kg-dry	1	09/26/07 21:18
Surr: Tetrachloro-m-xylene	93.7		44-134	%REC	1	09/26/07 21:18
Surr: Decachlorobiphenyl	74.5		36-141	%REC	1	09/26/07 21:18

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-008A
Project: Utica Alloy- IRM	Client Sample ID: Area-E-S
W Order: 0709144	Collection Date: 09/25/07 10:55
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19K	PrepDate: 09/26/07 8:03
ColumnID: DB-608	BatchNo: 6233/R11202
Revision: 09/27/07 12:44	FileID: 1-SAMP-F:\Pksep07\K092614.r
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1221	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1232	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1242	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1248	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1254	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Aroclor 1260	ND		0.573	mg/Kg-dry	1	09/26/07 21:49
Surr: Tetrachloro-m-xylene	105		44-134	%REC	1	09/26/07 21:49
Surr: Decachlorobiphenyl	88.2		36-141	%REC	1	09/26/07 21:49

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 17.4

Revision: 09/27/07 12:50

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-009A

Client Sample ID: Area-E-W

Collection Date: 09/25/07 10:56

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\L092603.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1221	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1232	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1242	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1248	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1254	1.11		0.605	mg/Kg-dry	1	09/26/07 16:09
Aroclor 1260	ND		0.605	mg/Kg-dry	1	09/26/07 16:09
Surr: Tetrachloro-m-xylene	98.0		44-134	%REC	1	09/26/07 16:09
Surr: Decachlorobiphenyl	77.0		36-141	%REC	1	09/26/07 16:09

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 15.1

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-010A

Client Sample ID: Area-E-B

Collection Date: 09/25/07 10:58

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\L092604.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1221	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1232	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1242	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1248	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1254	3.80		0.589	mg/Kg-dry	1	09/26/07 16:40
Aroclor 1260	ND		0.589	mg/Kg-dry	1	09/26/07 16:40
Surr: Tetrachloro-m-xylene	101		44-134	%REC	1	09/26/07 16:40
Surr: Decachlorobiphenyl	79.7		36-141	%REC	1	09/26/07 16:40

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 4.8

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-011A

Client Sample ID: Area-C-N

Collection Date: 09/25/07 13:07

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\092605.rs

Analyte	Result Qual PQL		Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD			SW8082		(SW3550B)
Aroclor 1016	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1221	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1232	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1242	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1248	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1254	4.76	0.525	mg/Kg-dry	1	09/26/07 17:12
Aroclor 1260	ND	0.525	mg/Kg-dry	1	09/26/07 17:12
Surr: Tetrachloro-m-xylene	86.3	44-134	%REC	1	09/26/07 17:12
Surr: Decachlorobiphenyl	71.3	36-141	%REC	1	09/26/07 17:12

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 3.2

Revision: 09/27/07 12:50

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-012A

Client Sample ID: Area-C-E

Collection Date: 09/25/07 13:09

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\L092606.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1221	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1232	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1242	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1248	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1254	4.13		0.517	mg/Kg-dry	1	09/26/07 17:43
Aroclor 1260	ND		0.517	mg/Kg-dry	1	09/26/07 17:43
Surr: Tetrachloro-m-xylene	105		44-134	%REC	1	09/26/07 17:43
Surr: Decachlorobiphenyl	83.7		36-141	%REC	1	09/26/07 17:43

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 5.7

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-013A

Client Sample ID: Area-C-S

Collection Date: 09/25/07 13:11

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\L092607.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1221	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1232	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1242	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1248	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1254	3.72		0.530	mg/Kg-dry	1	09/26/07 18:13
Aroclor 1260	ND		0.530	mg/Kg-dry	1	09/26/07 18:13
Surr: Tetrachloro-m-xylene	92.2		44-134	%REC	1	09/26/07 18:13
Surr: Decachlorobiphenyl	84.5		36-141	%REC	1	09/26/07 18:13

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 5.6

Revision: 09/27/07 15:23

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-014A

Client Sample ID: Area-C-W

Collection Date: 09/25/07 13:13

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11205

FileID: I-SAMP-F:\Pksep07\K092705.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1221	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1232	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1242	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1248	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1254	9.77		1.06	mg/Kg-dry	2	09/27/07 13:51
Aroclor 1260	ND		1.06	mg/Kg-dry	2	09/27/07 13:51
Surr: Tetrachloro-m-xylene	100		44-134	%REC	2	09/27/07 13:51
Surr: Decachlorobiphenyl	101		36-141	%REC	2	09/27/07 13:51

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 14.6

Revision: 09/27/07 15:23

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-015A

Client Sample ID: Area-C-B

Collection Date: 09/25/07 13:14

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11205

FileID: 1-SAMP-F:\Ppksep07\K092706.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1221	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1232	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1242	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1248	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1254	11.2		2.93	mg/Kg-dry	5	09/27/07 14:22
Aroclor 1260	ND		2.93	mg/Kg-dry	5	09/27/07 14:22
Surr: Tetrachloro-m-xylene	84.2		44-134	%REC	5	09/27/07 14:22
Surr: Decachlorobiphenyl	100		36-141	%REC	5	09/27/07 14:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 8.7

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-016A

Client Sample ID: Area-B-N

Collection Date: 09/25/07 13:43

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\LO92610.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1221	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1232	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1242	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1248	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1254	1.75		0.548	mg/Kg-dry	1	09/26/07 19:46
Aroclor 1260	ND		0.548	mg/Kg-dry	1	09/26/07 19:46
Surr: Tetrachloro-m-xylene	105		44-134	%REC	1	09/26/07 19:46
Surr: Decachlorobiphenyl	68.2		36-141	%REC	1	09/26/07 19:46

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 14.7

Revision: 09/27/07 12:50

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-017A

Client Sample ID: Area-B-E

Collection Date: 09/25/07 13:45

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: I-SAMP-F:\Pksep07\L092611.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1221	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1232	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1242	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1248	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1254	2.86		0.586	mg/Kg-dry	1	09/26/07 20:17
Aroclor 1260	ND		0.586	mg/Kg-dry	1	09/26/07 20:17
Surr: Tetrachloro-m-xylene	101		44-134	%REC	1	09/26/07 20:17
Surr: Decachlorobiphenyl	67.7		36-141	%REC	1	09/26/07 20:17

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 11.9

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-018A

Client Sample ID: Area-B-S

Collection Date: 09/25/07 13:46

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:\Pksep07\L092612.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1221	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1232	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1242	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1248	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1254	1.02		0.568	mg/Kg-dry	1	09/26/07 20:48
Aroclor 1260	ND		0.568	mg/Kg-dry	1	09/26/07 20:48
Surr: Tetrachloro-m-xylene	103		44-134	%REC	1	09/26/07 20:48
Surr: Decachlorobiphenyl	72.7		36-141	%REC	1	09/26/07 20:48

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 15.7

Revision: 09/27/07 12:50

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-019A

Client Sample ID: Area-B-W

Collection Date: 09/25/07 13:48

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11203

FileID: 1-SAMP-F:Pksep07\L092613.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1221	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1232	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1242	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1248	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1254	ND		0.593	mg/Kg-dry	1	09/26/07 21:18
Aroclor 1260	2.01		0.593	mg/Kg-dry	1	09/26/07 21:18
Surr: Tetrachloro-m-xylene	102		44-134	%REC	1	09/26/07 21:18
Surr: Decachlorobiphenyl	71.2		36-141	%REC	1	09/26/07 21:18

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 12.9

Revision: 09/27/07 15:23

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-020A

Client Sample ID: Area-B-B

Collection Date: 09/25/07 13:50

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 8:03

BatchNo: 6233/R11205

FileID: 1-SAMP-F:\Pksep07\K092707.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1221	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1232	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1242	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1248	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1254	23.5		5.74	mg/Kg-dry	10	09/27/07 14:52
Aroclor 1260	ND		5.74	mg/Kg-dry	10	09/27/07 14:52
Surr: Tetrachloro-m-xylene	91.7		44-134	%REC	10	09/27/07 14:52
Surr: Decachlorobiphenyl	96.7		36-141	%REC	10	09/27/07 14:52

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 5.8

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-021A

Client Sample ID: Area-G-N

Collection Date: 09/25/07 9:03

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11202

FileID: 1-SAMP-F:\Pksep07\K092621.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1221	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1232	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1242	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1248	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1254	1.07		0.531	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1260	ND		0.531	mg/Kg-dry	1	09/27/07 1:24
Surr: Tetrachloro-m-xylene	95.8		44-134	%REC	1	09/27/07 1:24
Surr: Decachlorobiphenyl	84.7		36-141	%REC	1	09/27/07 1:24

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 6.2

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-022A

Client Sample ID: Area-G-E

Collection Date: 09/25/07 9:06

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11202

FileID: 1-SAMP-F:\Pksep07\K092627.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1221	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1232	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1242	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1248	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1254	0.939		0.533	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1260	ND		0.533	mg/Kg-dry	1	09/27/07 4:29
Surr: Tetrachloro-m-xylene	101		44-134	%REC	1	09/27/07 4:29
Surr: Decachlorobiphenyl	87.8		36-141	%REC	1	09/27/07 4:29

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 5.8

Revision: 09/27/07 12:44

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-023A

Client Sample ID: Area-G-S

Collection Date: 09/25/07 9:08

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11202

FileID: 1-SAMP-F:\Pksep07\K092628.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1221	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1232	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1242	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1248	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1254	0.691		0.531	mg/Kg-dry	1	09/27/07 5:00
Aroclor 1260	ND		0.531	mg/Kg-dry	1	09/27/07 5:00
Surr: Tetrachloro-m-xylene	97.7		44-134	%REC	1	09/27/07 5:00
Surr: Decachlorobiphenyl	80.8		36-141	%REC	1	09/27/07 5:00

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 8.8

Revision: 09/27/07 12:44

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-024A

Client Sample ID: Area-G-W

Collection Date: 09/25/07 9:10

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11202

FileID: 1-SAMP-F:\Pksep07\K092629.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1221	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1232	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1242	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1248	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1254	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Aroclor 1260	ND		0.548	mg/Kg-dry	1	09/27/07 5:31
Surr: Tetrachloro-m-xylene	95.5		44-134	%REC	1	09/27/07 5:31
Surr: Decachlorobiphenyl	80.7		36-141	%REC	1	09/27/07 5:31

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19K

Sample Size: 30 g

ColumnID: DB-608

%Moisture: 10.5

Revision: 09/27/07 12:44

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-025A

Client Sample ID: Area-G-B

Collection Date: 09/25/07 9:12

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11202

FileID: 1-SAMP-F:\Pksep07\K092630.r

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1221	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1232	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1242	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1248	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1254	2.12		0.559	mg/Kg-dry	1	09/27/07 6:02
Aroclor 1260	ND		0.559	mg/Kg-dry	1	09/27/07 6:02
Surr: Tetrachloro-m-xylene	79.7		44-134	%REC	1	09/27/07 6:02
Surr: Decachlorobiphenyl	75.8		36-141	%REC	1	09/27/07 6:02

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-026A
Project: Utica Alloy- IRM	Client Sample ID: Area-D-N
W Order: 0709144	Collection Date: 09/25/07 11:29
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	PrepDate: 09/26/07 14:16
ColumnID: DB-1701	BatchNo: 6237/R11206
Revision: 09/27/07 15:18	FileID: 1-SAMP-F:\Pksep07\L092703.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1221	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1232	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1242	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1248	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1254	5.88		1.06	mg/Kg-dry	2	09/27/07 12:47
Aroclor 1260	ND		1.06	mg/Kg-dry	2	09/27/07 12:47
Surr: Tetrachloro-m-xylene	107		44-134	%REC	2	09/27/07 12:47
Surr: Decachlorobiphenyl	91.3		36-141	%REC	2	09/27/07 12:47

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 8.2

Revision: 09/27/07 15:18

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-027A

Client Sample ID: Area-D-E

Collection Date: 09/25/07 11:31

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11206

FileID: 1-SAMP-F:\Pksep07\L092704.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1221	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1232	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1242	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1248	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1254	14.3		2.72	mg/Kg-dry	5	09/27/07 13:18
Aroclor 1260	ND		2.72	mg/Kg-dry	5	09/27/07 13:18
Surr: Tetrachloro-m-xylene	118		44-134	%REC	5	09/27/07 13:18
Surr: Decachlorobiphenyl	95.8		36-141	%REC	5	09/27/07 13:18

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 10.5

Revision: 09/27/07 15:18

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-028A

Client Sample ID: Area-D-S

Collection Date: 09/25/07 11:33

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11206

FileID: 1-SAMP-F:\Pksep07\LO92705.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1221	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1232	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1242	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1248	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1254	17.7		2.79	mg/Kg-dry	5	09/27/07 13:51
Aroclor 1260	ND		2.79	mg/Kg-dry	5	09/27/07 13:51
Surr: Tetrachloro-m-xylene	112		44-134	%REC	5	09/27/07 13:51
Surr: Decachlorobiphenyl	95.8		36-141	%REC	5	09/27/07 13:51

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-029A
Project: Utica Alloy- IRM	Client Sample ID: Area-D-W
W Order: 0709144	Collection Date: 09/25/07 11:35
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	Sample Size: 30 g
ColumnID: DB-1701	%Moisture: 4.7
Revision: 09/27/07 12:50	TestCode: 8082S3
Col Type: Primary	PrepDate: 09/26/07 14:16
	BatchNo: 6237/R11203
	FileID: 1-SAMP-F:\Pksep07\L092618.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1221	ND		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1232	ND		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1242	0.787		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1248	ND		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1254	3.90		0.525	mg/Kg-dry	1	09/26/07 23:52
Aroclor 1260	ND		0.525	mg/Kg-dry	1	09/26/07 23:52
Surr: Tetrachloro-m-xylene	88.2		44-134	%REC	1	09/26/07 23:52
Surr: Decachlorobiphenyl	68.8		36-141	%REC	1	09/26/07 23:52

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 6.9

Revision: 09/27/07 15:18

TestCode 8082S3

Col Type: Primary

Lab ID: 0709144-030A

Client Sample ID: Area-D-B

Collection Date: 09/25/07 11:37

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11206

FileID: 1-SAMP-F:\Pksep07\L092706.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1221	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1232	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1242	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1248	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1254	8.46		1.07	mg/Kg-dry	2	09/27/07 14:22
Aroclor 1260	ND		1.07	mg/Kg-dry	2	09/27/07 14:22
Surr: Tetrachloro-m-xylene	105		44-134	%REC	2	09/27/07 14:22
Surr: Decachlorobiphenyl	102		36-141	%REC	2	09/27/07 14:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-031A
Project: Utica Alloy- IRM	Client Sample ID: Area-A-N
W Order: 0709144	Collection Date: 09/25/07 14:21
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	PrepDate: 09/26/07 14:16
ColumnID: DB-1701	BatchNo: 6237/R11203
Revision: 09/27/07 12:50	FileID: 1-SAMP-F:\Pksep07\L092620.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1221	ND		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1232	ND		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1242	1.23		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1248	ND		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1254	1.67		0.516	mg/Kg-dry	1	09/27/07 0:54
Aroclor 1260	ND		0.516	mg/Kg-dry	1	09/27/07 0:54
Surr: Tetrachloro-m-xylene	95.8		44-134	%REC	1	09/27/07 0:54
Surr: Decachlorobiphenyl	75.7		36-141	%REC	1	09/27/07 0:54

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709144

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 4.2

Revision: 09/27/07 12:50

TestCode: 8082S3

Col Type: Primary

Lab ID: 0709144-032A

Client Sample ID: Area-A-E

Collection Date: 09/25/07 14:24

Date Received: 09/25/07 16:15

PrepDate: 09/26/07 14:16

BatchNo: 6237/R11203

FileID: 1-SAMP-F:\Pksep07\L092621.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1221	ND		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1232	ND		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1242	1.03		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1248	ND		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1254	2.19		0.522	mg/Kg-dry	1	09/27/07 1:24
Aroclor 1260	ND		0.522	mg/Kg-dry	1	09/27/07 1:24
Surr: Tetrachloro-m-xylene	88.5		44-134	%REC	1	09/27/07 1:24
Surr: Decachlorobiphenyl	68.7		36-141	%REC	1	09/27/07 1:24

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-033A
Project: Utica Alloy- IRM	Client Sample ID: Area-A-S
W Order: 0709144	Collection Date: 09/25/07 14:26
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	PrepDate: 09/26/07 14:16
ColumnID: DB-1701	BatchNo: 6237/R11203
Revision: 09/27/07 12:50	FileID: 1-SAMP-F:\Pksep07\L092625.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1221	ND		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1232	ND		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1242	1.22		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1248	ND		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1254	1.29		0.549	mg/Kg-dry	1	09/27/07 3:28
Aroclor 1260	ND		0.549	mg/Kg-dry	1	09/27/07 3:28
Surr: Tetrachloro-m-xylene	90.2		44-134	%REC	1	09/27/07 3:28
Surr: Decachlorobiphenyl	73.7		36-141	%REC	1	09/27/07 3:28

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-034A
Project: Utica Alloy- IRM	Client Sample ID: Area-A-W
W Order: 0709144	Collection Date: 09/25/07 14:28
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	PrepDate: 09/26/07 14:16
ColumnID: DB-1701	BatchNo: 6237/R11203
Revision: 09/27/07 12:50	FileID: 1-SAMP-F:\Pksep07\L092626.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1221	ND		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1232	ND		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1242	1.61		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1248	ND		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1254	1.92		0.524	mg/Kg-dry	1	09/27/07 3:58
Aroclor 1260	ND		0.524	mg/Kg-dry	1	09/27/07 3:58
Surr: Tetrachloro-m-xylene	90.5		44-134	%REC	1	09/27/07 3:58
Surr: Decachlorobiphenyl	86.5		36-141	%REC	1	09/27/07 3:58

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0709144-035A
Project: Utica Alloy- IRM	Client Sample ID: Area-A-B
W Order: 0709144	Collection Date: 09/25/07 14:30
Matrix: SOIL	Date Received: 09/25/07 16:15
Inst. ID: GCPK 19L	PrepDate: 09/26/07 14:16
ColumnID: DB-1701	BatchNo: 6237/R11203
Revision: 09/27/07 12:50	FileID: 1-SAMP-F:\Pksep07\L092627.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1221	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1232	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1242	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1248	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1254	2.01		0.531	mg/Kg-dry	1	09/27/07 4:29
Aroclor 1260	ND		0.531	mg/Kg-dry	1	09/27/07 4:29
Surr: Tetrachloro-m-xylene	89.2		44-134	%REC	1	09/27/07 4:29
Surr: Decachlorobiphenyl	65.5		36-141	%REC	1	09/27/07 4:29

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 28-Sep-07

CLIENT: O'Brien & Gere Engineers, Inc.
 Lab Order: 0709144
 Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-F-N	0709144-001A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	3.90
Area-F-E	0709144-002A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	5.50
Area-F-S	0709144-003A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	4.00
Area-F-W	0709144-004A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	3.70
Area-F-B	0709144-005A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	6.90
Area-E-N	0709144-006A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	23.5
Area-E-E	0709144-007A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	19.4
Area-E-S	0709144-008A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	12.7
Area-E-W	0709144-009A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	17.4
Area-E-B	0709144-010A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	15.1
Area-C-N	0709144-011A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	4.80
Area-C-E	0709144-012A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	3.20
Area-C-S	0709144-013A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	5.70
Area-C-W	0709144-014A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	5.60
Area-C-B	0709144-015A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	14.6
Area-B-N	0709144-016A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	8.70
Area-B-E	0709144-017A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	14.7
Area-B-S	0709144-018A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	11.9
Area-B-W	0709144-019A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	15.7
Area-B-B	0709144-020A	wt%	9/25/2007	9/25/2007	9/26/2007	R11193	12.9
Area-G-N	0709144-021A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	5.80
Area-G-E	0709144-022A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	6.20
Area-G-S	0709144-023A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	5.80
Area-G-W	0709144-024A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	8.80
Area-G-B	0709144-025A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	10.5
Area-D-N	0709144-026A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	5.70
Area-D-E	0709144-027A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	8.20
Area-D-S	0709144-028A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	10.5
Area-D-W	0709144-029A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	4.70
Area-D-B	0709144-030A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	6.90
Area-A-N	0709144-031A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	3.10

Life Science Laboratories, Inc.

Date: 28-Sep-07

CLIENT: O'Brien & Gere Engineers, Inc.
Lab Order: 0709144
Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-A-E	0709144-032A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	4.20
Area-A-S	0709144-033A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	8.90
Area-A-W	0709144-034A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	4.60
Area-A-B	0709144-035A	wt%	9/25/2007	9/25/2007	9/26/2007	R11195	5.80



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
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Tuesday, October 02, 2007

Deborah Wright
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL: 315-437-6100

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0709172

Dear Deborah Wright:

Life Science Laboratories, Inc. received 4 sample(s) on 9/27/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0709172
Matrix: SOIL
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/01/07 11:48
Col Type:

Sample Size: 5 g
%Moisture: 18.5
TestCode: 8260SM OLM42

Lab ID: 0709172-001A
Client Sample ID: Area-3-W
Collection Date: 09/27/07 14:35
Date Received: 09/27/07 16:35
PrepDate: 09/28/07 10:00
BatchNo: 6258/R11248
FileID: 1-SAMP-T0584.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		670	µg/Kg-dry	1	09/29/07 16:58
Chloromethane	ND		670	µg/Kg-dry	1	09/29/07 16:58
Vinyl chloride	ND		670	µg/Kg-dry	1	09/29/07 16:58
Bromomethane	ND		670	µg/Kg-dry	1	09/29/07 16:58
Chloroethane	ND		670	µg/Kg-dry	1	09/29/07 16:58
Trichlorofluoromethane	ND		670	µg/Kg-dry	1	09/29/07 16:58
1,1-Dichloroethene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Acetone	ND		1300	µg/Kg-dry	1	09/29/07 16:58
Carbon disulfide	ND		340	µg/Kg-dry	1	09/29/07 16:58
Methyl acetate	ND		340	µg/Kg-dry	1	09/29/07 16:58
Methylene chloride	ND		670	µg/Kg-dry	1	09/29/07 16:58
trans-1,2-Dichloroethene	ND		340	µg/Kg-dry	1	09/29/07 16:58
Methyl tert-butyl ether	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,1-Dichloroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
cis-1,2-Dichloroethene	29000	E	340	µg/Kg-dry	1	09/29/07 16:58
2-Butanone	ND		1300	µg/Kg-dry	1	09/29/07 16:58
Chloroform	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,1,1-Trichloroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Cyclohexane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Carbon tetrachloride	ND		340	µg/Kg-dry	1	09/29/07 16:58
Benzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,2-Dichloroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Trichloroethene	3200		340	µg/Kg-dry	1	09/29/07 16:58
Methylcyclohexane	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,2-Dichloropropane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Bromodichloromethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
cis-1,3-Dichloropropene	ND		340	µg/Kg-dry	1	09/29/07 16:58
4-Methyl-2-pentanone	ND		670	µg/Kg-dry	1	09/29/07 16:58
Toluene	ND		340	µg/Kg-dry	1	09/29/07 16:58
trans-1,3-Dichloropropene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,1,2-Trichloroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Tetrachloroethene	ND		340	µg/Kg-dry	1	09/29/07 16:58
2-Hexanone	ND		670	µg/Kg-dry	1	09/29/07 16:58

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0709172
Matrix: SOIL
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/01/07 11:48
Col Type:

Sample Size: 5 g
%Moisture: 18.5
TestCode 8260SM OLM42

Lab ID: 0709172-001A
Client Sample ID: Area-3-W
Collection Date: 09/27/07 14:35
Date Received: 09/27/07 16:35
PrepDate: 09/28/07 10:00
BatchNo: 6258/R11248
FileID: 1-SAMP-T0584.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,2-Dibromoethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
Chlorobenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
Ethylbenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
Xylenes (total)	ND		670	µg/Kg-dry	1	09/29/07 16:58
Styrene	ND		340	µg/Kg-dry	1	09/29/07 16:58
Bromoform	ND		340	µg/Kg-dry	1	09/29/07 16:58
Isopropylbenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,1,2,2-Tetrachloroethane	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,3-Dichlorobenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,4-Dichlorobenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,2-Dichlorobenzene	ND		340	µg/Kg-dry	1	09/29/07 16:58
1,2-Dibromo-3-chloropropane	ND		670	µg/Kg-dry	1	09/29/07 16:58
1,2,4-Trichlorobenzene	ND		670	µg/Kg-dry	1	09/29/07 16:58
Surr: Dibromofluoromethane	70.4		40-156	%REC	1	09/29/07 16:58
Surr: 1,2-Dichloroethane-d4	89.3		71-128	%REC	1	09/29/07 16:58
Surr: Toluene-d8	72.6 S		75-125	%REC	1	09/29/07 16:58
Surr: 4-Bromofluorobenzene	71.3		59-125	%REC	1	09/29/07 16:58

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:50

Col Type:

Sample Size: 5 g

%Moisture: 18.5

TestCode 8260SM OLM42

Lab ID: 0709172-001ADL

Client Sample ID: Area-3-W

Collection Date: 09/27/07 14:35

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-DL-T0602.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Chloromethane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Vinyl chloride	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Bromomethane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Chloroethane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Trichlorofluoromethane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
1,1-Dichloroethene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Acetone	ND		2700	µg/Kg-dry	2	09/30/07 18:01
Carbon disulfide	ND		670	µg/Kg-dry	2	09/30/07 18:01
Methyl acetate	ND		670	µg/Kg-dry	2	09/30/07 18:01
Methylene chloride	ND		1300	µg/Kg-dry	2	09/30/07 18:01
trans-1,2-Dichloroethene	ND		670	µg/Kg-dry	2	09/30/07 18:01
Methyl tert-butyl ether	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,1-Dichloroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
cis-1,2-Dichloroethene	52000		670	µg/Kg-dry	2	09/30/07 18:01
2-Butanone	ND		2700	µg/Kg-dry	2	09/30/07 18:01
Chloroform	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,1,1-Trichloroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Cyclohexane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Carbon tetrachloride	ND		670	µg/Kg-dry	2	09/30/07 18:01
Benzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,2-Dichloroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Trichloroethene	8300		670	µg/Kg-dry	2	09/30/07 18:01
Methylcyclohexane	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,2-Dichloropropane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Bromodichloromethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
cis-1,3-Dichloropropene	ND		670	µg/Kg-dry	2	09/30/07 18:01
4-Methyl-2-pentanone	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Toluene	ND		670	µg/Kg-dry	2	09/30/07 18:01
trans-1,3-Dichloropropene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,1,2-Trichloroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Tetrachloroethene	ND		670	µg/Kg-dry	2	09/30/07 18:01
2-Hexanone	ND		1300	µg/Kg-dry	2	09/30/07 18:01

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 18.5

Revision: 10/01/07 11:50

TestCode: 8260SM OLM42

Lab ID: 0709172-001ADL

Client Sample ID: Area-3-W

Collection Date: 09/27/07 14:35

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-DL-T0602.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,2-Dibromoethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
Chlorobenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
Ethylbenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
Xylenes (total)	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Styrene	ND		670	µg/Kg-dry	2	09/30/07 18:01
Bromoform	ND		670	µg/Kg-dry	2	09/30/07 18:01
Isopropylbenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,1,2,2-Tetrachloroethane	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,3-Dichlorobenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,4-Dichlorobenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,2-Dichlorobenzene	ND		670	µg/Kg-dry	2	09/30/07 18:01
1,2-Dibromo-3-chloropropane	ND		1300	µg/Kg-dry	2	09/30/07 18:01
1,2,4-Trichlorobenzene	ND		1300	µg/Kg-dry	2	09/30/07 18:01
Surr: Dibromofluoromethane	73.6		40-156	%REC	2	09/30/07 18:01
Surr: 1,2-Dichloroethane-d4	87.2		71-128	%REC	2	09/30/07 18:01
Surr: Toluene-d8	72.6 S		75-125	%REC	2	09/30/07 18:01
Surr: 4-Bromofluorobenzene	70.8		59-125	%REC	2	09/30/07 18:01

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:48

Col Type:

Sample Size: 5 g

%Moisture: 21.9

TestCode 8260SM OLM42

Lab ID: 0709172-002A

Client Sample ID: Area-1-N

Collection Date: 09/27/07 14:43

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11248

FileID: 1-SAMP-T0585.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Chloromethane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Vinyl chloride	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Bromomethane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Chloroethane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Trichlorofluoromethane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
1,1-Dichloroethene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Acetone	ND		5700	µg/Kg-dry	4	09/29/07 17:32
Carbon disulfide	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Methyl acetate	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Methylene chloride	ND		2800	µg/Kg-dry	4	09/29/07 17:32
trans-1,2-Dichloroethene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Methyl tert-butyl ether	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,1-Dichloroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
cis-1,2-Dichloroethene	2600		1400	µg/Kg-dry	4	09/29/07 17:32
2-Butanone	ND		5700	µg/Kg-dry	4	09/29/07 17:32
Chloroform	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,1,1-Trichloroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Cyclohexane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Carbon tetrachloride	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Benzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,2-Dichloroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Trichloroethene	210000	E	1400	µg/Kg-dry	4	09/29/07 17:32
Methylcyclohexane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,2-Dichloropropane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Bromodichloromethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
cis-1,3-Dichloropropene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
4-Methyl-2-pentanone	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Toluene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
trans-1,3-Dichloropropene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,1,2-Trichloroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Tetrachloroethene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
2-Hexanone	ND		2800	µg/Kg-dry	4	09/29/07 17:32

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:48

Col Type:

Sample Size: 5 g

%Moisture: 21.9

TestCode 8260SM OLM42

Lab ID: 0709172-002A

Client Sample ID: Area-1-N

Collection Date: 09/27/07 14:43

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11248

FileID: 1-SAMP-T0585.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,2-Dibromoethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Chlorobenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Ethylbenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Xylenes (total)	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Styrene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Bromofom	ND		1400	µg/Kg-dry	4	09/29/07 17:32
Isopropylbenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,1,2,2-Tetrachloroethane	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,3-Dichlorobenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,4-Dichlorobenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,2-Dichlorobenzene	ND		1400	µg/Kg-dry	4	09/29/07 17:32
1,2-Dibromo-3-chloropropane	ND		2800	µg/Kg-dry	4	09/29/07 17:32
1,2,4-Trichlorobenzene	ND		2800	µg/Kg-dry	4	09/29/07 17:32
Surr: Dibromofluoromethane	66.4		40-156	%REC	4	09/29/07 17:32
Surr: 1,2-Dichloroethane-d4	82.8		71-128	%REC	4	09/29/07 17:32
Surr: Toluene-d8	69.6 S		75-125	%REC	4	09/29/07 17:32
Surr: 4-Bromofluorobenzene	64.8		59-125	%REC	4	09/29/07 17:32

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 21.9

Revision: 10/01/07 11:50

TestCode 8260SM OLM42

Lab ID: 0709172-002ADL

Client Sample ID: Area-1-N

Collection Date: 09/27/07 14:43

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-DL-T0603.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Chloromethane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Vinyl chloride	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Bromomethane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Chloroethane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Trichlorofluoromethane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
1,1-Dichloroethene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Acetone	ND		23000	µg/Kg-dry	16	09/30/07 18:35
Carbon disulfide	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Methyl acetate	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Methylene chloride	ND		11000	µg/Kg-dry	16	09/30/07 18:35
trans-1,2-Dichloroethene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Methyl tert-butyl ether	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,1-Dichloroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
cis-1,2-Dichloroethene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
2-Butanone	ND		23000	µg/Kg-dry	16	09/30/07 18:35
Chloroform	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,1,1-Trichloroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Cyclohexane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Carbon tetrachloride	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Benzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,2-Dichloroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Trichloroethene	350000		5700	µg/Kg-dry	16	09/30/07 18:35
Methylcyclohexane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,2-Dichloropropane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Bromodichloromethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
cis-1,3-Dichloropropene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
4-Methyl-2-pentanone	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Toluene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
trans-1,3-Dichloropropene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,1,2-Trichloroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Tetrachloroethene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
2-Hexanone	ND		11000	µg/Kg-dry	16	09/30/07 18:35

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:50

Col Type:

Sample Size: 5 g

%Moisture: 21.9

TestCode 8260SM OLM42

Lab ID: 0709172-002ADL

Client Sample ID: Area-1-N

Collection Date: 09/27/07 14:43

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-DL-T0603.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,2-Dibromoethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Chlorobenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Ethylbenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Xylenes (total)	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Styrene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Bromoform	ND		5700	µg/Kg-dry	16	09/30/07 18:35
Isopropylbenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,1,2,2-Tetrachloroethane	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,3-Dichlorobenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,4-Dichlorobenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,2-Dichlorobenzene	ND		5700	µg/Kg-dry	16	09/30/07 18:35
1,2-Dibromo-3-chloropropane	ND		11000	µg/Kg-dry	16	09/30/07 18:35
1,2,4-Trichlorobenzene	ND		11000	µg/Kg-dry	16	09/30/07 18:35
Surr: Dibromofluoromethane	62.4		40-156	%REC	16	09/30/07 18:35
Surr: 1,2-Dichloroethane-d4	80.0		71-128	%REC	16	09/30/07 18:35
Surr: Toluene-d8	67.2 S		75-125	%REC	16	09/30/07 18:35
Surr: 4-Bromofluorobenzene	70.4		59-125	%REC	16	09/30/07 18:35

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.7

Revision: 10/01/07 11:50

TestCode: 8260SM OLM42

Lab ID: 0709172-003A

Client Sample ID: Area-1-E

Collection Date: 09/27/07 14:47

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-SAMP-T0604.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		660	µg/Kg-dry	1	09/30/07 19:08
Chloromethane	ND		660	µg/Kg-dry	1	09/30/07 19:08
Vinyl chloride	ND		660	µg/Kg-dry	1	09/30/07 19:08
Bromomethane	ND		660	µg/Kg-dry	1	09/30/07 19:08
Chloroethane	ND		660	µg/Kg-dry	1	09/30/07 19:08
Trichlorofluoromethane	ND		660	µg/Kg-dry	1	09/30/07 19:08
1,1-Dichloroethene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Acetone	ND		1300	µg/Kg-dry	1	09/30/07 19:08
Carbon disulfide	ND		330	µg/Kg-dry	1	09/30/07 19:08
Methyl acetate	ND		330	µg/Kg-dry	1	09/30/07 19:08
Methylene chloride	ND		660	µg/Kg-dry	1	09/30/07 19:08
trans-1,2-Dichloroethene	ND		330	µg/Kg-dry	1	09/30/07 19:08
Methyl tert-butyl ether	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,1-Dichloroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
cis-1,2-Dichloroethene	ND		330	µg/Kg-dry	1	09/30/07 19:08
2-Butanone	ND		1300	µg/Kg-dry	1	09/30/07 19:08
Chloroform	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,1,1-Trichloroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Cyclohexane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Carbon tetrachloride	ND		330	µg/Kg-dry	1	09/30/07 19:08
Benzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,2-Dichloroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Trichloroethene	5200		330	µg/Kg-dry	1	09/30/07 19:08
Methylcyclohexane	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,2-Dichloropropane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Bromodichloromethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
cis-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	09/30/07 19:08
4-Methyl-2-pentanone	ND		660	µg/Kg-dry	1	09/30/07 19:08
Toluene	ND		330	µg/Kg-dry	1	09/30/07 19:08
trans-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,1,2-Trichloroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Tetrachloroethene	ND		330	µg/Kg-dry	1	09/30/07 19:08
2-Hexanone	ND		660	µg/Kg-dry	1	09/30/07 19:08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:50

Col Type:

Sample Size: 5 g

%Moisture: 17.7

TestCode 8260SM OLM42

Lab ID: 0709172-003A

Client Sample ID: Area-1-E

Collection Date: 09/27/07 14:47

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11249

FileID: 1-SAMP-T0604.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,2-Dibromoethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
Chlorobenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
Ethylbenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
Xylenes (total)	ND		660	µg/Kg-dry	1	09/30/07 19:08
Styrene	ND		330	µg/Kg-dry	1	09/30/07 19:08
Bromoform	ND		330	µg/Kg-dry	1	09/30/07 19:08
Isopropylbenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,1,2,2-Tetrachloroethane	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,3-Dichlorobenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,4-Dichlorobenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,2-Dichlorobenzene	ND		330	µg/Kg-dry	1	09/30/07 19:08
1,2-Dibromo-3-chloropropane	ND		660	µg/Kg-dry	1	09/30/07 19:08
1,2,4-Trichlorobenzene	ND		660	µg/Kg-dry	1	09/30/07 19:08
Surr: Dibromofluoromethane	79.0		40-156	%REC	1	09/30/07 19:08
Surr: 1,2-Dichloroethane-d4	88.6		71-128	%REC	1	09/30/07 19:08
Surr: Toluene-d8	85.5		75-125	%REC	1	09/30/07 19:08
Surr: 4-Bromofluorobenzene	72.1		59-125	%REC	1	09/30/07 19:08

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:20

Col Type:

Sample Size: 5 g

%Moisture: 25.9

TestCode: 8260SM OLM42

Lab ID: 0709172-004A

Client Sample ID: Area-1-S

Collection Date: 09/27/07 14:51

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11244

FileID: 1-SAMP-T0562.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		760	µg/Kg-dry	1	09/28/07 16:37
Chloromethane	ND		760	µg/Kg-dry	1	09/28/07 16:37
Vinyl chloride	ND		760	µg/Kg-dry	1	09/28/07 16:37
Bromomethane	ND		760	µg/Kg-dry	1	09/28/07 16:37
Chloroethane	ND		760	µg/Kg-dry	1	09/28/07 16:37
Trichlorofluoromethane	ND		760	µg/Kg-dry	1	09/28/07 16:37
1,1-Dichloroethene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Acetone	ND		1500	µg/Kg-dry	1	09/28/07 16:37
Carbon disulfide	ND		380	µg/Kg-dry	1	09/28/07 16:37
Methyl acetate	ND		380	µg/Kg-dry	1	09/28/07 16:37
Methylene chloride	ND		760	µg/Kg-dry	1	09/28/07 16:37
trans-1,2-Dichloroethene	ND		380	µg/Kg-dry	1	09/28/07 16:37
Methyl tert-butyl ether	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,1-Dichloroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
cis-1,2-Dichloroethene	2300		380	µg/Kg-dry	1	09/28/07 16:37
2-Butanone	ND		1500	µg/Kg-dry	1	09/28/07 16:37
Chloroform	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,1,1-Trichloroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Cyclohexane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Carbon tetrachloride	ND		380	µg/Kg-dry	1	09/28/07 16:37
Benzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,2-Dichloroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Trichloroethene	73000	E	380	µg/Kg-dry	1	09/28/07 16:37
Methylcyclohexane	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,2-Dichloropropane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Bromodichloromethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
cis-1,3-Dichloropropene	ND		380	µg/Kg-dry	1	09/28/07 16:37
4-Methyl-2-pentanone	ND		760	µg/Kg-dry	1	09/28/07 16:37
Toluene	ND		380	µg/Kg-dry	1	09/28/07 16:37
trans-1,3-Dichloropropene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,1,2-Trichloroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Tetrachloroethene	ND		380	µg/Kg-dry	1	09/28/07 16:37
2-Hexanone	ND		760	µg/Kg-dry	1	09/28/07 16:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:20

Col Type:

Sample Size: 5 g

%Moisture: 25.9

TestCode 8260SM OLM42

Lab ID: 0709172-004A

Client Sample ID: Area-1-S

Collection Date: 09/27/07 14:51

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11244

FileID: 1-SAMP-T0562.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,2-Dibromoethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
Chlorobenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
Ethylbenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
Xylenes (total)	ND		760	µg/Kg-dry	1	09/28/07 16:37
Styrene	ND		380	µg/Kg-dry	1	09/28/07 16:37
Bromoform	ND		380	µg/Kg-dry	1	09/28/07 16:37
Isopropylbenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,1,2,2-Tetrachloroethane	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	09/28/07 16:37
1,2-Dibromo-3-chloropropane	ND		760	µg/Kg-dry	1	09/28/07 16:37
1,2,4-Trichlorobenzene	ND		760	µg/Kg-dry	1	09/28/07 16:37
Surr: Dibromofluoromethane	70.6		40-156	%REC	1	09/28/07 16:37
Surr: 1,2-Dichloroethane-d4	82.4		71-128	%REC	1	09/28/07 16:37
Surr: Toluene-d8	75.6		75-125	%REC	1	09/28/07 16:37
Surr: 4-Bromofluorobenzene	70.4		59-125	%REC	1	09/28/07 16:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:48

Sample Size: 5 g

%Moisture: 25.9

TestCode 8260SM OLM42

Lab ID: 0709172-004ADL

Client Sample ID: Area-1-S

Collection Date: 09/27/07 14:51

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11248

FileID: 1-DL-T0587.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Chloromethane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Vinyl chloride	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Bromomethane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Chloroethane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Trichlorofluoromethane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
1,1-Dichloroethene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Acetone	ND		12000	µg/Kg-dry	8	09/29/07 18:38
Carbon disulfide	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Methyl acetate	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Methylene chloride	ND		6100	µg/Kg-dry	8	09/29/07 18:38
trans-1,2-Dichloroethene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Methyl tert-butyl ether	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,1-Dichloroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
cis-1,2-Dichloroethene	5100		3000	µg/Kg-dry	8	09/29/07 18:38
2-Butanone	ND		12000	µg/Kg-dry	8	09/29/07 18:38
Chloroform	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,1,1-Trichloroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Cyclohexane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Carbon tetrachloride	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Benzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,2-Dichloroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Trichloroethene	170000		3000	µg/Kg-dry	8	09/29/07 18:38
Methylcyclohexane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,2-Dichloropropane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Bromodichloromethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
cis-1,3-Dichloropropene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
4-Methyl-2-pentanone	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Toluene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
trans-1,3-Dichloropropene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,1,2-Trichloroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Tetrachloroethene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
2-Hexanone	ND		6100	µg/Kg-dry	8	09/29/07 18:38

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709172

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/01/07 11:48

Col Type:

Sample Size: 5 g

%Moisture: 25.9

TestCode 8260SM OLM42

Lab ID: 0709172-004ADL

Client Sample ID: Area-1-S

Collection Date: 09/27/07 14:51

Date Received: 09/27/07 16:35

PrepDate: 09/28/07 10:00

BatchNo: 6258/R11248

FileID: 1-DL-T0587.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,2-Dibromoethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Chlorobenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Ethylbenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Xylenes (total)	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Styrene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Bromoform	ND		3000	µg/Kg-dry	8	09/29/07 18:38
Isopropylbenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,1,2,2-Tetrachloroethane	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,3-Dichlorobenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,4-Dichlorobenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,2-Dichlorobenzene	ND		3000	µg/Kg-dry	8	09/29/07 18:38
1,2-Dibromo-3-chloropropane	ND		6100	µg/Kg-dry	8	09/29/07 18:38
1,2,4-Trichlorobenzene	ND		6100	µg/Kg-dry	8	09/29/07 18:38
Surr: Dibromofluoromethane	80.0		40-156	%REC	8	09/29/07 18:38
Surr: 1,2-Dichloroethane-d4	97.6		71-128	%REC	8	09/29/07 18:38
Surr: Toluene-d8	75.2		75-125	%REC	8	09/29/07 18:38
Surr: 4-Bromofluorobenzene	76.8		59-125	%REC	8	09/29/07 18:38

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: D'BRIEN & GERE ENGINEERS		Analysis/Method					
Project: UTICA ALLOYS - IRM							
Sampled by: ED RAMN							
Client Contact: DEB WRIGHT		Phone # 437-6100					
Sample Description							
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers		Comments
AREA-3-W	9/27/07	1435	SOIL	GRAB	2	X	X
AREA-1-N	9/27/07	1443	SOIL	GRAB	2	X	X
AREA-1-E	9/27/07	1447	SOIL	GRAB	2	X	X
AREA-1-S	9/27/07	1451	SOIL	GRAB	2	X	X
Reinquinshed by: <u>Edwina Raban</u> Date: <u>9/27/07</u> Time: <u>1635</u>							
Reinquinshed by: _____ Date: _____ Time: _____							
Reinquinshed by: _____ Date: _____ Time: _____							
Shipment Method: _____							

FOR PCBs VCLs
% Solids

Received by: _____ Date: 9/27/07 Time: 1635
Received by: _____ Date: _____ Time: _____
Received by Lab: _____ Date: 9/27/07 Time: 1635
Airbill Number: _____

Turnaround Time Required: _____ Comments: _____
Routine _____
Rush (Specify) ✓ 24 Hrs.

Cooler Temperature: 12.8°C on ice

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**
Work Order Number **0709172**

Date and Time Received: **9/27/2007 4:35:00 PM**
Received by: **ads**

Checklist completed by: 
Initials _____ Date 9/27/07

Reviewed by: ms
Initials _____ Date 9/27/07

Matrix: _____ Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Tuesday, October 02, 2007

Deborah Wright

O'Brien & Gere Engineers, Inc.

5000 Brittonfield Parkway

PO Box 4873

Syracuse, NY 13221-4873

TEL: 315-437-6100

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0709155

Dear Deborah Wright:

Life Science Laboratories, Inc. received 1 sample(s) on 9/26/2007 for the analyses presented in the following report.

Very truly yours,

Life Science Laboratories, Inc.

Monika Santucci

Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709155

Matrix: SOIL

Inst. ID: MS02 12

Sample Size: 5 g

ColumnID: Rtx-502.2

%Moisture: 11.3

Revision: 09/28/07 8:33

TestCode: 8260S OLM42

Lab ID: 0709155-001A

Client Sample ID: Area-1-W

Collection Date: 09/26/07 11:57

Date Received: 09/26/07 18:15

PrepDate:

BatchNo: R11218

FileID: 1-SAMP-M2564.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Chloromethane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Vinyl chloride	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Bromomethane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Chloroethane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Trichlorofluoromethane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
1,1-Dichloroethene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Acetone	15		11	µg/Kg-dry	1	09/27/07 13:37
Carbon disulfide	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Methyl acetate	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Methylene chloride	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
trans-1,2-Dichloroethene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Methyl tert-butyl ether	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,1-Dichloroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
cis-1,2-Dichloroethene	11		2.8	µg/Kg-dry	1	09/27/07 13:37
2-Butanone	ND		11	µg/Kg-dry	1	09/27/07 13:37
Chloroform	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,1,1-Trichloroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Cyclohexane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Carbon tetrachloride	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Benzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,2-Dichloroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Trichloroethene	9.3		2.8	µg/Kg-dry	1	09/27/07 13:37
Methylcyclohexane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,2-Dichloropropane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Bromodichloromethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
cis-1,3-Dichloropropene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
4-Methyl-2-pentanone	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Toluene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
trans-1,3-Dichloropropene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,1,2-Trichloroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Tetrachloroethene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
2-Hexanone	ND		5.6	µg/Kg-dry	1	09/27/07 13:37

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0709155

Matrix: SOIL

Inst. ID: MS02 12

Sample Size: 5 g

ColumnID: Rtx-502.2

%Moisture: 11.3

Revision: 09/28/07 8:33

TestCode 8260S OLM42

Lab ID: 0709155-001A

Client Sample ID: Area-1-W

Collection Date: 09/26/07 11:57

Date Received: 09/26/07 18:15

PrepDate:

BatchNo: R11218

FileID: 1-SAMP-M2564.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,2-Dibromoethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Chlorobenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Ethylbenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Xylenes (total)	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Styrene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Bromofom	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
Isopropylbenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,1,2,2-Tetrachloroethane	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,3-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,4-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,2-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	09/27/07 13:37
1,2-Dibromo-3-chloropropane	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
1,2,4-Trichlorobenzene	ND		5.6	µg/Kg-dry	1	09/27/07 13:37
Surr: Dibromofluoromethane	107		40-156	%REC	1	09/27/07 13:37
Surr: 1,2-Dichloroethane-d4	110		71-128	%REC	1	09/27/07 13:37
Surr: Toluene-d8	108		75-125	%REC	1	09/27/07 13:37
Surr: 4-Bromofluorobenzene	103		59-125	%REC	1	09/27/07 13:37

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0709155
Matrix: SOIL
Inst. ID: DENVER APX-200
ColumnID:
Revision: 09/28/07 9:15
Col Type:

Sample Size: NA
%Moisture:
TestCode PMOIST

Lab ID: 0709155-001A
Client Sample ID: Area-1-W
Collection Date: 09/26/07 11:57
Date Received: 09/26/07 18:15
PrepDate:
BatchNo: R11223
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT MOISTURE				SM 2540 G		
Percent Moisture	11.3		1.0	wt%	1	09/27/07 2:00

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: <i>O'BRIEN & GERE ENGINEERS</i>						Analysis/Method												
Project: <i>UTICA ALLOYS - IRM</i>						<i>VOCs</i>												
Sampled by: <i>ED RAHN</i>																		
Client Contact: <i>DEB WRIGHT</i> Phone # <i>437-6100</i>																		
Sample Description																		
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers												Comments	
<i>AREA-1-W</i>	<i>9/26/07</i>	<i>1157</i>	<i>SOIL</i>	<i>GRAB</i>	<i>1</i>	<i>X</i>												
Relinquished by: <i>Edwin B. Rahn</i> Date: <i>9/26/07</i> Time: <i>1807</i>						Received by: _____ Date: _____ Time: _____												
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____												
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: <i>[Signature]</i> Date: <i>9/27/07</i> Time: <i>0800</i>												
Shipment Method: _____						Airbill Number: _____												

Turnaround Time Required:
 Routine _____
 Rush (Specify) *✓ 24 Hrs.*
 Cooler Temperature: *On Ice*

Comments:

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: OBG-MS

Date and Time Received:

9/26/2007 6:15:00 PM

Work Order Number 0709155

Received by: ads

Checklist completed by:

9/27/07

Reviewed by:

MS

9/27/07

Initials

Date

Initials

Date

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::

CASE FILE FORM

PROGRAM INFORMATION

CLIENT: _____ DIV. _____ REF. No. _____

PROGRAM: _____

CUSTODY SEAL: _____ INTACT _____ NOT INTACT _____ NA

AFTER HOURS CUSTODY

RELINQUISHED BY:		RECEIVED BY:			
CLIENT: LSL	DATE	TIME	SECURITY GUARD:	DATE	TIME
			<i>Don Loop</i>	<i>9/30/07</i>	<i>1807</i>
GUARD TO COOLER:	DATE	TIME	SAMPLE CUSTODIAN	DATE	TIME
<i>Don Loop</i>	<i>9/30/07</i>	<i>1815</i>	<i>[Signature]</i>	<i>9/27/07</i>	<i>0800</i>

COMMENTS/DISCREPANCIES:

Samples relinquished to walk-in cooler.
Stored in walk-in cooler @ 4°C

RESOLUTION/CLIENT COMMENT:

SIGNED: _____

DATE: _____

QA/QC APPROVAL: _____

SIGNED: _____

DATE: _____



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Monday, October 15, 2007

Deborah Wright
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL: 315-437-6100

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710025

Dear Deborah Wright:

Life Science Laboratories, Inc. received 10 sample(s) on 10/2/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/09/07 7:31

Col Type:

Sample Size: 5 g

%Moisture: 19.1

TestCode 8260S OLM42

Lab ID: 0710025-007A

Client Sample ID: Area-1-N2

Collection Date: 10/02/07 14:03

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11322

FileID: 1-SAMP-J4663.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
---------	--------	------	-----	-------	----	---------------

VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dichlorodifluoromethane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Chloromethane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Vinyl chloride	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Bromomethane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Chloroethane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Trichlorofluoromethane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
1,1-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Acetone	44		12	µg/Kg-dry	1	10/04/07 9:55
Carbon disulfide	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Methyl acetate	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Methylene chloride	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
trans-1,2-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Methyl tert-butyl ether	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,1-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
cis-1,2-Dichloroethene	85		3.1	µg/Kg-dry	1	10/04/07 9:55
2-Butanone	ND		12	µg/Kg-dry	1	10/04/07 9:55
Chloroform	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,1,1-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Cyclohexane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Carbon tetrachloride	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Benzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,2-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Trichloroethene	32		3.1	µg/Kg-dry	1	10/04/07 9:55
Methylcyclohexane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,2-Dichloropropane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Bromodichloromethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
cis-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
4-Methyl-2-pentanone	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Toluene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
trans-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,1,2-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Tetrachloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
2-Hexanone	ND		6.2	µg/Kg-dry	1	10/04/07 9:55

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/09/07 7:31

Col Type:

Sample Size: 5 g

%Moisture: 19.1

TestCode 8260S OLM42

Lab ID: 0710025-007A

Client Sample ID: Area-1-N2

Collection Date: 10/02/07 14:03

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11322

FileID: 1-SAMP-J4663.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,2-Dibromoethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Chlorobenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Ethylbenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Xylenes (total)	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Styrene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Bromoform	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
Isopropylbenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,1,2,2-Tetrachloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,3-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,4-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,2-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/04/07 9:55
1,2-Dibromo-3-chloropropane	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
1,2,4-Trichlorobenzene	ND		6.2	µg/Kg-dry	1	10/04/07 9:55
Surr: Dibromofluoromethane	100		40-156	%REC	1	10/04/07 9:55
Surr: 1,2-Dichloroethane-d4	95.8		71-128	%REC	1	10/04/07 9:55
Surr: Toluene-d8	115		75-125	%REC	1	10/04/07 9:55
Surr: 4-Bromofluorobenzene	99.4		59-125	%REC	1	10/04/07 9:55

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/09/07 7:31

Col Type:

Sample Size: 5 g

%Moisture: 18.7

TestCode 8260S OLM42

Lab ID: 0710025-008A

Client Sample ID: Area-1-E2

Collection Date: 10/02/07 14:10

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11322

FileID: 1-SAMP-J4664.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Chloromethane	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Vinyl chloride	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Bromomethane	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Chloroethane	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Trichlorofluoromethane	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
1,1-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Acetone	ND		12	µg/Kg-dry	1	10/04/07 10:29
Carbon disulfide	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Methyl acetate	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Methylene chloride	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
trans-1,2-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Methyl tert-butyl ether	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,1-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
cis-1,2-Dichloroethene	350	E	3.1	µg/Kg-dry	1	10/04/07 10:29
2-Butanone	ND		12	µg/Kg-dry	1	10/04/07 10:29
Chloroform	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,1,1-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Cyclohexane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Carbon tetrachloride	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Benzene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,2-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Trichloroethene	2500	E	3.1	µg/Kg-dry	1	10/04/07 10:29
Methylcyclohexane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,2-Dichloropropane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Bromodichloromethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
cis-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
4-Methyl-2-pentanone	ND		6.2	µg/Kg-dry	1	10/04/07 10:29
Toluene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
trans-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
1,1,2-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
Tetrachloroethene	ND		3.1	µg/Kg-dry	1	10/04/07 10:29
2-Hexanone	ND		6.2	µg/Kg-dry	1	10/04/07 10:29

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/09/07 7:31

Col Type:

Sample Size: 5 g

%Moisture: 18.7

TestCode 8260S OLM42

Lab ID: 0710025-008A

Client Sample ID: Area-1-E2

Collection Date: 10/02/07 14:10

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11322

FileID: 1-SAMP-J4664.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,2-Dibromoethane	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
Chlorobenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
Ethylbenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
Xylenes (total)	ND	6.2		µg/Kg-dry	1	10/04/07 10:29
Styrene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
Bromoform	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
Isopropylbenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,1,2,2-Tetrachloroethane	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,3-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,4-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,2-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/04/07 10:29
1,2-Dibromo-3-chloropropane	ND	6.2		µg/Kg-dry	1	10/04/07 10:29
1,2,4-Trichlorobenzene	ND	6.2		µg/Kg-dry	1	10/04/07 10:29
Surr: Dibromofluoromethane	106	40-156		%REC	1	10/04/07 10:29
Surr: 1,2-Dichloroethane-d4	98.9	71-128		%REC	1	10/04/07 10:29
Surr: Toluene-d8	90.7	75-125		%REC	1	10/04/07 10:29
Surr: 4-Bromofluorobenzene	75.4	59-125		%REC	1	10/04/07 10:29

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/05/07 10:49

Sample Size: 5 g

%Moisture: 18.7

TestCode 8260SM OLM42

Lab ID: 0710025-008ADL

Client Sample ID: Area-1-E2

Collection Date: 10/02/07 14:10

Date Received: 10/02/07 17:10

PrepDate: 10/04/07 11:00

BatchNo: 6313/R11338

FileID: 1-DL-T0694.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		670	µg/Kg-dry	1	10/04/07 11:56
Chloromethane	ND		670	µg/Kg-dry	1	10/04/07 11:56
Vinyl chloride	ND		670	µg/Kg-dry	1	10/04/07 11:56
Bromomethane	ND		670	µg/Kg-dry	1	10/04/07 11:56
Chloroethane	ND		670	µg/Kg-dry	1	10/04/07 11:56
Trichlorofluoromethane	ND		670	µg/Kg-dry	1	10/04/07 11:56
1,1-Dichloroethene	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Acetone	ND		1300	µg/Kg-dry	1	10/04/07 11:56
Carbon disulfide	ND		340	µg/Kg-dry	1	10/04/07 11:56
Methyl acetate	ND		340	µg/Kg-dry	1	10/04/07 11:56
Methylene chloride	ND		670	µg/Kg-dry	1	10/04/07 11:56
trans-1,2-Dichloroethene	ND		340	µg/Kg-dry	1	10/04/07 11:56
Methyl tert-butyl ether	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,1-Dichloroethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
cis-1,2-Dichloroethene	340		340	µg/Kg-dry	1	10/04/07 11:56
2-Butanone	ND		1300	µg/Kg-dry	1	10/04/07 11:56
Chloroform	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,1,1-Trichloroethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Cyclohexane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Carbon tetrachloride	ND		340	µg/Kg-dry	1	10/04/07 11:56
Benzene	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,2-Dichloroethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Trichloroethene	15000		340	µg/Kg-dry	1	10/04/07 11:56
Methylcyclohexane	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,2-Dichloropropane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Bromodichloromethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
cis-1,3-Dichloropropene	ND		340	µg/Kg-dry	1	10/04/07 11:56
4-Methyl-2-pentanone	ND		670	µg/Kg-dry	1	10/04/07 11:56
Toluene	ND		340	µg/Kg-dry	1	10/04/07 11:56
trans-1,3-Dichloropropene	ND		340	µg/Kg-dry	1	10/04/07 11:56
1,1,2-Trichloroethane	ND		340	µg/Kg-dry	1	10/04/07 11:56
Tetrachloroethene	ND		340	µg/Kg-dry	1	10/04/07 11:56
2-Hexanone	ND		670	µg/Kg-dry	1	10/04/07 11:56

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710025-008ADL
Project: Utica Alloy- IRM	Client Sample ID: Area-1-E2
W Order: 0710025	Collection Date: 10/02/07 14:10
Matrix: SOIL	Date Received: 10/02/07 17:10
Inst. ID: MS01 11	PrepDate: 10/04/07 11:00
ColumnID: Rtx-VMS	BatchNo: 6313/R11338
Revision: 10/05/07 10:49	FileID: 1-DL-T0694.D
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
			SW8260B	(SW5035_MED)		
Dibromochloromethane	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,2-Dibromoethane	ND	340		µg/Kg-dry	1	10/04/07 11:56
Chlorobenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
Ethylbenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
Xylenes (total)	ND	670		µg/Kg-dry	1	10/04/07 11:56
Styrene	ND	340		µg/Kg-dry	1	10/04/07 11:56
Bromoform	ND	340		µg/Kg-dry	1	10/04/07 11:56
Isopropylbenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,1,2,2-Tetrachloroethane	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,3-Dichlorobenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,4-Dichlorobenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,2-Dichlorobenzene	ND	340		µg/Kg-dry	1	10/04/07 11:56
1,2-Dibromo-3-chloropropane	ND	670		µg/Kg-dry	1	10/04/07 11:56
1,2,4-Trichlorobenzene	ND	670		µg/Kg-dry	1	10/04/07 11:56
Surr: Dibromofluoromethane	99.6	40-156		%REC	1	10/04/07 11:56
Surr: 1,2-Dichloroethane-d4	112	71-128		%REC	1	10/04/07 11:56
Surr: Toluene-d8	106	75-125		%REC	1	10/04/07 11:56
Surr: 4-Bromofluorobenzene	89.1	59-125		%REC	1	10/04/07 11:56

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710025
Matrix: SOIL
Inst. ID: MS03 10 **Sample Size:** 5 g
ColumnID: Rtx-VMS **%Moisture:** 8.9
Revision: 10/09/07 7:31 **TestCode** 8260S OLM42
Col Type:

Lab ID: 0710025-009A
Client Sample ID: Area-1-S2-1.5'
Collection Date: 10/02/07 14:18
Date Received: 10/02/07 17:10
PrepDate:
BatchNo: R11322
FileID: 1-SAMP-J4671.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Chloromethane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Vinyl chloride	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Bromomethane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Chloroethane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Trichlorofluoromethane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
1,1-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Acetone	15		11	µg/Kg-dry	1	10/04/07 14:44
Carbon disulfide	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Methyl acetate	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Methylene chloride	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
trans-1,2-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Methyl tert-butyl ether	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,1-Dichloroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
cis-1,2-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
2-Butanone	ND		11	µg/Kg-dry	1	10/04/07 14:44
Chloroform	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,1,1-Trichloroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Cyclohexane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Carbon tetrachloride	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Benzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,2-Dichloroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Trichloroethene	29		2.7	µg/Kg-dry	1	10/04/07 14:44
Methylcyclohexane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,2-Dichloropropane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Bromodichloromethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
cis-1,3-Dichloropropene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
4-Methyl-2-pentanone	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Toluene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
trans-1,3-Dichloropropene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,1,2-Trichloroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Tetrachloroethene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
2-Hexanone	ND		5.5	µg/Kg-dry	1	10/04/07 14:44

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/09/07 7:31

Col Type:

Sample Size: 5 g

%Moisture: 8.9

TestCode 8260S OLM42

Lab ID: 0710025-009A

Client Sample ID: Area-1-S2-1.5'

Collection Date: 10/02/07 14:18

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11322

FileID: 1-SAMP-J4671.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,2-Dibromoethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Chlorobenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Ethylbenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Xylenes (total)	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Styrene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Bromoform	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
Isopropylbenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,1,2,2-Tetrachloroethane	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,3-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,4-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,2-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/04/07 14:44
1,2-Dibromo-3-chloropropane	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
1,2,4-Trichlorobenzene	ND		5.5	µg/Kg-dry	1	10/04/07 14:44
Surr: Dibromofluoromethane	99.3		40-156	%REC	1	10/04/07 14:44
Surr: 1,2-Dichloroethane-d4	96.2		71-128	%REC	1	10/04/07 14:44
Surr: Toluene-d8	109		75-125	%REC	1	10/04/07 14:44
Surr: 4-Bromofluorobenzene	99.8		59-125	%REC	1	10/04/07 14:44

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/11/07 10:20

Col Type:

Sample Size: 5 g

%Moisture: 20.1

TestCode: 8260S OLM42

Lab ID: 0710025-010A

Client Sample ID: Area-1-B

Collection Date: 10/02/07 14:32

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11382

FileID: 1-SAMP-J4731.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Chloromethane	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Vinyl chloride	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Bromomethane	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Chloroethane	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Trichlorofluoromethane	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
1,1-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Acetone	260		13	µg/Kg-dry	1	10/08/07 11:29
Carbon disulfide	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Methyl acetate	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Methylene chloride	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
trans-1,2-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Methyl tert-butyl ether	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,1-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
cis-1,2-Dichloroethene	120		3.1	µg/Kg-dry	1	10/08/07 11:29
2-Butanone	40		13	µg/Kg-dry	1	10/08/07 11:29
Chloroform	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,1,1-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Cyclohexane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Carbon tetrachloride	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Benzene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,2-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Trichloroethene	27		3.1	µg/Kg-dry	1	10/08/07 11:29
Methylcyclohexane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,2-Dichloropropane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Bromodichloromethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
cis-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
4-Methyl-2-pentanone	ND		6.3	µg/Kg-dry	1	10/08/07 11:29
Toluene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
trans-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
1,1,2-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
Tetrachloroethene	ND		3.1	µg/Kg-dry	1	10/08/07 11:29
2-Hexanone	ND		6.3	µg/Kg-dry	1	10/08/07 11:29

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/11/07 10:20

Col Type:

Sample Size: 5 g

%Moisture: 20.1

TestCode 8260S OLM42

Lab ID: 0710025-010A

Client Sample ID: Area-1-B

Collection Date: 10/02/07 14:32

Date Received: 10/02/07 17:10

PrepDate:

BatchNo: R11382

FileID: 1-SAMP-J4731.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,2-Dibromoethane	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
Chlorobenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
Ethylbenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
Xylenes (total)	ND	6.3		µg/Kg-dry	1	10/08/07 11:29
Styrene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
Bromofom	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
Isopropylbenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,1,2,2-Tetrachloroethane	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,3-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,4-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,2-Dichlorobenzene	ND	3.1		µg/Kg-dry	1	10/08/07 11:29
1,2-Dibromo-3-chloropropane	ND	6.3		µg/Kg-dry	1	10/08/07 11:29
1,2,4-Trichlorobenzene	ND	6.3		µg/Kg-dry	1	10/08/07 11:29
Surr: Dibromofluoromethane	102	40-156		%REC	1	10/08/07 11:29
Surr: 1,2-Dichloroethane-d4	97.4	71-128		%REC	1	10/08/07 11:29
Surr: Toluene-d8	104	75-125		%REC	1	10/08/07 11:29
Surr: 4-Bromofluorobenzene	88.9	59-125		%REC	1	10/08/07 11:29

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 5.7

Revision: 10/04/07 12:16

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710025-001A

Client Sample ID: Area-D-N2

Collection Date: 10/02/07 8:30

Date Received: 10/02/07 17:10

PrepDate: 10/03/07 9:16

BatchNo: 6286/R11312

FileID: 1-SAMP-E:\Pkoc07\L100315.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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POLYCHLORINATED BIPHENYLS BY GC/ECD

SW8082

(SW3550B)

Aroclor 1016	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1221	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1232	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1242	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1248	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1254	2.01		0.530	mg/Kg-dry	1	10/03/07 16:44
Aroclor 1260	ND		0.530	mg/Kg-dry	1	10/03/07 16:44
Surr: Tetrachloro-m-xylene	73.2		44-134	%REC	1	10/03/07 16:44
Surr: Decachlorobiphenyl	52.7		36-141	%REC	1	10/03/07 16:44

NOTES:

Altered Aroclor 1254.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 9.5

Revision: 10/04/07 12:16

TestCode 8082S3

Lab ID: 0710025-002A

Client Sample ID: Area-D-E2

Collection Date: 10/02/07 8:32

Date Received: 10/02/07 17:10

PrepDate: 10/03/07 9:16

BatchNo: 6286/R11312

FileID: 1-SAMP-E:\Pkoct07\L100316.rs

Col Type: Primary

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1221	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1232	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1242	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1248	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1254	3.54		0.552	mg/Kg-dry	1	10/03/07 17:14
Aroclor 1260	ND		0.552	mg/Kg-dry	1	10/03/07 17:14
Surr: Tetrachloro-m-xylene	63.5		44-134	%REC	1	10/03/07 17:14
Surr: Decachlorobiphenyl	49.3		36-141	%REC	1	10/03/07 17:14

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 16.6

Revision: 10/04/07 12:46

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710025-003A

Client Sample ID: Area-D-S2

Collection Date: 10/02/07 8:34

Date Received: 10/02/07 17:10

PrepDate: 10/03/07 9:16

BatchNo: 6286/R11341

FileID: 1-SAMP-E:\Pkoct07\L100403.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1221	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1232	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1242	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1248	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1254	7.54		1.20	mg/Kg-dry	2	10/04/07 9:51
Aroclor 1260	ND		1.20	mg/Kg-dry	2	10/04/07 9:51
Surr: Tetrachloro-m-xylene	80.0		44-134	%REC	2	10/04/07 9:51
Surr: Decachlorobiphenyl	59.7		36-141	%REC	2	10/04/07 9:51

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 13.7

Revision: 10/04/07 12:16

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710025-004A

Client Sample ID: Area-D-W2

Collection Date: 10/02/07 8:36

Date Received: 10/02/07 17:10

PrepDate: 10/03/07 9:16

BatchNo: 6286/R11312

FileID: 1-SAMP-E:\Pkoc07\L100318.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1221	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1232	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1242	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1248	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1254	1.87		0.579	mg/Kg-dry	1	10/03/07 18:16
Aroclor 1260	ND		0.579	mg/Kg-dry	1	10/03/07 18:16
Surr: Tetrachloro-m-xylene	61.5		44-134	%REC	1	10/03/07 18:16
Surr: Decachlorobiphenyl	49.7		36-141	%REC	1	10/03/07 18:16

NOTES:

Altered Aroclor 1254.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710025-005A
Project: Utica Alloy- IRM	Client Sample ID: Area-D-B2
W Order: 0710025	Collection Date: 10/02/07 8:39
Matrix: SOIL	Date Received: 10/02/07 17:10
Inst. ID: GCPK 19L	PrepDate: 10/03/07 9:16
ColumnID: DB-1701	BatchNo: 6286/R11312
Revision: 10/04/07 12:16	FileID: 1-SAMP-E:\Pkoc07\L100319.rs
Col Type: Primary	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1221	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1232	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1242	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1248	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1254	3.56		0.628	mg/Kg-dry	1	10/03/07 18:47
Aroclor 1260	ND		0.628	mg/Kg-dry	1	10/03/07 18:47
Surr: Tetrachloro-m-xylene	69.8		44-134	%REC	1	10/03/07 18:47
Surr: Decachlorobiphenyl	52.5		36-141	%REC	1	10/03/07 18:47

NOTES:

Altered Aroclor 1254.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710025

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 10.9

Revision: 10/04/07 12:46

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710025-006A

Client Sample ID: Area-F-B2

Collection Date: 10/02/07 8:43

Date Received: 10/02/07 17:10

PrepDate: 10/03/07 9:16

BatchNo: 6286/R11341

FileID: 1-SAMP-E:\Pkoc07\L100404.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1221	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1232	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1242	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1248	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1254	55.4		5.61	mg/Kg-dry	10	10/04/07 10:21
Aroclor 1260	ND		5.61	mg/Kg-dry	10	10/04/07 10:21
Surr: Tetrachloro-m-xylene	100		44-134	%REC	10	10/04/07 10:21
Surr: Decachlorobiphenyl	90.0		36-141	%REC	10	10/04/07 10:21

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 04-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.
Lab Order: 0710025
Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-D-N2	0710025-001A	wt%	10/2/2007	10/2/2007	10/3/2007	R11333	5.70
Area-D-E2	0710025-002A	wt%	10/2/2007	10/2/2007	10/3/2007	R11333	9.50
Area-D-S2	0710025-003A	wt%	10/2/2007	10/2/2007	10/3/2007	R11333	16.6
Area-D-W2	0710025-004A	wt%	10/2/2007	10/2/2007	10/3/2007	R11333	13.7
Area-D-B2	0710025-005A	wt%	10/2/2007	10/2/2007	10/3/2007	R11333	20.4
Area-F-B2	0710025-006A	wt%	10/2/2007	10/2/2007	10/3/2007	R11334	10.9
Area-1-N2	0710025-007B	wt%	10/2/2007	10/2/2007	10/3/2007	R11334	19.1
Area-1-E2	0710025-008B	wt%	10/2/2007	10/2/2007	10/3/2007	R11334	18.7
Area-1-S2-1.5'	0710025-009B	wt%	10/2/2007	10/2/2007	10/3/2007	R11334	8.90
Area-1-B	0710025-010B	wt%	10/2/2007	10/2/2007	10/3/2007	R11334	20.1



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: D'BRIEN & GERE ENGINEERS						Analysis/Method									
Project: UTICA ALLOYS - IIRM						PCBs	VOCs	% SOLIDS							Comments
Sampled by: ED RAHN															
Client Contact: DEB WRIGHT Phone # 437-6100															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										
AREA-D-N2	10/2/07	0830	SOIL	GRAB	1	X									
AREA-D-E2	10/2/07	0832	SOIL	GRAB	1	X									
AREA-D-S2	10/2/07	0834	SOIL	GRAB	1	X									
AREA-D-W2	10/2/07	0836	SOIL	GRAB	1	X									
AREA-D-B2	10/2/07	0839	SOIL	GRAB	1	X									
AREA-F-B2	10/2/07	0843	SOIL	GRAB	1	X									
AREA-1-N2	10/2/07	1403	SOIL	GRAB	2		X	X						24	
AREA-1-E2	10/2/07	1410	SOIL	GRAB	2		X	X						HOLD	
AREA-1-S2-1.5'	10/2/07	1418	SOIL	GRAB	2		X	X						14 DAY	
AREA-1-S2-3' EDR	10/2/07	1424	SOIL	GRAB	2		X	X							
AREA-1-B	10/2/07	1432	SOIL	GRAB	2		X	X						14 DAY	
Relinquished by: <i>Edwin By Rahn</i> Date: <i>10/2/07</i> Time: <i>1710</i>						Received by: <i>Danni D. Roberts</i> Date: <i>10/2/07</i> Time: <i>17:10</i>									
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____									
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: _____ Date: _____ Time: _____									
Shipment Method: _____						Airbill Number: _____									

Turnaround Time Required:
 Routine _____
 Rush (Specify) ✓ 24 Hrs.
 Cooler Temperature: 4°C

Comments:

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received: **10/2/2007 5:10:00 PM**

Work Order Number **0710025**

Received by: **ads**

Checklist completed by:



10/3/07

Reviewed by:



10/3/07

Initials

Date

Initials

Date

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::

Monika Santucci

From: Deborah Wright [WrightDY@obg.com]
Sent: Wednesday, October 03, 2007 10:05 AM
To: Monika Santucci
Subject: VOC Hold

Sample - can you run it as a 24-hour TAT

This email, including any attachment(s) to it, is confidential and intended solely for the use of the individual or entity to which it is addressed. If you have received this email in error, please notify the sender. Note that any views or opinions presented in this email are solely those of the author and do not represent those of O'Brien & Gere. O'Brien & Gere does not accept liability for any damage caused by any virus transmitted by this email. The recipient should check this email and any attachments for the presence of viruses.



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Saturday, October 20, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710003

Dear Scott Tucker:

Life Science Laboratories, Inc. received 2 sample(s) on 9/28/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710003

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 25 g

ColumnID: Rtx-VMS

%Moisture: 12.0

Revision: 10/11/07 9:54

TestCode: 8260L 1311

Lab ID: 0710003-001A

Client Sample ID: WCS-1

Collection Date: 09/28/07 14:45

Date Received: 09/28/07 15:45

PrepDate: 10/02/07 16:45

BatchNo: 6295/R11421

FileID: 1-SAMP-T0757.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS IN TCLP BY GC/MS				SW8260B		(SW1311)
1,1-Dichloroethene	ND		0.0100	mg/L	20	10/10/07 12:34
1,2-Dichloroethane	ND		0.0100	mg/L	20	10/10/07 12:34
2-Butanone	ND		0.0400	mg/L	20	10/10/07 12:34
Benzene	ND		0.0100	mg/L	20	10/10/07 12:34
Carbon tetrachloride	ND		0.0100	mg/L	20	10/10/07 12:34
Chlorobenzene	0.0204		0.0100	mg/L	20	10/10/07 12:34
Chloroform	ND		0.0100	mg/L	20	10/10/07 12:34
Tetrachloroethene	ND		0.0100	mg/L	20	10/10/07 12:34
Trichloroethene	0.101		0.0100	mg/L	20	10/10/07 12:34
Vinyl chloride	ND		0.0200	mg/L	20	10/10/07 12:34
Surr: 1,2-Dichloroethane-d4	116		75-134	%REC	20	10/10/07 12:34
Surr: 4-Bromofluorobenzene	91.9		75-125	%REC	20	10/10/07 12:34
Surr: Dibromofluoromethane	103		75-127	%REC	20	10/10/07 12:34
Surr: Toluene-d8	109		75-125	%REC	20	10/10/07 12:34

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710003

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 25 g

ColumnID: Rtx-VMS

%Moisture: 8.0

Revision: 10/11/07 9:54

TestCode 8260L 1311

Lab ID: 0710003-002A

Client Sample ID: WCS-2

Collection Date: 09/28/07 14:45

Date Received: 09/28/07 15:45

PrepDate: 10/02/07 16:45

BatchNo: 6295/R11421

FileID: 1-SAMP-T0759.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS IN TCLP BY GC/MS				SW8260B		(SW1311)
1,1-Dichloroethene	ND		0.0100	mg/L	20	10/10/07 13:42
1,2-Dichloroethane	ND		0.0100	mg/L	20	10/10/07 13:42
2-Butanone	ND		0.0400	mg/L	20	10/10/07 13:42
Benzene	ND		0.0100	mg/L	20	10/10/07 13:42
Carbon tetrachloride	ND		0.0100	mg/L	20	10/10/07 13:42
Chlorobenzene	0.0140		0.0100	mg/L	20	10/10/07 13:42
Chloroform	ND		0.0100	mg/L	20	10/10/07 13:42
Tetrachloroethene	ND		0.0100	mg/L	20	10/10/07 13:42
Trichloroethene	ND		0.0100	mg/L	20	10/10/07 13:42
Vinyl chloride	ND		0.0200	mg/L	20	10/10/07 13:42
Surr: 1,2-Dichloroethane-d4	116		75-134	%REC	20	10/10/07 13:42
Surr: 4-Bromofluorobenzene	91.2		75-125	%REC	20	10/10/07 13:42
Surr: Dibromofluoromethane	103		75-127	%REC	20	10/10/07 13:42
Surr: Toluene-d8	108		75-125	%REC	20	10/10/07 13:42

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710003

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 100 mL

ColumnID: DB-5MS

%Moisture: 12.0

Revision: 10/10/07 15:02

TestCode 8270L 1311

Lab ID: 0710003-001B

Client Sample ID: WCS-1

Collection Date: 09/28/07 14:45

Date Received: 09/28/07 15:45

PrepDate: 10/03/07 13:55

BatchNo: 6290/R11420

FileID: 1-SAMP-N8307.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS COMPOUNDS IN TCLP BY GC/MS				SW8270C		(SW3520C)
(3+4)-Methylphenol	ND		0.10	mg/L	1	10/09/07 18:52
1,4-Dichlorobenzene	ND		0.10	mg/L	1	10/09/07 18:52
2,4,5-Trichlorophenol	ND		0.50	mg/L	1	10/09/07 18:52
2,4,6-Trichlorophenol	ND		0.10	mg/L	1	10/09/07 18:52
2,4-Dinitrotoluene	ND		0.10	mg/L	1	10/09/07 18:52
2-Methylphenol	ND		0.10	mg/L	1	10/09/07 18:52
Hexachlorobenzene	ND		0.10	mg/L	1	10/09/07 18:52
Hexachlorobutadiene	ND		0.10	mg/L	1	10/09/07 18:52
Hexachloroethane	ND		0.10	mg/L	1	10/09/07 18:52
Nitrobenzene	ND		0.10	mg/L	1	10/09/07 18:52
Pentachlorophenol	ND		0.50	mg/L	1	10/09/07 18:52
Pyridine	ND		0.10	mg/L	1	10/09/07 18:52
Surr: 2,4,6-Tribromophenol	112		46-149	%REC	1	10/09/07 18:52
Surr: 2-Fluorobiphenyl	95.0		42-130	%REC	1	10/09/07 18:52
Surr: 2-Fluorophenol	84.7		26-130	%REC	1	10/09/07 18:52
Surr: Nitrobenzene-d5	97.5		42-130	%REC	1	10/09/07 18:52
Surr: Phenol-d5	88.0		21-134	%REC	1	10/09/07 18:52
Surr: Terphenyl-d14	121		24-147	%REC	1	10/09/07 18:52

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710003
Matrix: SOIL
Inst. ID: MS05 26
ColumnID: DB-5MS
Revision: 10/10/07 15:02
Col Type:

Sample Size: 100 mL
%Moisture: 8.0
TestCode 8270L 1311

Lab ID: 0710003-002B
Client Sample ID: WCS-2
Collection Date: 09/28/07 14:45
Date Received: 09/28/07 15:45
PrepDate: 10/03/07 13:55
BatchNo: 6290/R11420
FileID: 1-SAMP-N8308.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
SEMI-VOLATILE ORGANICS COMPOUNDS IN TCLP BY GC/MS				SW8270C		(SW3520C)
(3+4)-Methylphenol	ND		0.10	mg/L	1	10/09/07 19:30
1,4-Dichlorobenzene	ND		0.10	mg/L	1	10/09/07 19:30
2,4,5-Trichlorophenol	ND		0.50	mg/L	1	10/09/07 19:30
2,4,6-Trichlorophenol	ND		0.10	mg/L	1	10/09/07 19:30
2,4-Dinitrotoluene	ND		0.10	mg/L	1	10/09/07 19:30
2-Methylphenol	ND		0.10	mg/L	1	10/09/07 19:30
Hexachlorobenzene	ND		0.10	mg/L	1	10/09/07 19:30
Hexachlorobutadiene	ND		0.10	mg/L	1	10/09/07 19:30
Hexachloroethane	ND		0.10	mg/L	1	10/09/07 19:30
Nitrobenzene	ND		0.10	mg/L	1	10/09/07 19:30
Pentachlorophenol	ND		0.50	mg/L	1	10/09/07 19:30
Pyridine	ND		0.10	mg/L	1	10/09/07 19:30
Surr: 2,4,6-Tribromophenol	114		46-149	%REC	1	10/09/07 19:30
Surr: 2-Fluorobiphenyl	92.2		42-130	%REC	1	10/09/07 19:30
Surr: 2-Fluorophenol	85.5		26-130	%REC	1	10/09/07 19:30
Surr: Nitrobenzene-d5	101		42-130	%REC	1	10/09/07 19:30
Surr: Phenol-d5	89.5		21-134	%REC	1	10/09/07 19:30
Surr: Terphenyl-d14	119		24-147	%REC	1	10/09/07 19:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710003

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 12.0

Revision: 10/02/07 8:14

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710003-001B

Client Sample ID: WCS-1

Collection Date: 09/28/07 14:45

Date Received: 09/28/07 15:45

PrepDate: 10/01/07 11:38

BatchNo: 6263/R11282

FileID: 1-SAMP-E:\Pkoc07\L100107.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1221	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1232	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1242	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1248	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1254	1.58		0.568	mg/Kg-dry	1	10/01/07 18:49
Aroclor 1260	ND		0.568	mg/Kg-dry	1	10/01/07 18:49
Surr: Tetrachloro-m-xylene	81.2		44-134	%REC	1	10/01/07 18:49
Surr: Decachlorobiphenyl	71.3		36-141	%REC	1	10/01/07 18:49

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710003

Matrix: SOIL

Inst. ID: GCPK 19L

ColumnID: DB-1701

Revision: 10/02/07 8:14

Col Type: Primary

Sample Size: 30 g

%Moisture: 8.0

TestCode 8082S3

Lab ID: 0710003-002B

Client Sample ID: WCS-2

Collection Date: 09/28/07 14:45

Date Received: 09/28/07 15:45

PrepDate: 10/01/07 11:38

BatchNo: 6263/R11282

FileID: 1-SAMP-E:\Pkoc07\L100108.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1221	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1232	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1242	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1248	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1254	85.1		10.9	mg/Kg-dry	20	10/01/07 19:20
Aroclor 1260	ND		10.9	mg/Kg-dry	20	10/01/07 19:20
Surr: Tetrachloro-m-xylene	120		44-134	%REC	20	10/01/07 19:20
Surr: Decachlorobiphenyl	110		36-141	%REC	20	10/01/07 19:20

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710003
Matrix: SOIL

Lab ID: 0710003-001B
Client Sample ID: WCS-1
Collection Date: 09/28/07 14:45
Date Received: 09/28/07 15:45

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
TCLP MERCURY					
Mercury	ND		SW1311/7470A 0.00040 mg/L	(SW7470A) 1	10/12/07 14:59
TCLP METALS BY ICP					
			SW6010B	(SW3010A)	
Arsenic	ND		0.50 mg/L	1	10/04/07 11:13
Barium	ND		0.50 mg/L	1	10/04/07 11:13
Cadmium	ND		0.10 mg/L	1	10/04/07 11:13
Chromium	ND		0.50 mg/L	1	10/04/07 11:13
Lead	ND		0.50 mg/L	1	10/04/07 11:13
Selenium	ND		0.10 mg/L	1	10/04/07 11:13
Silver	ND		0.50 mg/L	1	10/04/07 11:13

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710003
Matrix: SOIL

Lab ID: 0710003-002B
Client Sample ID: WCS-2
Collection Date: 09/28/07 14:45
Date Received: 09/28/07 15:45

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
TCLP MERCURY					
Mercury	ND		SW1311/7470A 0.00040 mg/L	(SW7470A) 1	10/12/07 15:06
TCLP METALS BY ICP					
			SW6010B	(SW3010A)	
Arsenic	ND		0.50 mg/L	1	10/04/07 11:41
Barium	1.2		0.50 mg/L	1	10/04/07 11:41
Cadmium	ND		0.10 mg/L	1	10/04/07 11:41
Chromium	ND		0.50 mg/L	1	10/04/07 11:41
Lead	ND		0.50 mg/L	1	10/04/07 11:41
Selenium	ND		0.10 mg/L	1	10/04/07 11:41
Silver	ND		0.50 mg/L	1	10/04/07 11:41

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710003
Matrix: SOIL

Lab ID: 0710003-001B
Client Sample ID: WCS-1
Collection Date: 09/28/07 14:45
Date Received: 09/28/07 15:45

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
IGNITABILITY OF SOLIDS					
Ignitability	ND		SW1030 0 mm/sec	1	10/03/07
LABORATORY (PH)					
pH	8.87		SW-846 9045C 1.00 pH Units	1	10/05/07 18:05
PERCENT MOISTURE					
Percent Moisture	12.0		SM 2540 G 1.0 wt%	1	10/01/07 18:15
TOTAL RELEASABLE CYANIDE					
Reactive Cyanide	ND		SW7.3.3.2 25 mg/Kg	1	(SW7.3.3.2) 10/05/07
TOTAL RELEASABLE SULFIDE					
Reactive Sulfide	ND		SW7.3.4.2 50 mg/Kg	1	(SW7.3.4.2) 10/08/07

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710003
Matrix: SOIL

Lab ID: 0710003-002B
Client Sample ID: WCS-2
Collection Date: 09/28/07 14:45
Date Received: 09/28/07 15:45

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
IGNITABILITY OF SOLIDS					
Ignitability	ND		0 mm/sec	1	10/03/07
LABORATORY (PH)					
pH	8.08		1.00 pH Units	1	10/05/07 18:05
PERCENT MOISTURE					
Percent Moisture	8.0		1.0 wt%	1	10/01/07 18:15
TOTAL RELEASABLE CYANIDE					
Reactive Cyanide	ND		25 mg/Kg	1	10/05/07 (SW7.3.3.2)
TOTAL RELEASABLE SULFIDE					
Reactive Sulfide	ND		50 mg/Kg	1	10/08/07 (SW7.3.4.2)

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: OBG						Analysis/Method						
Project: Utica Alloys												
Sampled by: Scott Tucker / Deb Weight						Ignitability	Corrosivity	Reactivity	PCBs (8082)	TCLP 8060, 8070, metals		
Client Contact: Scott Tucker Phone #												
Sample Description												
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers							Comments
WCS-1	9/28/07	1445	SO	6/c	2	X	X	X	X	X		
WCS-2	9/28/07	1445	SO	6/c	2	X	X	X	X	X		
Relinquished by: [Signature]						Received by:			Date: _____ Time: _____			
Relinquished by:						Received by:			Date: _____ Time: _____			
Relinquished by:						Received by Lab: Monika Panfuccei			Date: 9/28/07 Time: 3:45 pm			
Shipment Method:						Airbill Number:						

Turnaround Time Required:
 Routine
 Rush (Specify) **1hr**

Comments:

Cooler Temperature: **10.2°C - iced**

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received: **9/28/2007 3:45:00 PM**

Work Order Number **0710003**

Received by: **MS**

Checklist completed by:

Initials

10/1/07

Date

Reviewed by:

Initials

MS

9/28/07

Date

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Saturday, October 20, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710041

Dear Scott Tucker:

Life Science Laboratories, Inc. received 4 sample(s) on 10/4/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/11/07 12:43

Sample Size: 5 g

%Moisture: 17.3

TestCode 8260SM OLM42

Lab ID: 0710041-001A

Client Sample ID: Area-3-S

Collection Date: 10/04/07 10:30

Date Received: 10/04/07 16:20

PrepDate: 10/05/07 14:00

BatchNo: 6319/R11421

FileID: 1-SAMP-T0756.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		660	µg/Kg-dry	1	10/10/07 12:00
Chloromethane	ND		660	µg/Kg-dry	1	10/10/07 12:00
Vinyl chloride	950		660	µg/Kg-dry	1	10/10/07 12:00
Bromomethane	ND		660	µg/Kg-dry	1	10/10/07 12:00
Chloroethane	ND		660	µg/Kg-dry	1	10/10/07 12:00
Trichlorofluoromethane	ND		660	µg/Kg-dry	1	10/10/07 12:00
1,1-Dichloroethene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Acetone	ND		1300	µg/Kg-dry	1	10/10/07 12:00
Carbon disulfide	ND		330	µg/Kg-dry	1	10/10/07 12:00
Methyl acetate	ND		330	µg/Kg-dry	1	10/10/07 12:00
Methylene chloride	ND		660	µg/Kg-dry	1	10/10/07 12:00
trans-1,2-Dichloroethene	620		330	µg/Kg-dry	1	10/10/07 12:00
Methyl tert-butyl ether	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,1-Dichloroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
cis-1,2-Dichloroethene	20000		330	µg/Kg-dry	1	10/10/07 12:00
2-Butanone	ND		1300	µg/Kg-dry	1	10/10/07 12:00
Chloroform	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,1,1-Trichloroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Cyclohexane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Carbon tetrachloride	ND		330	µg/Kg-dry	1	10/10/07 12:00
Benzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,2-Dichloroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Trichloroethene	69000	E	330	µg/Kg-dry	1	10/10/07 12:00
Methylcyclohexane	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,2-Dichloropropane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Bromodichloromethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
cis-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	10/10/07 12:00
4-Methyl-2-pentanone	ND		660	µg/Kg-dry	1	10/10/07 12:00
Toluene	ND		330	µg/Kg-dry	1	10/10/07 12:00
trans-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,1,2-Trichloroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Tetrachloroethene	ND		330	µg/Kg-dry	1	10/10/07 12:00
2-Hexanone	ND		660	µg/Kg-dry	1	10/10/07 12:00

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/11/07 12:43

Col Type:

Sample Size: 5 g

%Moisture: 17.3

TestCode 8260SM OLM42

Lab ID: 0710041-001A

Client Sample ID: Area-3-S

Collection Date: 10/04/07 10:30

Date Received: 10/04/07 16:20

PrepDate: 10/05/07 14:00

BatchNo: 6319/R11421

FileID: 1-SAMP-T0756.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT			SW8260B			(SW5035_MED)
Dibromochloromethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,2-Dibromoethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
Chlorobenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
Ethylbenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
Xylenes (total)	ND		660	µg/Kg-dry	1	10/10/07 12:00
Styrene	ND		330	µg/Kg-dry	1	10/10/07 12:00
Bromoform	ND		330	µg/Kg-dry	1	10/10/07 12:00
Isopropylbenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,1,2,2-Tetrachloroethane	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,3-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,4-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,2-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/10/07 12:00
1,2-Dibromo-3-chloropropane	ND		660	µg/Kg-dry	1	10/10/07 12:00
1,2,4-Trichlorobenzene	ND		660	µg/Kg-dry	1	10/10/07 12:00
Surr: Dibromofluoromethane	72.6		40-156	%REC	1	10/10/07 12:00
Surr: 1,2-Dichloroethane-d4	85.4		71-128	%REC	1	10/10/07 12:00
Surr: Toluene-d8	74.2 S		75-125	%REC	1	10/10/07 12:00
Surr: 4-Bromofluorobenzene	72.4		59-125	%REC	1	10/10/07 12:00

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.3

Revision: 10/11/07 12:43

TestCode 8260SM OLM42

Lab ID: 0710041-001ADL

Client Sample ID: Area-3-S

Collection Date: 10/04/07 10:30

Date Received: 10/04/07 16:20

PrepDate: 10/05/07 14:00

BatchNo: 6319/R11421

FileID: 1-DL-T0758.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Chloromethane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Vinyl chloride	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Bromomethane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Chloroethane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Trichlorofluoromethane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
1,1-Dichloroethene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Acetone	ND		11000	µg/Kg-dry	8	10/10/07 13:08
Carbon disulfide	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Methyl acetate	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Methylene chloride	ND		5300	µg/Kg-dry	8	10/10/07 13:08
trans-1,2-Dichloroethene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Methyl tert-butyl ether	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,1-Dichloroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
cis-1,2-Dichloroethene	20000		2600	µg/Kg-dry	8	10/10/07 13:08
2-Butanone	ND		11000	µg/Kg-dry	8	10/10/07 13:08
Chloroform	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,1,1-Trichloroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Cyclohexane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Carbon tetrachloride	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Benzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,2-Dichloroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Trichloroethene	75000		2600	µg/Kg-dry	8	10/10/07 13:08
Methylcyclohexane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,2-Dichloropropane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Bromodichloromethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
cis-1,3-Dichloropropene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
4-Methyl-2-pentanone	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Toluene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
trans-1,3-Dichloropropene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,1,2-Trichloroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Tetrachloroethene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
2-Hexanone	ND		5300	µg/Kg-dry	8	10/10/07 13:08

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710041-001ADL
Project: Utica Alloy- IRM	Client Sample ID: Area-3-S
W Order: 0710041	Collection Date: 10/04/07 10:30
Matrix: SOIL	Date Received: 10/04/07 16:20
Inst. ID: MS01 11	PrepDate: 10/05/07 14:00
ColumnID: Rtx-VMS	BatchNo: 6319/R11421
Revision: 10/11/07 12:43	FileID: 1-DL-T0758.D
Col Type:	

Sample Size: 5 g
%Moisture: 17.3
TestCode: 8260SM OLM42

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,2-Dibromoethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Chlorobenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Ethylbenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Xylenes (total)	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Styrene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Bromofom	ND		2600	µg/Kg-dry	8	10/10/07 13:08
Isopropylbenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,1,2,2-Tetrachloroethane	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,3-Dichlorobenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,4-Dichlorobenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,2-Dichlorobenzene	ND		2600	µg/Kg-dry	8	10/10/07 13:08
1,2-Dibromo-3-chloropropane	ND		5300	µg/Kg-dry	8	10/10/07 13:08
1,2,4-Trichlorobenzene	ND		5300	µg/Kg-dry	8	10/10/07 13:08
Surr: Dibromofluoromethane	68.8		40-156	%REC	8	10/10/07 13:08
Surr: 1,2-Dichloroethane-d4	86.4		71-128	%REC	8	10/10/07 13:08
Surr: Toluene-d8	68.0 S		75-125	%REC	8	10/10/07 13:08
Surr: 4-Bromofluorobenzene	68.0		59-125	%REC	8	10/10/07 13:08

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 25.6

Revision: 10/18/07 9:12

TestCode 8260S OLM42

Lab ID: 0710041-002A

Client Sample ID: Area-3-N

Collection Date: 10/04/07 10:38

Date Received: 10/04/07 16:20

PrepDate:

BatchNo: R11448

FileID: 1-SAMP-J4809.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Chloromethane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Vinyl chloride	17		6.7	µg/Kg-dry	1	10/11/07 15:48
Bromomethane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Chloroethane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Trichlorofluoromethane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
1,1-Dichloroethene	5.1		3.4	µg/Kg-dry	1	10/11/07 15:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Acetone	ND		13	µg/Kg-dry	1	10/11/07 15:48
Carbon disulfide	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Methyl acetate	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Methylene chloride	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
trans-1,2-Dichloroethene	33		3.4	µg/Kg-dry	1	10/11/07 15:48
Methyl tert-butyl ether	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,1-Dichloroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
cis-1,2-Dichloroethene	2700 E		3.4	µg/Kg-dry	1	10/11/07 15:48
2-Butanone	ND		13	µg/Kg-dry	1	10/11/07 15:48
Chloroform	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,1,1-Trichloroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Cyclohexane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Carbon tetrachloride	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Benzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,2-Dichloroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Trichloroethene	3200 E		3.4	µg/Kg-dry	1	10/11/07 15:48
Methylcyclohexane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,2-Dichloropropane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Bromodichloromethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
cis-1,3-Dichloropropene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
4-Methyl-2-pentanone	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Toluene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
trans-1,3-Dichloropropene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,1,2-Trichloroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Tetrachloroethene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
2-Hexanone	ND		6.7	µg/Kg-dry	1	10/11/07 15:48

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/18/07 9:12

Col Type:

Sample Size: 5 g

%Moisture: 25.6

TestCode 8260S OLM42

Lab ID: 0710041-002A

Client Sample ID: Area-3-N

Collection Date: 10/04/07 10:38

Date Received: 10/04/07 16:20

PrepDate:

BatchNo: R11448

FileID: 1-SAMP-J4809.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,2-Dibromoethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Chlorobenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Ethylbenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Xylenes (total)	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Styrene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Bromoform	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
Isopropylbenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,1,2,2-Tetrachloroethane	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,3-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,4-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,2-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/11/07 15:48
1,2-Dibromo-3-chloropropane	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
1,2,4-Trichlorobenzene	ND		6.7	µg/Kg-dry	1	10/11/07 15:48
Surr: Dibromofluoromethane	116		40-156	%REC	1	10/11/07 15:48
Surr: 1,2-Dichloroethane-d4	113		71-128	%REC	1	10/11/07 15:48
Surr: Toluene-d8	88.9		75-125	%REC	1	10/11/07 15:48
Surr: 4-Bromofluorobenzene	76.4		59-125	%REC	1	10/11/07 15:48

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710041
Matrix: SOIL
Inst. ID: MS03 10
ColumnID: Rtx-VMS
Revision: 10/17/07 14:04
Col Type:

Sample Size: 5 g
%Moisture: 26.2
TestCode: 8260S OLM42

Lab ID: 0710041-003A
Client Sample ID: Area-2-S
Collection Date: 10/04/07 11:47
Date Received: 10/04/07 16:20
PrepDate:
BatchNo: R11467
FileID: 1-SAMP-J4834.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Chloromethane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Vinyl chloride	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Bromomethane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Chloroethane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Trichlorofluoromethane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
1,1-Dichloroethene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Acetone	ND		14	µg/Kg-dry	1	10/15/07 16:13
Carbon disulfide	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Methyl acetate	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Methylene chloride	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
trans-1,2-Dichloroethene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Methyl tert-butyl ether	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,1-Dichloroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
cis-1,2-Dichloroethene	34		3.4	µg/Kg-dry	1	10/15/07 16:13
2-Butanone	ND		14	µg/Kg-dry	1	10/15/07 16:13
Chloroform	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,1,1-Trichloroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Cyclohexane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Carbon tetrachloride	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Benzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,2-Dichloroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Trichloroethene	3400	E	3.4	µg/Kg-dry	1	10/15/07 16:13
Methylcyclohexane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,2-Dichloropropane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Bromodichloromethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
cis-1,3-Dichloropropene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
4-Methyl-2-pentanone	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Toluene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
trans-1,3-Dichloropropene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,1,2-Trichloroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Tetrachloroethene	4.1		3.4	µg/Kg-dry	1	10/15/07 16:13
2-Hexanone	ND		6.8	µg/Kg-dry	1	10/15/07 16:13

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710041

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 14:04

Col Type:

Sample Size: 5 g

%Moisture: 26.2

TestCode 8260S OLM42

Lab ID: 0710041-003A

Client Sample ID: Area-2-S

Collection Date: 10/04/07 11:47

Date Received: 10/04/07 16:20

PrepDate:

BatchNo: R11467

FileID: 1-SAMP-J4834.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,2-Dibromoethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Chlorobenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Ethylbenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Xylenes (total)	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Styrene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Bromoform	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
Isopropylbenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,1,2,2-Tetrachloroethane	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,3-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,4-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,2-Dichlorobenzene	ND		3.4	µg/Kg-dry	1	10/15/07 16:13
1,2-Dibromo-3-chloropropane	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
1,2,4-Trichlorobenzene	ND		6.8	µg/Kg-dry	1	10/15/07 16:13
Surr: Dibromofluoromethane	117		40-156	%REC	1	10/15/07 16:13
Surr: 1,2-Dichloroethane-d4	117		71-128	%REC	1	10/15/07 16:13
Surr: Toluene-d8	88.4		75-125	%REC	1	10/15/07 16:13
Surr: 4-Bromofluorobenzene	74.7		59-125	%REC	1	10/15/07 16:13

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710041
Matrix: SOIL
Inst. ID: GCPK 19L
ColumnID: DB-1701
Revision: 10/08/07 9:35
Col Type: Primary

Sample Size: 30 g
%Moisture: 31.3
TestCode 8082S3

Lab ID: 0710041-004A
Client Sample ID: Area-F-B3
Collection Date: 10/04/07 14:57
Date Received: 10/04/07 16:20
PrepDate: 10/05/07 8:24
BatchNo: 6307/R11387
FileID: 1-SAMP-E:\Pkoct07\100503.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1221	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1232	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1242	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1248	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1254	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Aroclor 1260	ND		0.728	mg/Kg-dry	1	10/05/07 10:56
Surr: Tetrachloro-m-xylene	65.2		44-134	%REC	1	10/05/07 10:56
Surr: Decachlorobiphenyl	64.3		36-141	%REC	1	10/05/07 10:56

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 09-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.
Lab Order: 0710041
Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-3-S	0710041-001B	wt%	10/4/2007	10/4/2007	10/5/2007	R11367	17.3
Area-3-N	0710041-002B	wt%	10/4/2007	10/4/2007	10/5/2007	R11367	25.6
Area-2-S	0710041-003B	wt%	10/4/2007	10/4/2007	10/5/2007	R11367	26.2
Area-F-B3	0710041-004A	wt%	10/4/2007	10/4/2007	10/5/2007	R11367	31.3



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE ENGINEERS						Analysis/Method										
Project: UTICA ALLOYS - IRM						VOCs	NO SOLIDS	PCBs								
Sampled by: ED RAHN																
Client Contact: DEB WRIGHT Phone # 437-6100																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers											Comments
AREA-3-S	10/4/07	1030	SOIL	GRAB	2	X	X									24 Hrs.
AREA-3-N	10/4/07	1038	SOIL	GRAB	2	X	X									Reg. > High
AREA-2-S	10/4/07	1147	SOIL	GRAB	2	X	X									Reg. PID
AREA-F-B3	10/4/07	1457	SOIL	GRAB	1			X								24 Hrs.
Relinquished by: Edwin B Rahn Date: 10/4/07 Time: 1620						Received by: Daniel D [Signature] Date: 10/4/07 Time: 16:20										
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: [Signature] Date: 10/4/07 Time: 1620										
Shipment Method: _____						Airbill Number: _____										

Turnaround Time Required: Comments:
 Routine ✓
 Rush (Specify) ✓ 24 Hr. > See Comments
 Cooler Temperature: 4° C

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received:

10/4/2007 4:20:00 PM

Work Order Number **0710041**

Received by: **ads**

Checklist completed by:



10/4/07

Reviewed by:



10/5/07

Initials

Date

Initials

Date

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Saturday, October 20, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710052

Dear Scott Tucker:

Life Science Laboratories, Inc. received 2 sample(s) on 10/5/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

A handwritten signature in cursive script that reads "Monika Santucci".

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/10/07 9:25

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode 8260W OLM42

Lab ID: 0710052-001A

Client Sample ID: *FracTank*

Collection Date: 10/05/07 9:48

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11408

FileID: 1-SAMP-T0741.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		1.00	µg/L	1	10/09/07 13:42
Chloromethane	ND		1.00	µg/L	1	10/09/07 13:42
Vinyl chloride	156	E	1.00	µg/L	1	10/09/07 13:42
Bromomethane	ND		1.00	µg/L	1	10/09/07 13:42
Chloroethane	ND		1.00	µg/L	1	10/09/07 13:42
Trichlorofluoromethane	ND		1.00	µg/L	1	10/09/07 13:42
1,1-Dichloroethene	8.55		0.50	µg/L	1	10/09/07 13:42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	µg/L	1	10/09/07 13:42
Acetone	ND		10.0	µg/L	1	10/09/07 13:42
Carbon disulfide	ND		0.50	µg/L	1	10/09/07 13:42
Methyl acetate	ND		0.50	µg/L	1	10/09/07 13:42
Methylene chloride	ND		2.00	µg/L	1	10/09/07 13:42
trans-1,2-Dichloroethene	11.4		0.50	µg/L	1	10/09/07 13:42
Methyl tert-butyl ether	0.86		0.50	µg/L	1	10/09/07 13:42
1,1-Dichloroethane	ND		0.50	µg/L	1	10/09/07 13:42
cis-1,2-Dichloroethene	513	E	0.50	µg/L	1	10/09/07 13:42
2-Butanone	ND		10.0	µg/L	1	10/09/07 13:42
Chloroform	ND		0.50	µg/L	1	10/09/07 13:42
1,1,1-Trichloroethane	ND		0.50	µg/L	1	10/09/07 13:42
Cyclohexane	ND		0.50	µg/L	1	10/09/07 13:42
Carbon tetrachloride	ND		0.50	µg/L	1	10/09/07 13:42
Benzene	1.33		0.50	µg/L	1	10/09/07 13:42
1,2-Dichloroethane	ND		0.50	µg/L	1	10/09/07 13:42
Trichloroethene	316	E	0.50	µg/L	1	10/09/07 13:42
Methylcyclohexane	ND		0.50	µg/L	1	10/09/07 13:42
1,2-Dichloropropane	ND		0.50	µg/L	1	10/09/07 13:42
Bromodichloromethane	ND		0.50	µg/L	1	10/09/07 13:42
cis-1,3-Dichloropropene	ND		0.50	µg/L	1	10/09/07 13:42
4-Methyl-2-pentanone	ND		5.00	µg/L	1	10/09/07 13:42
Toluene	3.65		0.50	µg/L	1	10/09/07 13:42
trans-1,3-Dichloropropene	ND		0.50	µg/L	1	10/09/07 13:42
1,1,2-Trichloroethane	ND		0.50	µg/L	1	10/09/07 13:42
Tetrachloroethene	ND		0.50	µg/L	1	10/09/07 13:42
2-Hexanone	ND		5.00	µg/L	1	10/09/07 13:42

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/10/07 9:25

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode 8260W OLM42

Lab ID: 0710052-001A

Client Sample ID: *FracTank*

Collection Date: 10/05/07 9:48

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11408

FileID: 1-SAMP-T0741.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		0.50	µg/L	1	10/09/07 13:42
1,2-Dibromoethane	ND		0.50	µg/L	1	10/09/07 13:42
Chlorobenzene	ND		0.50	µg/L	1	10/09/07 13:42
Ethylbenzene	ND		0.50	µg/L	1	10/09/07 13:42
Xylenes (total)	ND		1.00	µg/L	1	10/09/07 13:42
Styrene	ND		0.50	µg/L	1	10/09/07 13:42
Bromoform	ND		0.50	µg/L	1	10/09/07 13:42
Isopropylbenzene	ND		0.50	µg/L	1	10/09/07 13:42
1,1,2,2-Tetrachloroethane	ND		0.50	µg/L	1	10/09/07 13:42
1,3-Dichlorobenzene	ND		0.50	µg/L	1	10/09/07 13:42
1,4-Dichlorobenzene	ND		0.50	µg/L	1	10/09/07 13:42
1,2-Dichlorobenzene	ND		0.50	µg/L	1	10/09/07 13:42
1,2-Dibromo-3-chloropropane	ND		1.00	µg/L	1	10/09/07 13:42
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1	10/09/07 13:42
Surr: Dibromofluoromethane	103		75-127	%REC	1	10/09/07 13:42
Surr: 1,2-Dichloroethane-d4	109		75-134	%REC	1	10/09/07 13:42
Surr: Toluene-d8	101		75-125	%REC	1	10/09/07 13:42
Surr: 4-Bromofluorobenzene	92.9		75-125	%REC	1	10/09/07 13:42

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/10/07 9:25

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode 8260W OLM42

Lab ID: 0710052-001ADL

Client Sample ID: *FracTank*

Collection Date: 10/05/07 9:48

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11408

FileID: I-DL-T0748.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		50.0	µg/L	50	10/09/07 18:14
Chloromethane	ND		50.0	µg/L	50	10/09/07 18:14
Vinyl chloride	180		50.0	µg/L	50	10/09/07 18:14
Bromomethane	ND		50.0	µg/L	50	10/09/07 18:14
Chloroethane	ND		50.0	µg/L	50	10/09/07 18:14
Trichlorofluoromethane	ND		50.0	µg/L	50	10/09/07 18:14
1,1-Dichloroethene	ND		25.0	µg/L	50	10/09/07 18:14
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	µg/L	50	10/09/07 18:14
Acetone	ND		500	µg/L	50	10/09/07 18:14
Carbon disulfide	ND		25.0	µg/L	50	10/09/07 18:14
Methyl acetate	ND		25.0	µg/L	50	10/09/07 18:14
Methylene chloride	ND		100	µg/L	50	10/09/07 18:14
trans-1,2-Dichloroethene	ND		25.0	µg/L	50	10/09/07 18:14
Methyl tert-butyl ether	ND		25.0	µg/L	50	10/09/07 18:14
1,1-Dichloroethane	ND		25.0	µg/L	50	10/09/07 18:14
cis-1,2-Dichloroethene	2080	E	25.0	µg/L	50	10/09/07 18:14
2-Butanone	ND		500	µg/L	50	10/09/07 18:14
Chloroform	ND		25.0	µg/L	50	10/09/07 18:14
1,1,1-Trichloroethane	ND		25.0	µg/L	50	10/09/07 18:14
Cyclohexane	ND		25.0	µg/L	50	10/09/07 18:14
Carbon tetrachloride	ND		25.0	µg/L	50	10/09/07 18:14
Benzene	ND		25.0	µg/L	50	10/09/07 18:14
1,2-Dichloroethane	ND		25.0	µg/L	50	10/09/07 18:14
Trichloroethene	1060		25.0	µg/L	50	10/09/07 18:14
Methylcyclohexane	ND		25.0	µg/L	50	10/09/07 18:14
1,2-Dichloropropane	ND		25.0	µg/L	50	10/09/07 18:14
Bromodichloromethane	ND		25.0	µg/L	50	10/09/07 18:14
cis-1,3-Dichloropropene	ND		25.0	µg/L	50	10/09/07 18:14
4-Methyl-2-pentanone	ND		250	µg/L	50	10/09/07 18:14
Toluene	ND		25.0	µg/L	50	10/09/07 18:14
trans-1,3-Dichloropropene	ND		25.0	µg/L	50	10/09/07 18:14
1,1,2-Trichloroethane	ND		25.0	µg/L	50	10/09/07 18:14
Tetrachloroethene	ND		25.0	µg/L	50	10/09/07 18:14
2-Hexanone	ND		250	µg/L	50	10/09/07 18:14

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/10/07 9:25

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode 8260W OLM42

Lab ID: 0710052-001ADL

Client Sample ID: *FracTank*

Collection Date: 10/05/07 9:48

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11408

FileID: 1-DL-T0748.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		25.0	µg/L	50	10/09/07 18:14
1,2-Dibromoethane	ND		25.0	µg/L	50	10/09/07 18:14
Chlorobenzene	ND		25.0	µg/L	50	10/09/07 18:14
Ethylbenzene	ND		25.0	µg/L	50	10/09/07 18:14
Xylenes (total)	ND		50.0	µg/L	50	10/09/07 18:14
Styrene	ND		25.0	µg/L	50	10/09/07 18:14
Bromoform	ND		25.0	µg/L	50	10/09/07 18:14
Isopropylbenzene	ND		25.0	µg/L	50	10/09/07 18:14
1,1,2,2-Tetrachloroethane	ND		25.0	µg/L	50	10/09/07 18:14
1,3-Dichlorobenzene	ND		25.0	µg/L	50	10/09/07 18:14
1,4-Dichlorobenzene	ND		25.0	µg/L	50	10/09/07 18:14
1,2-Dichlorobenzene	ND		25.0	µg/L	50	10/09/07 18:14
1,2-Dibromo-3-chloropropane	ND		50.0	µg/L	50	10/09/07 18:14
1,2,4-Trichlorobenzene	ND		50.0	µg/L	50	10/09/07 18:14
Surr: Dibromofluoromethane	103		75-127	%REC	50	10/09/07 18:14
Surr: 1,2-Dichloroethane-d4	112		75-134	%REC	50	10/09/07 18:14
Surr: Toluene-d8	108		75-125	%REC	50	10/09/07 18:14
Surr: 4-Bromofluorobenzene	91.1		75-125	%REC	50	10/09/07 18:14

NOTES:

Cis-1,2-DCE exceeds the calibration range <5%

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/10/07 13:55

Col Type:

Sample Size: 5 g

%Moisture: 16.9

TestCode 8260S OLM42

Lab ID: 0710052-002A

Client Sample ID: Area-1-E4

Collection Date: 10/05/07 14:35

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11382

FileID: 1-SAMP-J4735.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dichlorodifluoromethane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Chloromethane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Vinyl chloride	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Bromomethane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Chloroethane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Trichlorofluoromethane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
1,1-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Acetone	ND		12	µg/Kg-dry	1	10/08/07 14:26
Carbon disulfide	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Methyl acetate	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Methylene chloride	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
trans-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Methyl tert-butyl ether	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,1-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
cis-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
2-Butanone	ND		12	µg/Kg-dry	1	10/08/07 14:26
Chloroform	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,1,1-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Cyclohexane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Carbon tetrachloride	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Benzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,2-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Trichloroethene	62		3.0	µg/Kg-dry	1	10/08/07 14:26
Methylcyclohexane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,2-Dichloropropane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Bromodichloromethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
cis-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
4-Methyl-2-pentanone	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Toluene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
trans-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,1,2-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Tetrachloroethene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
2-Hexanone	ND		6.0	µg/Kg-dry	1	10/08/07 14:26

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710052

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/10/07 13:55

Col Type:

Sample Size: 5 g

%Moisture: 16.9

TestCode 8260S OLM42

Lab ID: 0710052-002A

Client Sample ID: Area-1-E4

Collection Date: 10/05/07 14:35

Date Received: 10/05/07 16:00

PrepDate:

BatchNo: R11382

FileID: 1-SAMP-J4735.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,2-Dibromoethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Chlorobenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Ethylbenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Xylenes (total)	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Styrene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Bromoform	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
Isopropylbenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,1,2,2-Tetrachloroethane	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,3-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,4-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,2-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/08/07 14:26
1,2-Dibromo-3-chloropropane	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
1,2,4-Trichlorobenzene	ND		6.0	µg/Kg-dry	1	10/08/07 14:26
Surr: Dibromofluoromethane	99.2		40-156	%REC	1	10/08/07 14:26
Surr: 1,2-Dichloroethane-d4	96.7		71-128	%REC	1	10/08/07 14:26
Surr: Toluene-d8	106		75-125	%REC	1	10/08/07 14:26
Surr: 4-Bromofluorobenzene	99.1		59-125	%REC	1	10/08/07 14:26

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710052
Matrix: WATER

Lab ID: 0710052-001B
Client Sample ID: *FracTank*
Collection Date: 10/05/07 9:48
Date Received: 10/05/07 16:00

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
LABORATORY (PH)					
pH	7.89		EPA 150.1 1.00 pH Units	1	10/05/07 18:05
RESIDUE, SUSPENDED (TSS)					
Residue, Suspended (TSS)	9.5		EPA 160.2 5.0 mg/L	1	10/05/07 17:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710052
Matrix: SOIL

Lab ID: 0710052-002B
Client Sample ID: Area-1-E4
Collection Date: 10/05/07 14:35
Date Received: 10/05/07 16:00

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT MOISTURE			SM 2540 G			
Percent Moisture	16.9		1.0	wt%	1	10/05/07 12:00

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: O'BRIE & GERE ENGINEERS						Analysis/Method									
Project: UTICA ALLOYS						VOLs	TSS	PH	% SOLIDS						Comments
Sampled by: ED RAHN															
Client Contact: DEB WRIGHT Phone # 437-6100															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										
FRACTANK	10/5/07	0948	WATER	GRAB	4	X	X	X							3 days (Wed)
AREA-1-E4	10/5/07	1435	SOIL	GRAB	2	X			X						24 Hrs.
Relinquished by: Edwin B. Rahn						Date: 10/5/07		Time: 1600		Received by:				Date:	Time:
Relinquished by:						Date:		Time:		Received by:				Date:	Time:
Relinquished by:						Date:		Time:		Received by Lab: [Signature]				Date: 10/5/07	Time: 1600
Shipment Method:						Airbill Number:									

Turnaround Time Required: Comments:
 Routine
 Rush (Specify) ✓
 Cooler Temperature: 5.6°C on ice

Original - Laboratory
 Copy - Client



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057

(315) 437-0200

Monday, October 22, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710031

Dear Scott Tucker:

Life Science Laboratories, Inc. received 4 sample(s) on 10/3/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710031-001A
Project: Utica Alloy- IRM	Client Sample ID: Area-1-W2
W Order: 0710031	Collection Date: 10/03/07 9:12
Matrix: SOIL	Date Received: 10/03/07 16:40
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R11405
Revision: 10/12/07 10:25	FileID: 1-SAMP-J4781.D
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Chloromethane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Bromomethane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Chloroethane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
1,1-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Acetone	76		12	µg/Kg-dry	1	10/10/07 13:48
Carbon disulfide	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Methyl acetate	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Methylene chloride	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
trans-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Methyl tert-butyl ether	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,1-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
cis-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
2-Butanone	ND		12	µg/Kg-dry	1	10/10/07 13:48
Chloroform	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,1,1-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Cyclohexane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Carbon tetrachloride	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Benzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,2-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Trichloroethene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Methylcyclohexane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,2-Dichloropropane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Bromodichloromethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
cis-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Toluene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
trans-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,1,2-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Tetrachloroethene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/10/07 13:48

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Col Type:

Sample Size: 5 g

%Moisture: 15.9

TestCode 8260S OLM42

Lab ID: 0710031-001A

Client Sample ID: Area-1-W2

Collection Date: 10/03/07 9:12

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4781.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,2-Dibromoethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Chlorobenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Ethylbenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Xylenes (total)	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Styrene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Bromofom	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
Isopropylbenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,1,2,2-Tetrachloroethane	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,3-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,4-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,2-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/10/07 13:48
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/10/07 13:48
Surr: Dibromofluoromethane	107		40-156	%REC	1	10/10/07 13:48
Surr: 1,2-Dichloroethane-d4	102		71-128	%REC	1	10/10/07 13:48
Surr: Toluene-d8	93.4		75-125	%REC	1	10/10/07 13:48
Surr: 4-Bromofluorobenzene	78.4		59-125	%REC	1	10/10/07 13:48

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 14:04

Col Type:

Sample Size: 5 g

%Moisture: 15.9

TestCode 8260S OLM42

Lab ID: 0710031-001ARA

Client Sample ID: Area-1-W2

Collection Date: 10/03/07 9:12

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11467

FileID: 1-RA-J4832.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Chloromethane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Bromomethane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Chloroethane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
1,1-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Acetone	86		12	µg/Kg-dry	1	10/15/07 15:04
Carbon disulfide	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Methyl acetate	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Methylene chloride	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
trans-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Methyl tert-butyl ether	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,1-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
cis-1,2-Dichloroethene	3.6		3.0	µg/Kg-dry	1	10/15/07 15:04
2-Butanone	ND		12	µg/Kg-dry	1	10/15/07 15:04
Chloroform	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,1,1-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Cyclohexane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Carbon tetrachloride	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Benzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,2-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Trichloroethene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Methylcyclohexane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,2-Dichloropropane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Bromodichloromethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
cis-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Toluene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
trans-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,1,2-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Tetrachloroethene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/15/07 15:04

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710031-001ARA
Project: Utica Alloy- IRM	Client Sample ID: Area-1-W2
W Order: 0710031	Collection Date: 10/03/07 9:12
Matrix: SOIL	Date Received: 10/03/07 16:40
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R11467
Revision: 10/17/07 14:04	FileID: 1-RA-J4832.D
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,2-Dibromoethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Chlorobenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Ethylbenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Xylenes (total)	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Styrene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Bromoforn	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
Isopropylbenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,1,2,2-Tetrachloroethane	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,3-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,4-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,2-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/15/07 15:04
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/15/07 15:04
Surr: Dibromofluoromethane	107		40-156	%REC	1	10/15/07 15:04
Surr: 1,2-Dichloroethane-d4	101		71-128	%REC	1	10/15/07 15:04
Surr: Toluene-d8	97.5		75-125	%REC	1	10/15/07 15:04
Surr: 4-Bromofluorobenzene	82.0		59-125	%REC	1	10/15/07 15:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Col Type:

Sample Size: 5 g

%Moisture: 14.8

TestCode 8260S OLM42

Lab ID: 0710031-002A

Client Sample ID: Area-1-E3

Collection Date: 10/03/07 9:37

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4782.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Chloromethane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Bromomethane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Chloroethane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
1,1-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Acetone	ND		12	µg/Kg-dry	1	10/10/07 14:22
Carbon disulfide	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Methyl acetate	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Methylene chloride	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
trans-1,2-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Methyl tert-butyl ether	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,1-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
cis-1,2-Dichloroethene	4.6		2.9	µg/Kg-dry	1	10/10/07 14:22
2-Butanone	ND		12	µg/Kg-dry	1	10/10/07 14:22
Chloroform	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,1,1-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Cyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Carbon tetrachloride	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Benzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,2-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Trichloroethene	1500	E	2.9	µg/Kg-dry	1	10/10/07 14:22
Methylcyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,2-Dichloropropane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Bromodichloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
cis-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Toluene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
trans-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,1,2-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Tetrachloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/10/07 14:22

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Col Type:

Sample Size: 5 g

%Moisture: 14.8

TestCode 8260S OLM42

Lab ID: 0710031-002A

Client Sample ID: Area-1-E3

Collection Date: 10/03/07 9:37

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4782.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,2-Dibromoethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Chlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Ethylbenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Xylenes (total)	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Styrene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Bromoform	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
Isopropylbenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,1,2,2-Tetrachloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,3-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,4-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,2-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 14:22
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/10/07 14:22
Surr: Dibromofluoromethane	110		40-156	%REC	1	10/10/07 14:22
Surr: 1,2-Dichloroethane-d4	110		71-128	%REC	1	10/10/07 14:22
Surr: Toluene-d8	102		75-125	%REC	1	10/10/07 14:22
Surr: 4-Bromofluorobenzene	88.8		59-125	%REC	1	10/10/07 14:22

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710031-002ADL
Project: Utica Alloy- IRM	Client Sample ID: Area-1-E3
W Order: 0710031	Collection Date: 10/03/07 9:37
Matrix: SOIL	Date Received: 10/03/07 16:40
Inst. ID: MS01 11	PrepDate: 10/11/07 14:30
ColumnID: Rtx-VMS	BatchNo: 6357/R11519
Revision: 10/22/07 11:14	FileID: 1-DL-T0840.D
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Chloromethane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Vinyl chloride	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Bromomethane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Chloroethane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Trichlorofluoromethane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
1,1-Dichloroethene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Acetone	ND		2500	µg/Kg-dry	2	10/17/07 13:32
Carbon disulfide	ND		630	µg/Kg-dry	2	10/17/07 13:32
Methyl acetate	ND		630	µg/Kg-dry	2	10/17/07 13:32
Methylene chloride	ND		1300	µg/Kg-dry	2	10/17/07 13:32
trans-1,2-Dichloroethene	ND		630	µg/Kg-dry	2	10/17/07 13:32
Methyl tert-butyl ether	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,1-Dichloroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
cis-1,2-Dichloroethene	ND		630	µg/Kg-dry	2	10/17/07 13:32
2-Butanone	ND		2500	µg/Kg-dry	2	10/17/07 13:32
Chloroform	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,1,1-Trichloroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Cyclohexane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Carbon tetrachloride	ND		630	µg/Kg-dry	2	10/17/07 13:32
Benzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,2-Dichloroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Trichloroethene	54000	E	630	µg/Kg-dry	2	10/17/07 13:32
Methylcyclohexane	690		630	µg/Kg-dry	2	10/17/07 13:32
1,2-Dichloropropane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Bromodichloromethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
cis-1,3-Dichloropropene	ND		630	µg/Kg-dry	2	10/17/07 13:32
4-Methyl-2-pentanone	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Toluene	ND		630	µg/Kg-dry	2	10/17/07 13:32
trans-1,3-Dichloropropene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,1,2-Trichloroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Tetrachloroethene	ND		630	µg/Kg-dry	2	10/17/07 13:32
2-Hexanone	ND		1300	µg/Kg-dry	2	10/17/07 13:32

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710031-002ADL
Project: Utica Alloy- IRM	Client Sample ID: Area-1-E3
W Order: 0710031	Collection Date: 10/03/07 9:37
Matrix: SOIL	Date Received: 10/03/07 16:40
Inst. ID: MS01 11	Sample Size: 5 g
ColumnID: Rtx-VMS	%Moisture: 14.8
Revision: 10/22/07 11:14	TestCode: 8260SM OLM42
Col Type:	PrepDate: 10/11/07 14:30
	BatchNo: 6357/R11519
	FileID: 1-DL-T0840.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,2-Dibromoethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
Chlorobenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
Ethylbenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
Xylenes (total)	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Styrene	ND		630	µg/Kg-dry	2	10/17/07 13:32
Bromofom	ND		630	µg/Kg-dry	2	10/17/07 13:32
Isopropylbenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,1,2,2-Tetrachloroethane	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,3-Dichlorobenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,4-Dichlorobenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,2-Dichlorobenzene	ND		630	µg/Kg-dry	2	10/17/07 13:32
1,2-Dibromo-3-chloropropane	ND		1300	µg/Kg-dry	2	10/17/07 13:32
1,2,4-Trichlorobenzene	ND		1300	µg/Kg-dry	2	10/17/07 13:32
Surr: Dibromofluoromethane	85.0		40-156	%REC	2	10/17/07 13:32
Surr: 1,2-Dichloroethane-d4	110		71-128	%REC	2	10/17/07 13:32
Surr: Toluene-d8	103		75-125	%REC	2	10/17/07 13:32
Surr: 4-Bromofluorobenzene	98.0		59-125	%REC	2	10/17/07 13:32

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/19/07 14:15

Col Type:

Sample Size: 5 g

%Moisture: 14.8

TestCode 8260SM OLM42

Lab ID: 0710031-002ADL

Client Sample ID: Area-1-E3

Collection Date: 10/03/07 9:37

Date Received: 10/03/07 16:40

PrepDate: 10/11/07 14:30

BatchNo: 6357/R11538

FileID: 1-DL-T0870.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Chloromethane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Vinyl chloride	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Bromomethane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Chloroethane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Trichlorofluoromethane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
1,1-Dichloroethene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Acetone	ND	H	5000	µg/Kg-dry	4	10/18/07 19:52
Carbon disulfide	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Methyl acetate	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Methylene chloride	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
trans-1,2-Dichloroethene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Methyl tert-butyl ether	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,1-Dichloroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
cis-1,2-Dichloroethene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
2-Butanone	ND	H	5000	µg/Kg-dry	4	10/18/07 19:52
Chloroform	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,1,1-Trichloroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Cyclohexane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Carbon tetrachloride	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Benzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,2-Dichloroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Trichloroethene	64000	H	1300	µg/Kg-dry	4	10/18/07 19:52
Methylcyclohexane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,2-Dichloropropane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Bromodichloromethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
cis-1,3-Dichloropropene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
4-Methyl-2-pentanone	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Toluene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
trans-1,3-Dichloropropene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,1,2-Trichloroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Tetrachloroethene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
2-Hexanone	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/19/07 14:15

Col Type:

Sample Size: 5 g

%Moisture: 14.8

TestCode 8260SM OLM42

Lab ID: 0710031-002ADL

Client Sample ID: Area-1-E3

Collection Date: 10/03/07 9:37

Date Received: 10/03/07 16:40

PrepDate: 10/11/07 14:30

BatchNo: 6357/R11538

FileID: 1-DL-T0870.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,2-Dibromoethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Chlorobenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Ethylbenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Xylenes (total)	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Styrene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Bromoform	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
Isopropylbenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,1,2,2-Tetrachloroethane	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,3-Dichlorobenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,4-Dichlorobenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,2-Dichlorobenzene	ND	H	1300	µg/Kg-dry	4	10/18/07 19:52
1,2-Dibromo-3-chloropropane	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
1,2,4-Trichlorobenzene	ND	H	2500	µg/Kg-dry	4	10/18/07 19:52
Surr: Dibromofluoromethane	88.8	H	40-156	%REC	4	10/18/07 19:52
Surr: 1,2-Dichloroethane-d4	108	H	71-128	%REC	4	10/18/07 19:52
Surr: Toluene-d8	98.4	H	75-125	%REC	4	10/18/07 19:52
Surr: 4-Bromofluorobenzene	88.0	H	59-125	%REC	4	10/18/07 19:52

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/18/07 9:12

Col Type:

Sample Size: 5 g

%Moisture: 11.8

TestCode: 8260S OLM42

Lab ID: 0710031-003A

Client Sample ID: Area-2-N

Collection Date: 10/03/07 14:39

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11448

FileID: 1-SAMP-J4812.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Chloromethane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Vinyl chloride	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Bromomethane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Chloroethane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Trichlorofluoromethane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
1,1-Dichloroethene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Acetone	ND		11	µg/Kg-dry	1	10/11/07 17:33
Carbon disulfide	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Methyl acetate	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Methylene chloride	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
trans-1,2-Dichloroethene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Methyl tert-butyl ether	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,1-Dichloroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
cis-1,2-Dichloroethene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
2-Butanone	ND		11	µg/Kg-dry	1	10/11/07 17:33
Chloroform	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,1,1-Trichloroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Cyclohexane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Carbon tetrachloride	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Benzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,2-Dichloroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Trichloroethene	4.4		2.8	µg/Kg-dry	1	10/11/07 17:33
Methylcyclohexane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,2-Dichloropropane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Bromodichloromethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
cis-1,3-Dichloropropene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
4-Methyl-2-pentanone	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Toluene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
trans-1,3-Dichloropropene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,1,2-Trichloroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Tetrachloroethene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
2-Hexanone	ND		5.7	µg/Kg-dry	1	10/11/07 17:33

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/18/07 9:12

Col Type:

Sample Size: 5 g

%Moisture: 11.8

TestCode: 8260S OLM42

Lab ID: 0710031-003A

Client Sample ID: Area-2-N

Collection Date: 10/03/07 14:39

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11448

FileID: 1-SAMP-J4812.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,2-Dibromoethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Chlorobenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Ethylbenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Xylenes (total)	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Styrene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Bromoform	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
Isopropylbenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,1,2,2-Tetrachloroethane	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,3-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,4-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,2-Dichlorobenzene	ND		2.8	µg/Kg-dry	1	10/11/07 17:33
1,2-Dibromo-3-chloropropane	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
1,2,4-Trichlorobenzene	ND		5.7	µg/Kg-dry	1	10/11/07 17:33
Surr: Dibromofluoromethane	102		40-156	%REC	1	10/11/07 17:33
Surr: 1,2-Dichloroethane-d4	103		71-128	%REC	1	10/11/07 17:33
Surr: Toluene-d8	107		75-125	%REC	1	10/11/07 17:33
Surr: 4-Bromofluorobenzene	103		59-125	%REC	1	10/11/07 17:33

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Sample Size: 5 g

%Moisture: 14.6

TestCode 8260S OLM42

Lab ID: 0710031-004A

Client Sample ID: Area-2-E

Collection Date: 10/03/07 14:46

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11405

FileID: I-SAMP-J4784.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Chloromethane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Bromomethane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Chloroethane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
1,1-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Acetone	ND		12	µg/Kg-dry	1	10/10/07 15:31
Carbon disulfide	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Methyl acetate	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Methylene chloride	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
trans-1,2-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Methyl tert-butyl ether	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,1-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
cis-1,2-Dichloroethene	3.7		2.9	µg/Kg-dry	1	10/10/07 15:31
2-Butanone	ND		12	µg/Kg-dry	1	10/10/07 15:31
Chloroform	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,1,1-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Cyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Carbon tetrachloride	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Benzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,2-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Trichloroethene	280	E	2.9	µg/Kg-dry	1	10/10/07 15:31
Methylcyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,2-Dichloropropane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Bromodichloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
cis-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Toluene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
trans-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,1,2-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Tetrachloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/10/07 15:31

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Col Type:

Sample Size: 5 g

%Moisture: 14.6

TestCode 8260S OLM42

Lab ID: 0710031-004A

Client Sample ID: Area-2-E

Collection Date: 10/03/07 14:46

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4784.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,2-Dibromoethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Chlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Ethylbenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Xylenes (total)	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Styrene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Bromoform	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
Isopropylbenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,1,2,2-Tetrachloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,3-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,4-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,2-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 15:31
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/10/07 15:31
Surr: Dibromofluoromethane	103		40-156	%REC	1	10/10/07 15:31
Surr: 1,2-Dichloroethane-d4	106		71-128	%REC	1	10/10/07 15:31
Surr: Toluene-d8	114		75-125	%REC	1	10/10/07 15:31
Surr: 4-Bromofluorobenzene	100		59-125	%REC	1	10/10/07 15:31

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 8:23

Col Type:

Sample Size: 1 g

%Moisture: 14.6

TestCode: 8260S OLM42

Lab ID: 0710031-004ADL

Client Sample ID: Area-2-E

Collection Date: 10/03/07 14:46

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11508

FileID: 1-DL-J4849.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dichlorodifluoromethane	ND	29		µg/Kg-dry	5	10/16/07 12:45
Chloromethane	ND	29		µg/Kg-dry	5	10/16/07 12:45
Vinyl chloride	ND	29		µg/Kg-dry	5	10/16/07 12:45
Bromomethane	ND	29		µg/Kg-dry	5	10/16/07 12:45
Chloroethane	ND	29		µg/Kg-dry	5	10/16/07 12:45
Trichlorofluoromethane	ND	29		µg/Kg-dry	5	10/16/07 12:45
1,1-Dichloroethene	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Acetone	ND	59		µg/Kg-dry	5	10/16/07 12:45
Carbon disulfide	ND	15		µg/Kg-dry	5	10/16/07 12:45
Methyl acetate	ND	15		µg/Kg-dry	5	10/16/07 12:45
Methylene chloride	ND	29		µg/Kg-dry	5	10/16/07 12:45
trans-1,2-Dichloroethene	ND	15		µg/Kg-dry	5	10/16/07 12:45
Methyl tert-butyl ether	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,1-Dichloroethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
cis-1,2-Dichloroethene	ND	15		µg/Kg-dry	5	10/16/07 12:45
2-Butanone	ND	59		µg/Kg-dry	5	10/16/07 12:45
Chloroform	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,1,1-Trichloroethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Cyclohexane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Carbon tetrachloride	ND	15		µg/Kg-dry	5	10/16/07 12:45
Benzene	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,2-Dichloroethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Trichloroethene	480	15		µg/Kg-dry	5	10/16/07 12:45
Methylcyclohexane	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,2-Dichloropropane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Bromodichloromethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
cis-1,3-Dichloropropene	ND	15		µg/Kg-dry	5	10/16/07 12:45
4-Methyl-2-pentanone	ND	29		µg/Kg-dry	5	10/16/07 12:45
Toluene	ND	15		µg/Kg-dry	5	10/16/07 12:45
trans-1,3-Dichloropropene	ND	15		µg/Kg-dry	5	10/16/07 12:45
1,1,2-Trichloroethane	ND	15		µg/Kg-dry	5	10/16/07 12:45
Tetrachloroethene	ND	15		µg/Kg-dry	5	10/16/07 12:45
2-Hexanone	ND	29		µg/Kg-dry	5	10/16/07 12:45

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710031

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 8:23

Col Type:

Sample Size: 1 g

%Moisture: 14.6

TestCode 8260S OLM42

Lab ID: 0710031-004ADL

Client Sample ID: Area-2-E

Collection Date: 10/03/07 14:46

Date Received: 10/03/07 16:40

PrepDate:

BatchNo: R11508

FileID: 1-DL-J4849.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,2-Dibromoethane	ND		15	µg/Kg-dry	5	10/16/07 12:45
Chlorobenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
Ethylbenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
Xylenes (total)	ND		29	µg/Kg-dry	5	10/16/07 12:45
Styrene	ND		15	µg/Kg-dry	5	10/16/07 12:45
Bromoform	ND		15	µg/Kg-dry	5	10/16/07 12:45
Isopropylbenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,1,2,2-Tetrachloroethane	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,3-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,4-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,2-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/16/07 12:45
1,2-Dibromo-3-chloropropane	ND		29	µg/Kg-dry	5	10/16/07 12:45
1,2,4-Trichlorobenzene	ND		29	µg/Kg-dry	5	10/16/07 12:45
Surr: Dibromofluoromethane	99.7		40-156	%REC	5	10/16/07 12:45
Surr: 1,2-Dichloroethane-d4	102		71-128	%REC	5	10/16/07 12:45
Surr: Toluene-d8	111		75-125	%REC	5	10/16/07 12:45
Surr: 4-Bromofluorobenzene	104		59-125	%REC	5	10/16/07 12:45

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 09-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.

Lab Order: 0710031

Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-1-W2	0710031-001B	wt%	10/3/2007	10/3/2007	10/4/2007	R11355	15.9
Area-1-E3	0710031-002B	wt%	10/3/2007	10/3/2007	10/4/2007	R11355	14.8
Area-2-N	0710031-003B	wt%	10/3/2007	10/3/2007	10/4/2007	R11355	11.8
Area-2-E	0710031-004B	wt%	10/3/2007	10/3/2007	10/4/2007	R11355	14.6



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE ENGINEERS						Analysis/Method											
Project: UTICA ALLOYS - IRM						VOLs	% Solids										
Sampled by: ED RAHN																	
Client Contact: DEB WRIGHT Phone # 437-6100																	
Sample Description																	
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers											Comments	
AREA-1-W2	10/3/07	0912	SOIL	GRAB	2	X	X										
AREA-1-E3	10/3/07	0937	SOIL	GRAB	2	X	X										
AREA-2-N	10/3/07	1439	SOIL	GRAB	2	X	X										
AREA-2-E	10/3/07	1446	SOIL	GRAB	2	X	X										
Relinquished by: <i>Edwin B. Rahn</i>				Date: 10/3/07 Time: 1640		Received by:				Date:		Time:					
Relinquished by:				Date:		Time:		Received by:				Date:		Time:			
Relinquished by:				Date:		Time:		Received by Lab: <i>[Signature]</i>				Date: 10/3/07		Time: 1640			
Shipment Method:						Airbill Number:											

Turnaround Time Required:
 Routine _____
 Rush (Specify) _____

Comments:

Cooler Temperature: **7.4° C ON ICE**

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received: **10/3/2007 4:40:00 PM**

Work Order Number **0710031**

Received by: **ads**

Checklist completed by:

initials

Date

10/3/07

Reviewed by:

Initials

ms

Date

10/4/07

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Thursday, October 25, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710014

Dear Scott Tucker:

Life Science Laboratories, Inc. received 10 sample(s) on 10/1/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710014-001A
Project: Utica Alloy- IRM	Client Sample ID: Area-C-N2
W Order: 0710014	Collection Date: 10/01/07 10:28
Matrix: SOIL	Date Received: 10/01/07 16:20
Inst. ID: GCPK 19L	Sample Size: 30 g
ColumnID: DB-1701	%Moisture: 7.8
Revision: 10/03/07 9:49	TestCode: 8082S3
Col Type: Primary	PrepDate: 10/02/07 7:49
	BatchNo: 6276/R11308
	FileID: 1-SAMP-F:\Pkoc07\L100206.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1221	ND		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1232	ND		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1242	0.780		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1248	ND		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1254	4.49		0.542	mg/Kg-dry	1	10/02/07 13:59
Aroclor 1260	ND		0.542	mg/Kg-dry	1	10/02/07 13:59
Surr: Tetrachloro-m-xylene	85.3		44-134	%REC	1	10/02/07 13:59
Surr: Decachlorobiphenyl	82.7		36-141	%REC	1	10/02/07 13:59

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 17.7

Revision: 10/03/07 9:49

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710014-002A

Client Sample ID: Area-C-E2

Collection Date: 10/01/07 10:30

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11308

FileID: 1-SAMP-F:\Pkoct07\L100207.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1221	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1232	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1242	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1248	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1254	5.00		0.608	mg/Kg-dry	1	10/02/07 14:30
Aroclor 1260	ND		0.608	mg/Kg-dry	1	10/02/07 14:30
Surr: Tetrachloro-m-xylene	78.8		44-134	%REC	1	10/02/07 14:30
Surr: Decachlorobiphenyl	78.7		36-141	%REC	1	10/02/07 14:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 10.0

Revision: 10/04/07 12:16

TestCode 8082S3

Col Type: Primary

Lab ID: 0710014-003A

Client Sample ID: Area-C-S2

Collection Date: 10/01/07 10:33

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11312

FileID: 1-SAMP-F:\Pkcoct07\L100303.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1221	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1232	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1242	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1248	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1254	6.62		1.11	mg/Kg-dry	2	10/03/07 10:21
Aroclor 1260	ND		1.11	mg/Kg-dry	2	10/03/07 10:21
Surr: Tetrachloro-m-xylene	96.0		44-134	%REC	2	10/03/07 10:21
Surr: Decachlorobiphenyl	79.3		36-141	%REC	2	10/03/07 10:21

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710014-004A
Project: Utica Alloy- IRM	Client Sample ID: Area-C-W2
W Order: 0710014	Collection Date: 10/01/07 10:35
Matrix: SOIL	Date Received: 10/01/07 16:20
Inst. ID: GCPK 19L	Sample Size: 30 g
ColumnID: DB-1701	%Moisture: 12.0
Revision: 10/03/07 9:49	TestCode: 8082S3
Col Type: Primary	PrepDate: 10/02/07 7:49
	BatchNo: 6276/R11308
	FileID: 1-SAMP-F:\Pkoct07\L100209.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1221	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1232	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1242	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1248	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1254	0.675		0.568	mg/Kg-dry	1	10/02/07 15:31
Aroclor 1260	ND		0.568	mg/Kg-dry	1	10/02/07 15:31
Surr: Tetrachloro-m-xylene	97.2		44-134	%REC	1	10/02/07 15:31
Surr: Decachlorobiphenyl	74.0		36-141	%REC	1	10/02/07 15:31

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 12.6

Revision: 10/03/07 9:49

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710014-005A

Client Sample ID: Area-C-B2

Collection Date: 10/01/07 10:37

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11308

FileID: 1-SAMP-F:\Pkoct07\100210.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1221	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1232	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1242	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1248	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1254	3.40		0.572	mg/Kg-dry	1	10/02/07 16:02
Aroclor 1260	ND		0.572	mg/Kg-dry	1	10/02/07 16:02
Surr: Tetrachloro-m-xylene	75.8		44-134	%REC	1	10/02/07 16:02
Surr: Decachlorobiphenyl	68.7		36-141	%REC	1	10/02/07 16:02

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710014
Matrix: SOIL
Inst. ID: GCPK 19L
ColumnID: DB-1701
Revision: 10/03/07 9:49
Col Type: Primary

Sample Size: 30 g
%Moisture: 26.0
TestCode 8082S3

Lab ID: 0710014-006A
Client Sample ID: Area-B-B2
Collection Date: 10/01/07 11:22
Date Received: 10/01/07 16:20
PrepDate: 10/02/07 7:49
BatchNo: 6276/R11308
FileID: 1-SAMP-F:\Pkoct07\100211.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1221	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1232	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1242	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1248	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1254	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Aroclor 1260	ND		0.676	mg/Kg-dry	1	10/02/07 16:33
Surr: Tetrachloro-m-xylene	55.3		44-134	%REC	1	10/02/07 16:33
Surr: Decachlorobiphenyl	47.5		36-141	%REC	1	10/02/07 16:33

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 6.1

Revision: 10/03/07 9:49

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710014-007A

Client Sample ID: Area-A-N2

Collection Date: 10/01/07 11:34

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11308

FileID: 1-SAMP-F:\Pkoc07\100212.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1221	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1232	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1242	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1248	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1254	1.16		0.532	mg/Kg-dry	1	10/02/07 17:04
Aroclor 1260	ND		0.532	mg/Kg-dry	1	10/02/07 17:04
Surr: Tetrachloro-m-xylene	94.2		44-134	%REC	1	10/02/07 17:04
Surr: Decachlorobiphenyl	74.3		36-141	%REC	1	10/02/07 17:04

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 7.3

Revision: 10/03/07 9:49

TestCode: 8082S3

Col Type: Primary

Lab ID: 0710014-008A

Client Sample ID: Area-A-E2

Collection Date: 10/01/07 11:35

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11308

FileID: 1-SAMP-F:\Pkoct07\100213.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1221	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1232	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1242	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1248	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1254	1.13		0.539	mg/Kg-dry	1	10/02/07 17:34
Aroclor 1260	ND		0.539	mg/Kg-dry	1	10/02/07 17:34
Surr: Tetrachloro-m-xylene	84.8		44-134	%REC	1	10/02/07 17:34
Surr: Decachlorobiphenyl	69.3		36-141	%REC	1	10/02/07 17:34

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710014
Matrix: SOIL
Inst. ID: GCPK 19L
ColumnID: DB-1701
Revision: 10/03/07 9:49
Col Type: Primary

Sample Size: 30 g
%Moisture: 6.4
TestCode 8082S3

Lab ID: 0710014-009A
Client Sample ID: Area-A-S2
Collection Date: 10/01/07 11:38
Date Received: 10/01/07 16:20
PrepDate: 10/02/07 7:49
BatchNo: 6276/R11308
FileID: 1-SAMP-F:\Pkoct07\LI00214.rs

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1221	ND		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1232	ND		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1242	2.86		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1248	ND		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1254	1.40		0.534	mg/Kg-dry	1	10/02/07 18:05
Aroclor 1260	ND		0.534	mg/Kg-dry	1	10/02/07 18:05
Surr: Tetrachloro-m-xylene	96.5		44-134	%REC	1	10/02/07 18:05
Surr: Decachlorobiphenyl	73.7		36-141	%REC	1	10/02/07 18:05

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710014

Matrix: SOIL

Inst. ID: GCPK 19L

Sample Size: 30 g

ColumnID: DB-1701

%Moisture: 7.1

Revision: 10/03/07 9:49

TestCode 8082S3

Lab ID: 0710014-010A

Client Sample ID: Area-A-W2

Collection Date: 10/01/07 11:40

Date Received: 10/01/07 16:20

PrepDate: 10/02/07 7:49

BatchNo: 6276/R11308

FileID: 1-SAMP-F:\Pkoc07\100215.rs

Col Type: Primary

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3550B)
Aroclor 1016	ND		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1221	ND		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1232	ND		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1242	1.02		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1248	ND		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1254	2.16		0.538	mg/Kg-dry	1	10/02/07 18:36
Aroclor 1260	ND		0.538	mg/Kg-dry	1	10/02/07 18:36
Surr: Tetrachloro-m-xylene	90.5		44-134	%REC	1	10/02/07 18:36
Surr: Decachlorobiphenyl	71.2		36-141	%REC	1	10/02/07 18:36

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 03-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.
Lab Order: 0710014
Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-C-N2	0710014-001A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	7.80
Area-C-E2	0710014-002A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	17.7
Area-C-S2	0710014-003A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	10.0
Area-C-W2	0710014-004A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	12.0
Area-C-B2	0710014-005A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	12.6
Area-B-B2	0710014-006A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	26.0
Area-A-N2	0710014-007A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	6.10
Area-A-E2	0710014-008A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	7.30
Area-A-S2	0710014-009A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	6.40
Area-A-W2	0710014-010A	wt%	10/1/2007	10/1/2007	10/2/2007	R11317	7.10



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE ENGINEERS						Analysis/Method										
Project: UTICA ALLOYS - IRM						PCBs										
Sampled by: ED RAHN																
Client Contact: DEB WRIGHT Phone # 437-6100																
Sample Description																
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers											Comments
AREA-C-N2	10/1/07	1028	SOIL	GRAB	1	X										
AREA-C-E2	10/1/07	1030	SOIL	GRAB	1	X										
AREA-C-S2	10/1/07	1033	SOIL	GRAB	1	X										
AREA-C-W2	10/1/07	1035	SOIL	GRAB	1	X										
AREA-C-B2	10/1/07	1037	SOIL	GRAB	1	X										
AREA-B-B2	10/1/07	1122	SOIL	GRAB	1	X										
AREA-A-N2	10/1/07	1134	SOIL	GRAB	1	X										
AREA-A-E2	10/1/07	1135	SOIL	GRAB	1	X										
AREA-A-S2	10/1/07	1138	SOIL	GRAB	1	X										
AREA-A-W2	10/1/07	1140	SOIL	GRAB	1	X										
Relinquished by: <i>Edwin B. Rahn</i> Date: 10/1/07 Time: 1620						Received by:						Date:	Time:			
Relinquished by:						Received by:						Date:	Time:			
Relinquished by:						Received by Lab: <i>[Signature]</i>						Date: 10/1/07	Time: 1620			
Shipment Method:						Airbill Number:										

Turnaround Time Required:

Routine _____
 Rush (Specify) **24 HRS.**

Cooler Temperature: **9.4 °C on ICE**

Comments:

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received:

10/1/2007 4:20:00 PM

Work Order Number **0710014**

Received by: **ads**

Checklist completed by:

Initials

Date

10/1/07

Reviewed by:

Initials

MS

Date

10/2/07

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Tuesday, November 06, 2007

Scott Tucker

O'Brien & Gere Engineers, Inc.

5000 Brittonfield Parkway

PO Box 4873

Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710072

Dear Scott Tucker:

Life Science Laboratories, Inc. received 4 sample(s) on 10/10/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/25/07 6:07

Sample Size: 5 g

%Moisture: 14.9

TestCode 8260S OLM42

Lab ID: 0710072-001A

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11608

FileID: 1-SAMP-J4889.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Chloromethane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Bromomethane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Chloroethane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
1,1-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Acetone	ND		12	µg/Kg-dry	1	10/22/07 18:46
Carbon disulfide	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Methyl acetate	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Methylene chloride	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
trans-1,2-Dichloroethene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Methyl tert-butyl ether	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,1-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
cis-1,2-Dichloroethene	30		2.9	µg/Kg-dry	1	10/22/07 18:46
2-Butanone	ND		12	µg/Kg-dry	1	10/22/07 18:46
Chloroform	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,1,1-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Cyclohexane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Carbon tetrachloride	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Benzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,2-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Trichloroethene	1100	E	2.9	µg/Kg-dry	1	10/22/07 18:46
Methylcyclohexane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,2-Dichloropropane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Bromodichloromethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
cis-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Toluene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
trans-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,1,2-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Tetrachloroethene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/22/07 18:46

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/25/07 6:07

Sample Size: 5 g

%Moisture: 14.9

TestCode 8260S OLM42

Lab ID: 0710072-001A

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11608

FileID: 1-SAMP-J4889.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,2-Dibromoethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Chlorobenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Ethylbenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Xylenes (total)	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Styrene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Bromoform	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
Isopropylbenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,1,2,2-Tetrachloroethane	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,3-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,4-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,2-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/22/07 18:46
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/22/07 18:46
Surr: Dibromofluoromethane	95.5		40-156	%REC	1	10/22/07 18:46
Surr: 1,2-Dichloroethane-d4	91.3		71-128	%REC	1	10/22/07 18:46
Surr: Toluene-d8	96.3		75-125	%REC	1	10/22/07 18:46
Surr: 4-Bromofluorobenzene	82.7		59-125	%REC	1	10/22/07 18:46

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/01/07 13:47

Col Type:

Sample Size: 1 g

%Moisture: 14.9

TestCode 8260S OLM42

Lab ID: 0710072-001ADL

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-DL-J4904.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		29	µg/Kg-dry	5	10/23/07 15:36
Chloromethane	ND		29	µg/Kg-dry	5	10/23/07 15:36
Vinyl chloride	ND		29	µg/Kg-dry	5	10/23/07 15:36
Bromomethane	ND		29	µg/Kg-dry	5	10/23/07 15:36
Chloroethane	ND		29	µg/Kg-dry	5	10/23/07 15:36
Trichlorofluoromethane	ND		29	µg/Kg-dry	5	10/23/07 15:36
1,1-Dichloroethene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Acetone	ND		59	µg/Kg-dry	5	10/23/07 15:36
Carbon disulfide	ND		15	µg/Kg-dry	5	10/23/07 15:36
Methyl acetate	ND		15	µg/Kg-dry	5	10/23/07 15:36
Methylene chloride	ND		29	µg/Kg-dry	5	10/23/07 15:36
trans-1,2-Dichloroethene	ND		15	µg/Kg-dry	5	10/23/07 15:36
Methyl tert-butyl ether	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,1-Dichloroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
cis-1,2-Dichloroethene	53		15	µg/Kg-dry	5	10/23/07 15:36
2-Butanone	ND		59	µg/Kg-dry	5	10/23/07 15:36
Chloroform	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,1,1-Trichloroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Cyclohexane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Carbon tetrachloride	ND		15	µg/Kg-dry	5	10/23/07 15:36
Benzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,2-Dichloroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Trichloroethene	2900	E	15	µg/Kg-dry	5	10/23/07 15:36
Methylcyclohexane	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,2-Dichloropropane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Bromodichloromethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
cis-1,3-Dichloropropene	ND		15	µg/Kg-dry	5	10/23/07 15:36
4-Methyl-2-pentanone	ND		29	µg/Kg-dry	5	10/23/07 15:36
Toluene	ND		15	µg/Kg-dry	5	10/23/07 15:36
trans-1,3-Dichloropropene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,1,2-Trichloroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Tetrachloroethene	ND		15	µg/Kg-dry	5	10/23/07 15:36
2-Hexanone	ND		29	µg/Kg-dry	5	10/23/07 15:36

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/01/07 13:47

Col Type:

Sample Size: 1 g

%Moisture: 14.9

TestCode 8260S OLM42

Lab ID: 0710072-001ADL

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-DL-J4904.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,2-Dibromoethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
Chlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
Ethylbenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
Xylenes (total)	ND		29	µg/Kg-dry	5	10/23/07 15:36
Styrene	ND		15	µg/Kg-dry	5	10/23/07 15:36
Bromoform	ND		15	µg/Kg-dry	5	10/23/07 15:36
Isopropylbenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,1,2,2-Tetrachloroethane	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,3-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,4-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,2-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 15:36
1,2-Dibromo-3-chloropropane	ND		29	µg/Kg-dry	5	10/23/07 15:36
1,2,4-Trichlorobenzene	ND		29	µg/Kg-dry	5	10/23/07 15:36
Surr: Dibromofluoromethane	93.4		40-156	%REC	5	10/23/07 15:36
Surr: 1,2-Dichloroethane-d4	88.4		71-128	%REC	5	10/23/07 15:36
Surr: Toluene-d8	97.0		75-125	%REC	5	10/23/07 15:36
Surr: 4-Bromofluorobenzene	84.2		59-125	%REC	5	10/23/07 15:36

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 14.9

Revision: 10/29/07 10:33

TestCode 8260SM OLM42

Lab ID: 0710072-001ADL

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate: 10/24/07 11:00

BatchNo: 6446/R11627

FileID: 1-DL-T0930.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		630	µg/Kg-dry	1	10/24/07 15:18
Chloromethane	ND		630	µg/Kg-dry	1	10/24/07 15:18
Vinyl chloride	ND		630	µg/Kg-dry	1	10/24/07 15:18
Bromomethane	ND		630	µg/Kg-dry	1	10/24/07 15:18
Chloroethane	ND		630	µg/Kg-dry	1	10/24/07 15:18
Trichlorofluoromethane	ND		630	µg/Kg-dry	1	10/24/07 15:18
1,1-Dichloroethene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Acetone	ND		1300	µg/Kg-dry	1	10/24/07 15:18
Carbon disulfide	ND		320	µg/Kg-dry	1	10/24/07 15:18
Methyl acetate	ND		320	µg/Kg-dry	1	10/24/07 15:18
Methylene chloride	ND		630	µg/Kg-dry	1	10/24/07 15:18
trans-1,2-Dichloroethene	ND		320	µg/Kg-dry	1	10/24/07 15:18
Methyl tert-butyl ether	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,1-Dichloroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
cis-1,2-Dichloroethene	ND		320	µg/Kg-dry	1	10/24/07 15:18
2-Butanone	ND		1300	µg/Kg-dry	1	10/24/07 15:18
Chloroform	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,1,1-Trichloroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Cyclohexane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Carbon tetrachloride	ND		320	µg/Kg-dry	1	10/24/07 15:18
Benzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,2-Dichloroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Trichloroethene	8100		320	µg/Kg-dry	1	10/24/07 15:18
Methylcyclohexane	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,2-Dichloropropane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Bromodichloromethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
cis-1,3-Dichloropropene	ND		320	µg/Kg-dry	1	10/24/07 15:18
4-Methyl-2-pentanone	ND		630	µg/Kg-dry	1	10/24/07 15:18
Toluene	ND		320	µg/Kg-dry	1	10/24/07 15:18
trans-1,3-Dichloropropene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,1,2-Trichloroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Tetrachloroethene	ND		320	µg/Kg-dry	1	10/24/07 15:18
2-Hexanone	ND		630	µg/Kg-dry	1	10/24/07 15:18

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 14.9

Revision: 10/29/07 10:33

TestCode 8260SM OLM42

Lab ID: 0710072-001ADL

Client Sample ID: Area-2-Ext-N

Collection Date: 10/10/07 9:10

Date Received: 10/10/07 16:40

PrepDate: 10/24/07 11:00

BatchNo: 6446/R11627

FileID: 1-DL-T0930.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,2-Dibromoethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
Chlorobenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
Ethylbenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
Xylenes (total)	ND		630	µg/Kg-dry	1	10/24/07 15:18
Styrene	ND		320	µg/Kg-dry	1	10/24/07 15:18
Bromoform	ND		320	µg/Kg-dry	1	10/24/07 15:18
Isopropylbenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,1,2,2-Tetrachloroethane	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,3-Dichlorobenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,4-Dichlorobenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,2-Dichlorobenzene	ND		320	µg/Kg-dry	1	10/24/07 15:18
1,2-Dibromo-3-chloropropane	ND		630	µg/Kg-dry	1	10/24/07 15:18
1,2,4-Trichlorobenzene	ND		630	µg/Kg-dry	1	10/24/07 15:18
Surr: Dibromofluoromethane	115		40-156	%REC	1	10/24/07 15:18
Surr: 1,2-Dichloroethane-d4	129 S		71-128	%REC	1	10/24/07 15:18
Surr: Toluene-d8	130 S		75-125	%REC	1	10/24/07 15:18
Surr: 4-Bromofluorobenzene	123		59-125	%REC	1	10/24/07 15:18

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 7.8

Revision: 11/01/07 13:47

TestCode 8260S OLM42

Lab ID: 0710072-002A

Client Sample ID: Area-3-Ext-N

Collection Date: 10/10/07 13:41

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-SAMP-J4902.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Chloromethane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Vinyl chloride	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Bromomethane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Chloroethane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Trichlorofluoromethane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
1,1-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Acetone	ND		11	µg/Kg-dry	1	10/23/07 14:28
Carbon disulfide	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Methyl acetate	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Methylene chloride	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
trans-1,2-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Methyl tert-butyl ether	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,1-Dichloroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
cis-1,2-Dichloroethene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
2-Butanone	ND		11	µg/Kg-dry	1	10/23/07 14:28
Chloroform	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,1,1-Trichloroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Cyclohexane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Carbon tetrachloride	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Benzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,2-Dichloroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Trichloroethene	6.3		2.7	µg/Kg-dry	1	10/23/07 14:28
Methylcyclohexane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,2-Dichloropropane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Bromodichloromethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
cis-1,3-Dichloropropene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
4-Methyl-2-pentanone	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Toluene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
trans-1,3-Dichloropropene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,1,2-Trichloroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Tetrachloroethene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
2-Hexanone	ND		5.4	µg/Kg-dry	1	10/23/07 14:28

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 7.8

Revision: 11/01/07 13:47

TestCode: 8260S OLM42

Lab ID: 0710072-002A

Client Sample ID: Area-3-Ext-N

Collection Date: 10/10/07 13:41

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-SAMP-J4902.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dibromochloromethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,2-Dibromoethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Chlorobenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Ethylbenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Xylenes (total)	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Styrene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Bromoform	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
Isopropylbenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,1,2,2-Tetrachloroethane	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,3-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,4-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,2-Dichlorobenzene	ND		2.7	µg/Kg-dry	1	10/23/07 14:28
1,2-Dibromo-3-chloropropane	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
1,2,4-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	10/23/07 14:28
Surr: Dibromofluoromethane	88.3		40-156	%REC	1	10/23/07 14:28
Surr: 1,2-Dichloroethane-d4	88.3		71-128	%REC	1	10/23/07 14:28
Surr: Toluene-d8	112		75-125	%REC	1	10/23/07 14:28
Surr: 4-Bromofluorobenzene	88.6		59-125	%REC	1	10/23/07 14:28

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 24.6

Revision: 11/01/07 13:47

TestCode 8260S OLM42

Lab ID: 0710072-003A

Client Sample ID: Area-3-Ext-E

Collection Date: 10/10/07 13:43

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-SAMP-J4903.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dichlorodifluoromethane	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Chloromethane	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Vinyl chloride	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Bromomethane	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Chloroethane	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Trichlorofluoromethane	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
1,1-Dichloroethene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Acetone	ND		13	µg/Kg-dry	1	10/23/07 15:02
Carbon disulfide	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Methyl acetate	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Methylene chloride	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
trans-1,2-Dichloroethene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Methyl tert-butyl ether	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,1-Dichloroethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
cis-1,2-Dichloroethene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
2-Butanone	ND		13	µg/Kg-dry	1	10/23/07 15:02
Chloroform	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,1,1-Trichloroethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Cyclohexane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Carbon tetrachloride	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Benzene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,2-Dichloroethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Trichloroethene	650	E	3.3	µg/Kg-dry	1	10/23/07 15:02
Methylcyclohexane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,2-Dichloropropane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Bromodichloromethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
cis-1,3-Dichloropropene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
4-Methyl-2-pentanone	ND		6.6	µg/Kg-dry	1	10/23/07 15:02
Toluene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
trans-1,3-Dichloropropene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
1,1,2-Trichloroethane	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
Tetrachloroethene	ND		3.3	µg/Kg-dry	1	10/23/07 15:02
2-Hexanone	ND		6.6	µg/Kg-dry	1	10/23/07 15:02

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 24.6

Revision: 11/01/07 13:47

TestCode: 8260S OLM42

Lab ID: 0710072-003A

Client Sample ID: Area-3-Ext-E

Collection Date: 10/10/07 13:43

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-SAMP-J4903.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dibromochloromethane	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,2-Dibromoethane	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
Chlorobenzene	5.0	3.3		µg/Kg-dry	1	10/23/07 15:02
Ethylbenzene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
Xylenes (total)	ND	6.6		µg/Kg-dry	1	10/23/07 15:02
Styrene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
Bromoforn	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
Isopropylbenzene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,1,2,2-Tetrachloroethane	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,3-Dichlorobenzene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,4-Dichlorobenzene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,2-Dichlorobenzene	ND	3.3		µg/Kg-dry	1	10/23/07 15:02
1,2-Dibromo-3-chloropropane	ND	6.6		µg/Kg-dry	1	10/23/07 15:02
1,2,4-Trichlorobenzene	ND	6.6		µg/Kg-dry	1	10/23/07 15:02
Surr: Dibromofluoromethane	95.1	40-156		%REC	1	10/23/07 15:02
Surr: 1,2-Dichloroethane-d4	93.5	71-128		%REC	1	10/23/07 15:02
Surr: Toluene-d8	103	75-125		%REC	1	10/23/07 15:02
Surr: 4-Bromofluorobenzene	83.2	59-125		%REC	1	10/23/07 15:02

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710072
Matrix: SOIL
Inst. ID: MS03 10 **Sample Size:** 2.06 g
ColumnID: Rtx-VMS **%Moisture:** 24.6
Revision: 11/01/07 13:49 **TestCode** 8260S OLM42
Col Type:

Lab ID: 0710072-003ADL
Client Sample ID: Area-3-Ext-E
Collection Date: 10/10/07 13:43
Date Received: 10/10/07 16:40
PrepDate:
BatchNo: R11664
FileID: 1-DL-J4945.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Chloromethane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Vinyl chloride	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Bromomethane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Chloroethane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Trichlorofluoromethane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
1,1-Dichloroethene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Acetone	ND	H	32	µg/Kg-dry	2.43	10/26/07 6:52
Carbon disulfide	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Methyl acetate	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Methylene chloride	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
trans-1,2-Dichloroethene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Methyl tert-butyl ether	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,1-Dichloroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
cis-1,2-Dichloroethene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
2-Butanone	ND	H	32	µg/Kg-dry	2.43	10/26/07 6:52
Chloroform	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,1,1-Trichloroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Cyclohexane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Carbon tetrachloride	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Benzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,2-Dichloroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Trichloroethene	560	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Methylcyclohexane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,2-Dichloropropane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Bromodichloromethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
cis-1,3-Dichloropropene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
4-Methyl-2-pentanone	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Toluene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
trans-1,3-Dichloropropene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,1,2-Trichloroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Tetrachloroethene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
2-Hexanone	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/01/07 13:49

Col Type:

Sample Size: 2.06 g

%Moisture: 24.6

TestCode 8260S OLM42

Lab ID: 0710072-003ADL

Client Sample ID: Area-3-Ext-E

Collection Date: 10/10/07 13:43

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11664

FileID: 1-DL-J4945.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dibromochloromethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,2-Dibromoethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Chlorobenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Ethylbenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Xylenes (total)	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Styrene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Bromoform	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
Isopropylbenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,1,2,2-Tetrachloroethane	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,3-Dichlorobenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,4-Dichlorobenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,2-Dichlorobenzene	ND	H	8.1	µg/Kg-dry	2.43	10/26/07 6:52
1,2-Dibromo-3-chloropropane	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
1,2,4-Trichlorobenzene	ND	H	16	µg/Kg-dry	2.43	10/26/07 6:52
Surr: Dibromofluoromethane	94.6	H	40-156	%REC	2.43	10/26/07 6:52
Surr: 1,2-Dichloroethane-d4	95.4	H	71-128	%REC	2.43	10/26/07 6:52
Surr: Toluene-d8	101	H	75-125	%REC	2.43	10/26/07 6:52
Surr: 4-Bromofluorobenzene	89.3	H	59-125	%REC	2.43	10/26/07 6:52

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.9

Revision: 10/25/07 6:07

TestCode 8260S OLM42

Lab ID: 0710072-004A

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11608

FileID: I-SAMP-J4892.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Chloromethane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Vinyl chloride	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Bromomethane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Chloroethane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Trichlorofluoromethane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
1,1-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Acetone	ND		12	µg/Kg-dry	1	10/22/07 20:30
Carbon disulfide	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Methyl acetate	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Methylene chloride	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
trans-1,2-Dichloroethene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Methyl tert-butyl ether	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,1-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
cis-1,2-Dichloroethene	9.5		3.0	µg/Kg-dry	1	10/22/07 20:30
2-Butanone	ND		12	µg/Kg-dry	1	10/22/07 20:30
Chloroform	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,1,1-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Cyclohexane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Carbon tetrachloride	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Benzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,2-Dichloroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Trichloroethene	890 E		3.0	µg/Kg-dry	1	10/22/07 20:30
Methylcyclohexane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,2-Dichloropropane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Bromodichloromethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
cis-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
4-Methyl-2-pentanone	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Toluene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
trans-1,3-Dichloropropene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,1,2-Trichloroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Tetrachloroethene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
2-Hexanone	ND		6.1	µg/Kg-dry	1	10/22/07 20:30

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.9

Revision: 10/25/07 6:07

TestCode 8260S OLM42

Lab ID: 0710072-004A

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11608

FileID: 1-SAMP-J4892.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,2-Dibromoethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Chlorobenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Ethylbenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Xylenes (total)	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Styrene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Bromofom	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
Isopropylbenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,1,2,2-Tetrachloroethane	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,3-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,4-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,2-Dichlorobenzene	ND		3.0	µg/Kg-dry	1	10/22/07 20:30
1,2-Dibromo-3-chloropropane	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
1,2,4-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/22/07 20:30
Surr: Dibromofluoromethane	93.7		40-156	%REC	1	10/22/07 20:30
Surr: 1,2-Dichloroethane-d4	87.3		71-128	%REC	1	10/22/07 20:30
Surr: Toluene-d8	93.5		75-125	%REC	1	10/22/07 20:30
Surr: 4-Bromofluorobenzene	82.1		59-125	%REC	1	10/22/07 20:30

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 1 g

ColumnID: Rtx-VMS

%Moisture: 17.9

Revision: 11/01/07 13:47

TestCode: 8260S OLM42

Lab ID: 0710072-004ADL

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-DL-J4905.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		30	µg/Kg-dry	5	10/23/07 16:10
Chloromethane	ND		30	µg/Kg-dry	5	10/23/07 16:10
Vinyl chloride	ND		30	µg/Kg-dry	5	10/23/07 16:10
Bromomethane	ND		30	µg/Kg-dry	5	10/23/07 16:10
Chloroethane	ND		30	µg/Kg-dry	5	10/23/07 16:10
Trichlorofluoromethane	ND		30	µg/Kg-dry	5	10/23/07 16:10
1,1-Dichloroethene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Acetone	ND		61	µg/Kg-dry	5	10/23/07 16:10
Carbon disulfide	ND		15	µg/Kg-dry	5	10/23/07 16:10
Methyl acetate	ND		15	µg/Kg-dry	5	10/23/07 16:10
Methylene chloride	ND		30	µg/Kg-dry	5	10/23/07 16:10
trans-1,2-Dichloroethene	ND		15	µg/Kg-dry	5	10/23/07 16:10
Methyl tert-butyl ether	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,1-Dichloroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
cis-1,2-Dichloroethene	51		15	µg/Kg-dry	5	10/23/07 16:10
2-Butanone	ND		61	µg/Kg-dry	5	10/23/07 16:10
Chloroform	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,1,1-Trichloroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Cyclohexane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Carbon tetrachloride	ND		15	µg/Kg-dry	5	10/23/07 16:10
Benzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,2-Dichloroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Trichloroethene	6300	E	15	µg/Kg-dry	5	10/23/07 16:10
Methylcyclohexane	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,2-Dichloropropane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Bromodichloromethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
cis-1,3-Dichloropropene	ND		15	µg/Kg-dry	5	10/23/07 16:10
4-Methyl-2-pentanone	ND		30	µg/Kg-dry	5	10/23/07 16:10
Toluene	ND		15	µg/Kg-dry	5	10/23/07 16:10
trans-1,3-Dichloropropene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,1,2-Trichloroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Tetrachloroethene	ND		15	µg/Kg-dry	5	10/23/07 16:10
2-Hexanone	ND		30	µg/Kg-dry	5	10/23/07 16:10

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/01/07 13:47

Col Type:

Sample Size: 1 g

%Moisture: 17.9

TestCode 8260S OLM42

Lab ID: 0710072-004ADL

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate:

BatchNo: R11614

FileID: 1-DL-J4905.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,2-Dibromoethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
Chlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
Ethylbenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
Xylenes (total)	ND		30	µg/Kg-dry	5	10/23/07 16:10
Styrene	ND		15	µg/Kg-dry	5	10/23/07 16:10
Bromofom	ND		15	µg/Kg-dry	5	10/23/07 16:10
Isopropylbenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,1,2,2-Tetrachloroethane	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,3-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,4-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,2-Dichlorobenzene	ND		15	µg/Kg-dry	5	10/23/07 16:10
1,2-Dibromo-3-chloropropane	ND		30	µg/Kg-dry	5	10/23/07 16:10
1,2,4-Trichlorobenzene	ND		30	µg/Kg-dry	5	10/23/07 16:10
Surr: Dibromofluoromethane	95.7		40-156	%REC	5	10/23/07 16:10
Surr: 1,2-Dichloroethane-d4	92.1		71-128	%REC	5	10/23/07 16:10
Surr: Toluene-d8	94.5		75-125	%REC	5	10/23/07 16:10
Surr: 4-Bromofluorobenzene	79.0		59-125	%REC	5	10/23/07 16:10

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.9

Revision: 10/29/07 10:33

TestCode 8260SM OLM42

Lab ID: 0710072-004ADL

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate: 10/24/07 11:00

BatchNo: 6446/R11627

FileID: 1-DL-T0931.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		660	µg/Kg-dry	1	10/24/07 17:12
Chloromethane	ND		660	µg/Kg-dry	1	10/24/07 17:12
Vinyl chloride	ND		660	µg/Kg-dry	1	10/24/07 17:12
Bromomethane	ND		660	µg/Kg-dry	1	10/24/07 17:12
Chloroethane	ND		660	µg/Kg-dry	1	10/24/07 17:12
Trichlorofluoromethane	ND		660	µg/Kg-dry	1	10/24/07 17:12
1,1-Dichloroethene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Acetone	ND		1300	µg/Kg-dry	1	10/24/07 17:12
Carbon disulfide	ND		330	µg/Kg-dry	1	10/24/07 17:12
Methyl acetate	ND		330	µg/Kg-dry	1	10/24/07 17:12
Methylene chloride	ND		660	µg/Kg-dry	1	10/24/07 17:12
trans-1,2-Dichloroethene	ND		330	µg/Kg-dry	1	10/24/07 17:12
Methyl tert-butyl ether	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,1-Dichloroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
cis-1,2-Dichloroethene	ND		330	µg/Kg-dry	1	10/24/07 17:12
2-Butanone	ND		1300	µg/Kg-dry	1	10/24/07 17:12
Chloroform	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,1,1-Trichloroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Cyclohexane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Carbon tetrachloride	ND		330	µg/Kg-dry	1	10/24/07 17:12
Benzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,2-Dichloroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Trichloroethene	14000		330	µg/Kg-dry	1	10/24/07 17:12
Methylcyclohexane	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,2-Dichloropropane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Bromodichloromethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
cis-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	10/24/07 17:12
4-Methyl-2-pentanone	ND		660	µg/Kg-dry	1	10/24/07 17:12
Toluene	ND		330	µg/Kg-dry	1	10/24/07 17:12
trans-1,3-Dichloropropene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,1,2-Trichloroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Tetrachloroethene	ND		330	µg/Kg-dry	1	10/24/07 17:12
2-Hexanone	ND		660	µg/Kg-dry	1	10/24/07 17:12

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710072

Matrix: SOIL

Inst. ID: MS01 11

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 17.9

Revision: 10/29/07 10:33

TestCode 8260SM OLM42

Lab ID: 0710072-004ADL

Client Sample ID: Area-3-EXT-S

Collection Date: 10/10/07 13:48

Date Received: 10/10/07 16:40

PrepDate: 10/24/07 11:00

BatchNo: 6446/R11627

FileID: 1-DL-T0931.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,2-Dibromoethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
Chlorobenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
Ethylbenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
Xylenes (total)	ND		660	µg/Kg-dry	1	10/24/07 17:12
Styrene	ND		330	µg/Kg-dry	1	10/24/07 17:12
Bromoform	ND		330	µg/Kg-dry	1	10/24/07 17:12
Isopropylbenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,1,2,2-Tetrachloroethane	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,3-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,4-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,2-Dichlorobenzene	ND		330	µg/Kg-dry	1	10/24/07 17:12
1,2-Dibromo-3-chloropropane	ND		660	µg/Kg-dry	1	10/24/07 17:12
1,2,4-Trichlorobenzene	ND		660	µg/Kg-dry	1	10/24/07 17:12
Surr: Dibromofluoromethane	114		40-156	%REC	1	10/24/07 17:12
Surr: 1,2-Dichloroethane-d4	130 S		71-128	%REC	1	10/24/07 17:12
Surr: Toluene-d8	125		75-125	%REC	1	10/24/07 17:12
Surr: 4-Bromofluorobenzene	117		59-125	%REC	1	10/24/07 17:12

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 16-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.
Lab Order: 0710072
Project: Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-2-Ext-N	0710072-001B	wt%	10/10/2007	10/10/2007	10/12/2007	R11466	14.9
Area-3-Ext-N	0710072-002B	wt%	10/10/2007	10/10/2007	10/12/2007	R11466	7.80
Area-3-Ext-E	0710072-003B	wt%	10/10/2007	10/10/2007	10/12/2007	R11466	24.6
Area-3-EXT-S	0710072-004B	wt%	10/10/2007	10/10/2007	10/12/2007	R11466	17.9



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: <i>O'BRIEN & GERE ENGINEERS</i>						Analysis/Method												
Project: <i>UTICA ALLOYS</i>						VOCs	PH SOLIDS											
Sampled by: <i>ED RAHN</i>																		
Client Contact: <i>DEB WRIGHT</i> Phone # <i>437-6100</i>																		
Sample Description																		
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers													
<i>AREA-2-EXT-N</i>	<i>10/10/07</i>	<i>0910</i>	<i>SOIL</i>	<i>GRAB</i>	<i>2</i>	<i>X</i>	<i>X</i>											
<i>AREA-3-EXT-N</i>	<i>10/10/07</i>	<i>1341</i>	<i>SOIL</i>	<i>GRAB</i>	<i>2</i>	<i>X</i>	<i>X</i>											
<i>AREA-3-EXT-E</i>	<i>10/10/07</i>	<i>1343</i>	<i>SOIL</i>	<i>GRAB</i>	<i>2</i>	<i>X</i>	<i>X</i>											
<i>AREA-3-EXT-S</i>	<i>10/10/07</i>	<i>1348</i>	<i>SOIL</i>	<i>GRAB</i>	<i>2</i>	<i>X</i>	<i>X</i>											
Relinquished by: <i>Edwin B Rahn</i> Date: <i>10/10/07</i> Time: <i>1640</i>						Received by: _____ Date: _____ Time: _____												
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____												
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: <i>[Signature]</i> Date: <i>10/10/07</i> Time: <i>1640</i>												
Shipment Method: _____						Airbill Number: _____												

Turnaround Time Required:
 Routine _____
 Rush (Specify) _____

Comments:

Cooler Temperature: *4.2°C* and *ICE*

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: OBG-MS

Date and Time Received: 10/11/2007 4:40:00 PM

Work Order Number 0710072

Received by: ads

Checklist completed by: MS

Initials

10/11/07

Date

Reviewed by: MS

Initials

10/11/07

Date

Matrix:

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Comments:

Corrective Action::



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Tuesday, November 06, 2007

Scott Tucker
O'Brien & Gere Engineers, Inc.
5000 Brittonfield Parkway
PO Box 4873
Syracuse, NY 13221-4873

TEL:

Project: UTICA ALLOY- IRM

RE: Analytical Results

Order No.: 0710065

Dear Scott Tucker:

Life Science Laboratories, Inc. received 3 sample(s) on 10/9/2007 for the analyses presented in the following report.

Very truly yours,
Life Science Laboratories, Inc.

Monika Santucci
Project Manager



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Sample Size: 5 g

%Moisture: 13.4

TestCode 8260S OLM42

Lab ID: 0710065-001A

Client Sample ID: Area-2-Ext-W

Collection Date: 10/09/07 15:04

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4787.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Chloromethane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Vinyl chloride	130		5.8	µg/Kg-dry	1	10/10/07 17:14
Bromomethane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Chloroethane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
1,1-Dichloroethene	6.8		2.9	µg/Kg-dry	1	10/10/07 17:14
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Acetone	18		12	µg/Kg-dry	1	10/10/07 17:14
Carbon disulfide	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Methyl acetate	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Methylene chloride	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
trans-1,2-Dichloroethene	55		2.9	µg/Kg-dry	1	10/10/07 17:14
Methyl tert-butyl ether	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,1-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
cis-1,2-Dichloroethene	1500	E	2.9	µg/Kg-dry	1	10/10/07 17:14
2-Butanone	ND		12	µg/Kg-dry	1	10/10/07 17:14
Chloroform	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,1,1-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Cyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Carbon tetrachloride	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Benzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,2-Dichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Trichloroethene	670	E	2.9	µg/Kg-dry	1	10/10/07 17:14
Methylcyclohexane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,2-Dichloropropane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Bromodichloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
cis-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Toluene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
trans-1,3-Dichloropropene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,1,2-Trichloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Tetrachloroethene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/10/07 17:14

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/12/07 10:25

Col Type:

Sample Size: 5 g

%Moisture: 13.4

TestCode 8260S OLM42

Lab ID: 0710065-001A

Client Sample ID: Area-2-Ext-W

Collection Date: 10/09/07 15:04

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11405

FileID: 1-SAMP-J4787.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,2-Dibromoethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Chlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Ethylbenzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Xylenes (total)	18		5.8	µg/Kg-dry	1	10/10/07 17:14
Styrene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Bromoform	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
Isopropylbenzene	5.0		2.9	µg/Kg-dry	1	10/10/07 17:14
1,1,2,2-Tetrachloroethane	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,3-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,4-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,2-Dichlorobenzene	ND		2.9	µg/Kg-dry	1	10/10/07 17:14
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/10/07 17:14
Surr: Dibromofluoromethane	105		40-156	%REC	1	10/10/07 17:14
Surr: 1,2-Dichloroethane-d4	103		71-128	%REC	1	10/10/07 17:14
Surr: Toluene-d8	107		75-125	%REC	1	10/10/07 17:14
Surr: 4-Bromofluorobenzene	115		59-125	%REC	1	10/10/07 17:14

NOTES:

The associated continuing calibration verification standard exceeded the upper control limit for vinyl chloride. Sample result may be biased high.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 10/18/07 15:25

Sample Size: 5 g

%Moisture: 13.4

TestCode 8260SM OLM42

Lab ID: 0710065-001A

Client Sample ID: Area-2-Ext-W

Collection Date: 10/09/07 15:04

Date Received: 10/09/07 16:45

PrepDate: 10/11/07 14:30

BatchNo: 6357/R11536

FileID: 1-SAMP-M2910.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT						
				SW8260B		(SW5035_MED)
Dichlorodifluoromethane	ND		620	µg/Kg-dry	1	10/13/07 4:18
Chloromethane	ND		620	µg/Kg-dry	1	10/13/07 4:18
Vinyl chloride	ND		620	µg/Kg-dry	1	10/13/07 4:18
Bromomethane	ND		620	µg/Kg-dry	1	10/13/07 4:18
Chloroethane	ND		620	µg/Kg-dry	1	10/13/07 4:18
Trichlorofluoromethane	ND		620	µg/Kg-dry	1	10/13/07 4:18
1,1-Dichloroethene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Acetone	ND		1200	µg/Kg-dry	1	10/13/07 4:18
Carbon disulfide	ND		310	µg/Kg-dry	1	10/13/07 4:18
Methyl acetate	ND		310	µg/Kg-dry	1	10/13/07 4:18
Methylene chloride	ND		620	µg/Kg-dry	1	10/13/07 4:18
trans-1,2-Dichloroethene	ND		310	µg/Kg-dry	1	10/13/07 4:18
Methyl tert-butyl ether	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,1-Dichloroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
cis-1,2-Dichloroethene	6800		310	µg/Kg-dry	1	10/13/07 4:18
2-Butanone	ND		1200	µg/Kg-dry	1	10/13/07 4:18
Chloroform	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,1,1-Trichloroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Cyclohexane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Carbon tetrachloride	ND		310	µg/Kg-dry	1	10/13/07 4:18
Benzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,2-Dichloroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Trichloroethene	6700		310	µg/Kg-dry	1	10/13/07 4:18
Methylcyclohexane	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,2-Dichloropropane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Bromodichloromethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
cis-1,3-Dichloropropene	ND		310	µg/Kg-dry	1	10/13/07 4:18
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	1	10/13/07 4:18
Toluene	ND		310	µg/Kg-dry	1	10/13/07 4:18
trans-1,3-Dichloropropene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,1,2-Trichloroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Tetrachloroethene	ND		310	µg/Kg-dry	1	10/13/07 4:18
2-Hexanone	ND		620	µg/Kg-dry	1	10/13/07 4:18

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 10/18/07 15:25

Col Type:

Sample Size: 5 g

%Moisture: 13.4

TestCode 8260SM OLM42

Lab ID: 0710065-001A

Client Sample ID: Area-2-Ext-W

Collection Date: 10/09/07 15:04

Date Received: 10/09/07 16:45

PrepDate: 10/11/07 14:30

BatchNo: 6357/R11536

FileID: I-SAMP-M2910.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS - MEOH EXTRACT				SW8260B		(SW5035_MED)
Dibromochloromethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,2-Dibromoethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
Chlorobenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
Ethylbenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
Xylenes (total)	ND		620	µg/Kg-dry	1	10/13/07 4:18
Styrene	ND		310	µg/Kg-dry	1	10/13/07 4:18
Bromofom	ND		310	µg/Kg-dry	1	10/13/07 4:18
Isopropylbenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,1,2,2-Tetrachloroethane	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,3-Dichlorobenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,4-Dichlorobenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,2-Dichlorobenzene	ND		310	µg/Kg-dry	1	10/13/07 4:18
1,2-Dibromo-3-chloropropane	ND		620	µg/Kg-dry	1	10/13/07 4:18
1,2,4-Trichlorobenzene	ND		620	µg/Kg-dry	1	10/13/07 4:18
Surr: Dibromofluoromethane	78.7		40-156	%REC	1	10/13/07 4:18
Surr: 1,2-Dichloroethane-d4	80.1		71-128	%REC	1	10/13/07 4:18
Surr: Toluene-d8	83.4		75-125	%REC	1	10/13/07 4:18
Surr: 4-Bromofluorobenzene	83.9		59-125	%REC	1	10/13/07 4:18

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 14:04

Col Type:

Sample Size: 5 g

%Moisture: 19.8

TestCode 8260S OLM42

Lab ID: 0710065-002A

Client Sample ID: Area-2-Ext-E

Collection Date: 10/09/07 15:08

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11467

FileID: 1-SAMP-J4838.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			SW8260B			
Dichlorodifluoromethane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Chloromethane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Vinyl chloride	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Bromomethane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Chloroethane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Trichlorofluoromethane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
1,1-Dichloroethene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Acetone	ND		12	µg/Kg-dry	1	10/15/07 18:29
Carbon disulfide	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Methyl acetate	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Methylene chloride	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
trans-1,2-Dichloroethene	9.3		3.1	µg/Kg-dry	1	10/15/07 18:29
Methyl tert-butyl ether	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,1-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
cis-1,2-Dichloroethene	900 E		3.1	µg/Kg-dry	1	10/15/07 18:29
2-Butanone	ND		12	µg/Kg-dry	1	10/15/07 18:29
Chloroform	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,1,1-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Cyclohexane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Carbon tetrachloride	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Benzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,2-Dichloroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Trichloroethene	510 E		3.1	µg/Kg-dry	1	10/15/07 18:29
Methylcyclohexane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,2-Dichloropropane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Bromodichloromethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
cis-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
4-Methyl-2-pentanone	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Toluene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
trans-1,3-Dichloropropene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,1,2-Trichloroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Tetrachloroethene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
2-Hexanone	ND		6.2	µg/Kg-dry	1	10/15/07 18:29

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0710065
Matrix: SOIL
Inst. ID: MS03 10
ColumnID: Rtx-VMS
Revision: 10/17/07 14:04
Col Type:

Sample Size: 5 g
%Moisture: 19.8
TestCode 8260S OLM42

Lab ID: 0710065-002A
Client Sample ID: Area-2-Ext-E
Collection Date: 10/09/07 15:08
Date Received: 10/09/07 16:45
PrepDate:
BatchNo: R11467
FileID: 1-SAMP-J4838.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,2-Dibromoethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Chlorobenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Ethylbenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Xylenes (total)	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Styrene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Bromoform	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
Isopropylbenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,1,2,2-Tetrachloroethane	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,3-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,4-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,2-Dichlorobenzene	ND		3.1	µg/Kg-dry	1	10/15/07 18:29
1,2-Dibromo-3-chloropropane	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
1,2,4-Trichlorobenzene	ND		6.2	µg/Kg-dry	1	10/15/07 18:29
Surr: Dibromofluoromethane	106		40-156	%REC	1	10/15/07 18:29
Surr: 1,2-Dichloroethane-d4	103		71-128	%REC	1	10/15/07 18:29
Surr: Toluene-d8	104		75-125	%REC	1	10/15/07 18:29
Surr: 4-Bromofluorobenzene	90.4		59-125	%REC	1	10/15/07 18:29

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 8:23

Col Type:

Sample Size: 1 g

%Moisture: 19.8

TestCode 8260S OLM42

Lab ID: 0710065-002ADL

Client Sample ID: Area-2-Ext-E

Collection Date: 10/09/07 15:08

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11508

FileID: 1-DL-J4850.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dichlorodifluoromethane	ND	31		µg/Kg-dry	5	10/16/07 13:19
Chloromethane	ND	31		µg/Kg-dry	5	10/16/07 13:19
Vinyl chloride	ND	31		µg/Kg-dry	5	10/16/07 13:19
Bromomethane	ND	31		µg/Kg-dry	5	10/16/07 13:19
Chloroethane	ND	31		µg/Kg-dry	5	10/16/07 13:19
Trichlorofluoromethane	ND	31		µg/Kg-dry	5	10/16/07 13:19
1,1-Dichloroethene	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Acetone	ND	62		µg/Kg-dry	5	10/16/07 13:19
Carbon disulfide	ND	16		µg/Kg-dry	5	10/16/07 13:19
Methyl acetate	ND	16		µg/Kg-dry	5	10/16/07 13:19
Methylene chloride	ND	31		µg/Kg-dry	5	10/16/07 13:19
trans-1,2-Dichloroethene	ND	16		µg/Kg-dry	5	10/16/07 13:19
Methyl tert-butyl ether	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,1-Dichloroethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
cis-1,2-Dichloroethene	690	16		µg/Kg-dry	5	10/16/07 13:19
2-Butanone	ND	62		µg/Kg-dry	5	10/16/07 13:19
Chloroform	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,1,1-Trichloroethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Cyclohexane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Carbon tetrachloride	ND	16		µg/Kg-dry	5	10/16/07 13:19
Benzene	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,2-Dichloroethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Trichloroethene	410	16		µg/Kg-dry	5	10/16/07 13:19
Methylcyclohexane	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,2-Dichloropropane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Bromodichloromethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
cis-1,3-Dichloropropene	ND	16		µg/Kg-dry	5	10/16/07 13:19
4-Methyl-2-pentanone	ND	31		µg/Kg-dry	5	10/16/07 13:19
Toluene	ND	16		µg/Kg-dry	5	10/16/07 13:19
trans-1,3-Dichloropropene	ND	16		µg/Kg-dry	5	10/16/07 13:19
1,1,2-Trichloroethane	ND	16		µg/Kg-dry	5	10/16/07 13:19
Tetrachloroethene	ND	16		µg/Kg-dry	5	10/16/07 13:19
2-Hexanone	ND	31		µg/Kg-dry	5	10/16/07 13:19

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0710065-002ADL
Project: Utica Alloy- IRM	Client Sample ID: Area-2-Ext-E
W Order: 0710065	Collection Date: 10/09/07 15:08
Matrix: SOIL	Date Received: 10/09/07 16:45
Inst. ID: MS03 10	Sample Size: 1 g
ColumnID: Rtx-VMS	%Moisture: 19.8
Revision: 10/17/07 8:23	TestCode: 8260S OLM42
Col Type:	PrepDate:
	BatchNo: R11508
	FileID: 1-DL-J4850.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dibromochloromethane	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,2-Dibromoethane	ND		16	µg/Kg-dry	5	10/16/07 13:19
Chlorobenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
Ethylbenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
Xylenes (total)	ND		31	µg/Kg-dry	5	10/16/07 13:19
Styrene	ND		16	µg/Kg-dry	5	10/16/07 13:19
Bromoform	ND		16	µg/Kg-dry	5	10/16/07 13:19
Isopropylbenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,1,2,2-Tetrachloroethane	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,3-Dichlorobenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,4-Dichlorobenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,2-Dichlorobenzene	ND		16	µg/Kg-dry	5	10/16/07 13:19
1,2-Dibromo-3-chloropropane	ND		31	µg/Kg-dry	5	10/16/07 13:19
1,2,4-Trichlorobenzene	ND		31	µg/Kg-dry	5	10/16/07 13:19
Surr: Dibromofluoromethane	105		40-156	%REC	5	10/16/07 13:19
Surr: 1,2-Dichloroethane-d4	101		71-128	%REC	5	10/16/07 13:19
Surr: Toluene-d8	104		75-125	%REC	5	10/16/07 13:19
Surr: 4-Bromofluorobenzene	102		59-125	%REC	5	10/16/07 13:19

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 10/17/07 14:04

Col Type:

Sample Size: 5 g

%Moisture: 23.0

TestCode 8260S OLM42

Lab ID: 0710065-003A

Client Sample ID: Area-2-Ext-S

Collection Date: 10/09/07 15:13

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11467

FileID: 1-SAMP-J4835.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B		
Dichlorodifluoromethane	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
Chloromethane	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
Vinyl chloride	17		6.5	µg/Kg-dry	1	10/15/07 16:47
Bromomethane	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
Chloroethane	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
Trichlorofluoromethane	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
1,1-Dichloroethene	10		3.2	µg/Kg-dry	1	10/15/07 16:47
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Acetone	ND		13	µg/Kg-dry	1	10/15/07 16:47
Carbon disulfide	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Methyl acetate	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Methylene chloride	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
trans-1,2-Dichloroethene	38		3.2	µg/Kg-dry	1	10/15/07 16:47
Methyl tert-butyl ether	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
1,1-Dichloroethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
cis-1,2-Dichloroethene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
2-Butanone	ND		13	µg/Kg-dry	1	10/15/07 16:47
Chloroform	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
1,1,1-Trichloroethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Cyclohexane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Carbon tetrachloride	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Benzene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
1,2-Dichloroethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Trichloroethene	4700	E	3.2	µg/Kg-dry	1	10/15/07 16:47
Methylcyclohexane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
1,2-Dichloropropane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Bromodichloromethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
cis-1,3-Dichloropropene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
4-Methyl-2-pentanone	ND		6.5	µg/Kg-dry	1	10/15/07 16:47
Toluene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
trans-1,3-Dichloropropene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
1,1,2-Trichloroethane	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
Tetrachloroethene	ND		3.2	µg/Kg-dry	1	10/15/07 16:47
2-Hexanone	ND		6.5	µg/Kg-dry	1	10/15/07 16:47

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0710065

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 23.0

Revision: 10/17/07 14:04

TestCode 8260S OLM42

Lab ID: 0710065-003A

Client Sample ID: Area-2-Ext-S

Collection Date: 10/09/07 15:13

Date Received: 10/09/07 16:45

PrepDate:

BatchNo: R11467

FileID: 1-SAMP-J4835.D

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Dibromochloromethane	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,2-Dibromoethane	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
Chlorobenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
Ethylbenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
Xylenes (total)	ND	6.5		µg/Kg-dry	1	10/15/07 16:47
Styrene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
Bromoform	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
Isopropylbenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,1,2,2-Tetrachloroethane	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,3-Dichlorobenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,4-Dichlorobenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,2-Dichlorobenzene	ND	3.2		µg/Kg-dry	1	10/15/07 16:47
1,2-Dibromo-3-chloropropane	ND	6.5		µg/Kg-dry	1	10/15/07 16:47
1,2,4-Trichlorobenzene	ND	6.5		µg/Kg-dry	1	10/15/07 16:47
Surr: Dibromofluoromethane	120	40-156		%REC	1	10/15/07 16:47
Surr: 1,2-Dichloroethane-d4	117	71-128		%REC	1	10/15/07 16:47
Surr: Toluene-d8	84.6	75-125		%REC	1	10/15/07 16:47
Surr: 4-Bromofluorobenzene	72.2	59-125		%REC	1	10/15/07 16:47

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

Date: 12-Oct-07

CLIENT: O'Brien & Gere Engineers, Inc.**Lab Order:** 0710065**Project:** Utica Alloy- IRM

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
Area-2-Ext-W	0710065-001B	wt%	10/9/2007	10/9/2007	10/10/2007	R11422	13.4
Area-2-Ext-E	0710065-002B	wt%	10/9/2007	10/9/2007	10/10/2007	R11422	19.8
Area-2-Ext-S	0710065-003B	wt%	10/9/2007	10/9/2007	10/10/2007	R11422	23.0



Life Science Laboratories, Inc.
Brittonfield Lab

5000 Brittonfield Parkway, Suite 200
 East Syracuse, New York 13057
 (315) 437-0200

Chain of Custody

Client: <u>D'BRIEN & GERE ENGINEERS</u>						Analysis/Method									
Project: <u>UTICA ALLOYS - IRM</u>						VOCs	% Solids								
Sampled by: <u>ED RAHN</u>															
Client Contact: <u>DEB WRIGHT</u> Phone # <u>437-6100</u>															
Sample Description															
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										Comments
AREA-2-EXT-N	10/9/07	1457	SOIL	GRAB	2	X	X								
AREA-2-EXT-W	10/9/07	1504	SOIL	GRAB	2	X	X								24 Hrs.
AREA-2-EXT-E	10/9/07	1508	SOIL	GRAB	2	X	X								} Reg.
AREA-2-EXT-S	10/9/07	1513	SOIL	GRAB	2	X	X								
Relinquished by: <u>Edwin B Rahn</u> Date: <u>10/9/07</u> Time: <u>1645</u>						Received by: _____ Date: _____ Time: _____									
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____									
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: <u>[Signature]</u> Date: <u>10/9/07</u> Time: <u>1645</u>									
Shipment Method: _____						Airbill Number: _____									

Turnaround Time Required:
 Routine
 Rush (Specify) ✓ 24 Hrs.

Comments:

Cooler Temperature: 16.8 °C ON ICE

Original - Laboratory
 Copy - Client

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **OBG-MS**

Date and Time Received:

10/9/2007 4:45:00 PM

Work Order Number **0710065**

Received by: **ads**

Checklist completed by:

Initials

Date

10/9/07

Reviewed by:

MS

Initials

10/10/07

Date

Matrix:

Carrier name: Hand Delivered

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Comments:

Corrective Action::

Appendix B
Excavation Coordinates

Appendix D
 PCB Area Excavation Coordinates
 Utica Alloys (Site No. 633047)
 Utica, NY

Area	X-Coordinate	Y-Coordinate
AREA A	1186099.00856000000	1134105.00024000000
AREA A	1186093.64398000000	1134092.06158000000
AREA A	1186082.61353000000	1134096.69697000000
AREA A	1186082.90096000000	1134102.35628000000
AREA A	1186086.23987000000	1134110.34742000000
AREA B	1186102.68106000000	1134060.51619000000
AREA B	1186093.43503000000	1134064.32551000000
AREA B	1186097.24436000000	1134073.57154000000
AREA B	1186106.49039000000	1134069.76221000000
AREA C	1186068.50819000000	1133983.52557000000
AREA C	1186067.76732000000	1133981.69212000000
AREA C	1186064.52450000000	1133983.00682000000
AREA C	1186055.28447000000	1133986.83083000000
AREA C	1186052.03847000000	1133988.14453000000
AREA C	1186052.79553000000	1133990.02073000000
AREA C	1186056.62136000000	1133999.26163000000
AREA C	1186057.36496000000	1134001.09186000000
AREA C	1186060.61056000000	1133999.77890000000
AREA C	1186069.84910000000	1133995.95188000000
AREA C	1186073.08435000000	1133994.61637000000
AREA C	1186072.34259000000	1133992.78558000000
AREA D	1186048.60361000000	1133958.21598000000
AREA D	1186035.59235000000	1133963.62738000000
AREA D	1186041.02712000000	1133976.50833000000
AREA D	1186053.96819000000	1133971.15464000000
AREA E	1185996.07470000000	1133985.53850000000
AREA E	1185986.83553000000	1133989.36443000000
AREA E	1185990.66146000000	1133998.60360000000
AREA E	1185999.90063000000	1133994.77767000000
AREA F	1185921.97802000000	1134012.09576000000
AREA F	1185912.73885000000	1134015.92169000000
AREA F	1185916.56478000000	1134025.16086000000
AREA F	1185925.80395000000	1134021.33493000000
AREA G	1185863.91853000000	1134029.17884000000
AREA G	1185876.98363000000	1134034.59208000000
AREA G	1185867.74446000000	1134038.41801000000
AREA G	1185873.15770000000	1134025.35291000000

Notes:

- Coordinate System is in NAD 1983 State Plane New York
 Central FIPS 3102 Feet

Appendix D
TCE Area Excavation Coordinates
Utica Alloys (Site No. 633047)
Utica, NY

Area	X-Coordinate	Y-Coordinate
AREA 1	1186048.40202000000	1134356.32872000000
AREA 1	1186041.09927000000	1134344.72676000000
AREA 1	1186036.94822000000	1134337.70015000000
AREA 1	1186037.41114000000	1134337.08263000000
AREA 1	1186037.33383000000	1134336.54241000000
AREA 1	1186037.20185000000	1134335.16689000000
AREA 1	1186036.65221000000	1134333.81870000000
AREA 1	1186036.00735000000	1134332.93813000000
AREA 1	1186034.89958000000	1134332.67509000000
AREA 1	1186034.28677000000	1134332.92492000000
AREA 1	1186033.91908000000	1134333.07483000000
AREA 1	1186033.30627000000	1134333.32466000000
AREA 1	1186032.93858000000	1134333.47456000000
AREA 1	1186032.59352000000	1134333.32937000000
AREA 1	1186030.90878000000	1134331.30048000000
AREA 1	1186030.48641000000	1134330.61508000000
AREA 1	1186029.76896000000	1134329.90704000000
AREA 1	1186028.39343000000	1134330.03902000000
AREA 1	1186028.22090000000	1134329.96643000000
AREA 1	1186027.65806000000	1134330.33882000000
AREA 1	1186027.26774000000	1134330.78382000000
AREA 1	1186027.24982000000	1134331.79165000000
AREA 1	1186027.44969000000	1134332.28190000000
AREA 1	1186027.30921000000	1134333.33971000000
AREA 1	1186026.65114000000	1134334.17973000000
AREA 1	1186017.22796000000	1134340.16542000000
AREA 1	1186033.10055000000	1134365.42557000000
AREA 1	1186048.40202000000	1134356.32872000000
AREA 2	1186012.41447000000	1134277.52199000000
AREA 2	1186006.15908000000	1134279.35756000000
AREA 2	1185998.13785000000	1134281.77010000000
AREA 2	1185997.22523000000	1134281.28456000000
AREA 2	1185996.23531000000	1134280.25880000000
AREA 2	1185995.37267000000	1134279.89582000000
AREA 2	1185994.68255000000	1134279.60544000000
AREA 2	1185993.55215000000	1134279.63749000000
AREA 2	1185988.83068000000	1134279.27543000000
AREA 2	1185988.41303000000	1134279.30277000000
AREA 2	1185987.50041000000	1134278.81723000000
AREA 2	1185987.05542000000	1134278.42691000000
AREA 2	1185986.68302000000	1134277.86407000000
AREA 2	1185986.21069000000	1134277.05610000000
AREA 2	1185984.83896000000	1134274.04200000000
AREA 2	1185977.97546000000	1134276.84015000000
AREA 2	1185986.44537000000	1134290.25321000000
AREA 2	1185987.74359000000	1134289.58102000000
AREA 2	1185989.99968000000	1134288.80417000000
AREA 2	1185998.33381000000	1134303.98779000000
AREA 2	1186019.70493000000	1134294.70336000000

Appendix D
TCE Area Excavation Coordinates
Utica Alloys (Site No. 633047)
Utica, NY

Area	X-Coordinate	Y-Coordinate
AREA 2	1186012.41447000000	1134277.52199000000
AREA 3	1185981.20929000000	1134264.08711000000
AREA 3	1185977.58587000000	1134255.23365000000
AREA 3	1185987.47915000000	1134251.20031000000
AREA 3	1185981.90205000000	1134237.28257000000
AREA 3	1185969.92711000000	1134241.67231000000
AREA 3	1185968.49691000000	1134240.96898000000
AREA 3	1185967.23924000000	1134240.33825000000
AREA 3	1185965.23677000000	1134238.58183000000
AREA 3	1185957.52016000000	1134223.86113000000
AREA 3	1185948.60515000000	1134228.63911000000
AREA 3	1185951.36654000000	1134233.65946000000
AREA 3	1185971.97185000000	1134268.42481000000
AREA 3	1185981.20929000000	1134264.08711000000

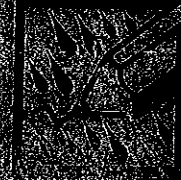
Notes:

- Coordinate System is in NAD 1983 State Plane New York
Central FIPS 3102 Feet

Appendix C
Field Book Notes

UTICA ALLOYS

T R M



ALL-WEATHER
FIELD

No. 350

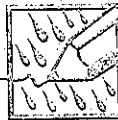
September 2007

to

CONTENTS

PAGE	REFERENCE	DATE
1	Site Visit: Excavation Limit Locating	9/21/07
2	Prep of Soil Storing location	9/22/07
3-54	Soil Excavating Activities	9/25/07 10/16/07

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



ALL-WEATHER FIELD BOOK

Name O'Brien + Gere

Address 5000 Britton Field PKwy
East Syracuse, NY

Phone 315-437-6100

Project Utica Alloys - IRM
36 Wurt Ave
Utica, NY

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book: #13053/40931

Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Fabrikoid Cover
Columnar	1/4" Grid	Item No. 350	Item No. 350F

1

9/21/07

Sunny ~ 85°F

Utica Alloys

Wurz Ave

Utica, NY

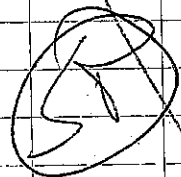
13053

Excavation limits ID

0950: Scott Tucker (SMT) onsite to locate
limits of excavation.

- Met w/ Rich Zajac to discuss locations

1340: SMT offsite



9/24/07

2

Utica Alloys

Wurz Ave

Utica, NY

13053

Sunny ~ 80°F

0930: SMT onsite.

- Meet w/ Abscope (Mike Peryer, Richard Sharpe,
Jerry Reminoli), Tony Geiss (OBG),
Rich Zajac (Utica Alloys) to review excavation
locations and utilities.

1100: Dig Safe called to reissue ticket # ~~09-137~~
09-137-145-087 due to unmarked phone
cables.

- Power lines identified in PCB areas

1135: Ed Rahn onsite (OBG).

- clearing staging location for soils

DTW: 5.84 DTB: 6

1342 EBR & SMT offsite

3

TUESDAY SEPT. 25, 2007

Sunny

50°/91°

0700 EBR arrived on site. Richard & Mike
of Abscope on site.

Set Dust Trak 01786 ~~Down~~^{Up} wind

Set Dust Trak Downwind

0730 Started downwind

0733 Started upwind

Abscope began excavating Area G.

0745 Finished Area G. Moved to Area F.

0806 Started PID in upwind location.

0805 Finished Area F. Moved to Area E.

0823 Moved upwind air monitor from
outside SW gate to So. of PCB stockpile
area. East of SE gate - inside.

0836 Checked Area G & F with PID = 0

4

0838 Frac Tank arrived on site.

0850 Placed PID in downwind air
monitor box.

0855 Placing Frac Tank.

0903 Collected Area-G-N: hard w/ filing

0906 " " -E: hard

0908 " " -S: hard

0910 " " -W: Soft, easy to collect

0912 " " -B: soft, sandy.

0926 Finished Area E to four feet.
PID reading = 0

0935 Began excavating Area-D.

0955 Finished Area-D Began on Area C.

1000 Bret Copple wanted to make sure
DEC was notified that excavation was
started. I called and left Eric Knapp
another message that we had begun.

5

0950 Collected sample at Area-F-N: hard
 0953 " " -E: hard, gravel
 0955 " " -S: hard
 0957 " " -W: very hard
 0959 " " -B: soft

1009 PID reading at Area D = 0

1011 PID reading at Area C = 6.6 ppm

1012 Finished with Area C

1050 Sal Priore of PEC on site.

1050 Collected sample at Area-E-N: soft

1053 " " -E: "

1055 " " -S: "

1056 " " -W: "

1058 " " -B: "

1100 Paul Marzurkewicz of OBG on site.

1105 Finished Area B. to four feet.

6

1129 Collected Area-D-N: mod.

1131 " " -E: "

1133 " " -S: "

1135 " " -W: "

1137 " " -B: soft

1149 Checked spoils from Area B with
 PID = 0 Checked Area A = 0

1200 Sal wanted to excavate another
 foot at Area C where PID hit occurred.
 Paul does not want to dig a foot
 unless directed by U.A.

Checked Area C again with PID = 0
 Agreed to clean up excavation and
 remove a couple more inches.

Dug to 18" to 22" on east half of hole.
 PID = 28.

Sal's cell (518) 281-9492

7

1225 Paul Mazurkewicz off site.

1235 Sal Priore off site.

Richard and Mike are busting up
concrete at the middle TCE excavation.

1307 Collected Area C - N

1309 " " - E

1311 " " - S

1313 " " - W

1314 " " - B

1343 Collected Area B - N

1345 " " - E

1346 " " - S

1348 " " - W

1350 " " - B

1417 Backhoe with ram is removed from
the site.

On site: 16 yd. Mack Dump

31D SG Deere Backhoe

135 C Deere Excavator

8

1420 Sal back on site.

1421 Collected Area A - N

1424 " " - E

1426 " " - S

1428 " " - W

1430 " " - B

1440 Sal off site.

1448 ~~Found~~ Turned off downwind
equipment.

1455 Turned off upwind equip.

1500 Everyone off site.

GPR

9

WEDNESDAY SEPT. 26, 2007

Sunny

69°/82°

0700 Arrived at Utica Alloys.
Richard Sharpe & Mike Peryer on site.

Richard asked if the TCE concentrations in the ground water were high enough to harm his pump and hose. I showed him the levels from the work plan.

0740 Called Tony Geiss and asked him. He thought the levels were low enough to not be a concern.

Abscope is laying poly at TCE soil staging area and building road at transformer pad.

0815 Calibrated 2 PIDs for continual monitoring.

0825 Turned on Upwind Air Monitor & PID.

0830 Turned on Downwind Air Monitor & PID.

10

0855 Chris Killoren OBG on site.

Excavation for sump is at 10'
First couple of feet PID = 20 ppm
Material from 10' PID = 1.8 ppm

Broken shale first 1' to 1.5', old bricks
Then ash. Then brick. Then sandy loam.

* Yesterday's stock pile of soil from the PCB excavations is estimated at ~ 70 yds.

1030 Northern TCE excavation:

- Sand with old bricks.
- 2' depth PID = 8.0 ppm
- In spots PID = 16.0 ppm
- 4 1/2" PVC conduit, empty, from Bldg to pole, east side of excavation, 24' to top.

1045 Eric Knapp (DEC) on site. Gave Eric copy of Work Plan.

11

1055 Chris Killoren off site

1100 Northern TCE excavation:

- 3 conduits along eastern side.
- 4 1/2", 2 1/2" PVC & 1 1/2" steel.
- West in bottom at ~ 5'.
- PID on N. Wall = 8.0
- PID on E. Wall under conduits = 14.0

1135 Using UV Light I saw no signs of TCE

Using PID and baggies:

S. Wall = 42.2

E. Wall = 9.2

N. Wall = 173

W. Wall = 1.4

1153 Collected Area - 1 - N: Black stained

1154 " " E: Sandy

1156 " " S: Black stained
* Towards East side.

1157 " " W: Sandy

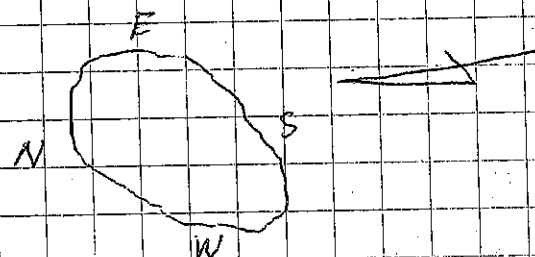
12

1230 Eric Knapp off site.

1250 Scott Tucker on site.

1253 Area 2:

2' deep, PID = 138



North Wall:

1'	Silt Sand	Dark Brown
2'-3'		Reddish/Orangeish Brick Fill/Sand
3'-5'		Silty Sand L. Br., Gray, Black

13

East Wall: Same
 South Wall: Same
 West Wall: Same

Depth of excavation 5' at top
 of water level.

PID AREA-2

East End ~~Water~~ Wall

Bottom Black to Gray 76.9 ppm
 Middle Orange (Brick) 9.2
 Top Gray 38.0

~~North Wall:~~

~~Top Gray 56.5 ppm
 Middle Orange 46.8
 Bottom Orange 87.9
 Bottom Black/Gray 58.4~~

Bottom of Excavation (Wet) 15.4

14

South West Wall:

Bottom Black 176.2 ppm
 Middle Orange 267
 Top Gray 519

South Wall:

Bottom Orange 176 ppm
 Middle Gray to Orange 134
 Top Black to Gray 388

North Wall:

Top Brown to Gray 238 ppm
 Middle Gray (Bricks) 91.4
 Middle Brown Gray 266
 Middle Orange (Bricks) 47.8
 Bottom Black (Moist) 905

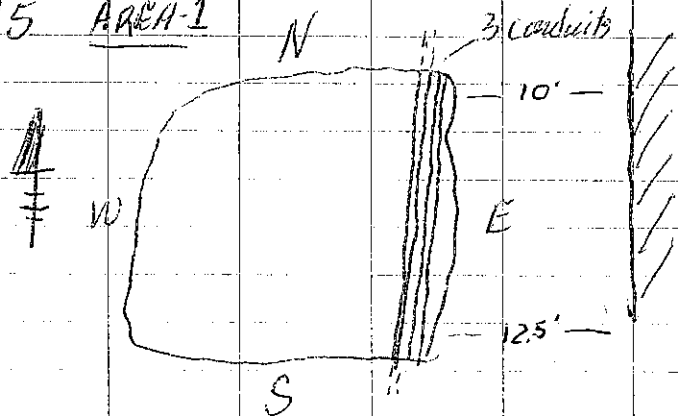
1430 Paul Mazurkiewicz on site.

Scott is talking to Bret about
 the condition of the excavation.

1450 Turned off downwind equip. (Flag)
 1458 Turned off upwind equip.

15

AREA-1



North Wall:

1'	Silt & gravel
2-3	Orange Brick
4	Black
5	Orange Brick

West Wall: Mostly Silty Sand

East Wall: Silty sand over old brick foundation.

South Wall: Sandy w/ Black material at 3' in SE corner.

16

AREA 1: PID readings

North Wall:

Top Gray	34.8 ppm
Middle Black Gray	17.3
Middle Black	474
Bottom Orange Brick	36.3

East Wall:

Top Orange	102 ppm
Middle Orange	68.4
Bottom Brown	111

South Wall:

Top Sandy	9.2 ppm
Middle Black	148
Bottom Sandy	43.0

West Wall:

Top Brown	0 ppm
Middle Brown Sandy	2.1
Bottom Brown	1.6

1500 Abscissa & Scott Left
1540 I Left.

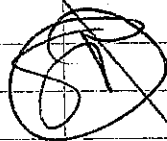
E.B.R.

17

9/26/07

Record of Phone Conversations

~1430: Met with Rich Zajac and called Brett Copple. Explained that PID headspaces on excavation walls were elevated high enough to warrant continued excavation at Area 2. PID headspace > 100 ppm on 3 ~~at~~ walls. Bret agrees that excavating should continue.



THURSDAY SEPT. 27, 2007

18

Overcast/Rain

68°/76°

0700 Arrived at Ulica Alley's.

Richard Sharpe and Dan Murray at Abscope on site.

0715 Checked zero on two Dust Traks

Richard said approximately 80 yds. were excavated yesterday.

Calibrated 3 Mini RAEs

0755 Turned on Upwind air sampling.

0802 Turned on Downwind (Flagged) air sampling.

0745 Turned on sump pump.

0800 Began excavating Area 3.

0815 Eric Knapp (DEC) on site.

0816 Began to rain. Sprinkled for a few minutes.

19

PID reading of black mat. within 2'-4'
of excavation = 110 ppm.

0827 PID reading of gray material at
bottom of excavation (6' down) = 3.5 ppm

0847 Turned off upwind PID to check
intake. Calibrated fresh air.

0853 Turned PID on. - OK

0855 Richard informed me dump truck has
a flat tire. Gone to repair.

1010 Dump Truck returned

Water is at 6'. ∴ Excavating to 7'.

1035 Brett stopped to see what the
conditions of the excavating are.

1055 PID of mat. from [≈] middle of
excavation length = 1600 ppm.
Bottom mat. same area = 30 ppm

20

AREA 3.

WEST WALL:

1' to 1 1/2' Silty Loam
1' of Black Material
6" of Whitish Ash
3' to 4' of Orange Brick.

PID of West Wall:

Top Black Mat.	410 ppm
Middle White Ash	111
Bottom Orange Brick	112

PID of East Wall: 2' Down 4118 ppm

1100 The wind direction has changed
the monitors are reversed. Now the
flagged monitor is upwind.

1215 Now the wind direction has changed
back to the direction it was.

1230 Top of excavation 5 to 6' from gas
line. Sloping the North wall. Dig
from bottom = 475 ppm.

21

AREA 3: East Wall:

3' Down Black w/ Ash > 9999 ppm

5' Down Black w/ Ash 4375

Brown w/ Brick

North Wall:

~3' Down Black w/ Ash > 9999 ppm

1330

South Wall:

2' Down Black w/ Ash 607 ppm

4' Down Brown w/ Little Black 242

Eastern edge of Area 3 to Bldg = 13'

1400 Brett and Joe (Owner) looked at excavations. Joe said continue to excavate toward Bldg in Area-3.

1430 Sal on site.

14435 Collected Area-3-W

1443 Collected Area-1-N Middle 3' Down

1447 " " - E Middle 3' Down

1451 " " - S Left Corner 3' from East 3' Down.

22

At Sal's request checked bottom sample with PID = 7.7 ppm HD after sitting.

1503 Turned off downwind air monitor (flag).

1510 Turned off upwind air monitor

1520 Sal (DEC) left. He wants to excavate one more foot in Area 1 or take a sample.

Abscope back fill AREA E w/ stone.

1512 Left

Sump Pump is not running.

1540 Left site.

* 4 loads from Area 3 were added to stock pile.

23

MONDAY OCT. 1, 2007

Sunny

50°/76°

0700 Arrived on site at Utica Alloys
Richard Sharpe and Mike Peryer on site.

0725 Started sump pump in Area 3.

0740 Areas D & F have 3" to 4" of water in
the excavation. Called Tony Geiss to
check on options of water removal.

0821 Turned on Upwind Dust Trak.

0823 Turned on Downwind Dust Trak. (Flag)

Upwind is located east of PCB soil
staging area. Downwind is located at
SW corner of property.

0830 Abscoper backfilled Area G with gravel.

0840 Calibrated Mini Rads

0846 Turned on Upwind PID.

0848 Turned on Downwind PID.

Abscoper disconnected excavator bucket in
Area 3.

24

0910 Began excavating at Area C.
PID = 8.0

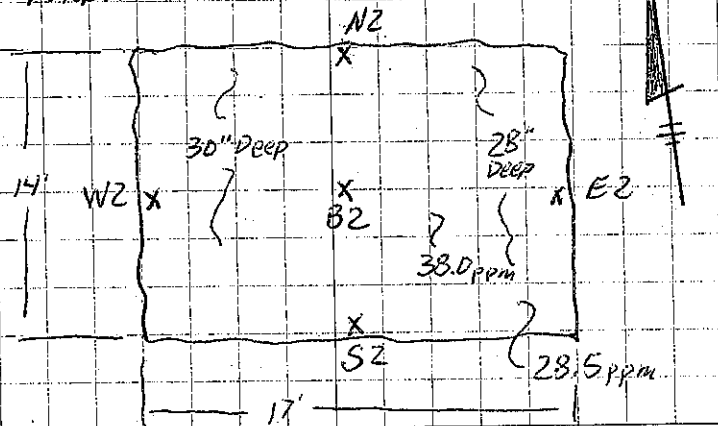
Eastern side of Area C one PID
spike of 34 ppm.

0950 Noticed Eric Knapp (DEC) sitting
in car along road. Mike told he has been
there ~45 mins.

0954 Area C - SE corner PID = 28.5

Downwind of excavation there's an
odor. Highest reading downwind = 2.5

AREA C:



25

1028	Collected	Area-C-N2	20"
1030	"	" E2	21"
1033	"	" S2	20"
1035	"	" W2	22"
1037	"	" B2	

1111 Sal Priore of DEC on site.

Abscops excavated 1 foot deeper in Area B.

Excavating 2 feet out on all sides at Area A. Caught the conduits with wires to yard lights.

1122 Collected Area-B-B2.

1134 Collected AREA-A-N2

1135 " " -E2

1138 " " -S2

1140 " " -W2

Richard & Mike went to shop.

Electrician on site to repair wires.

26

1300 Electrician asked to have conduit to Bldg. excavated because he can't get new wires through existing.

1330 Richard & Mike return.

Sal returns to site.

Deb calls with TCE results for Area 1 and West wall of Area 3.

I explained to Sal we will excavate further on North and South wall in Area 1. Sal wants to excavate to the East as well.

Sal wants to excavate deeper in Area A and collect sample. Deb does not want to sample.

I agree with Sal to remove more from bottom so there will be more than a foot of cover, but no sample at this time. Sal agreed to wait for results of walls.

1440 Decided to finish Area D in the morning. Hopefully it will dry up.

27

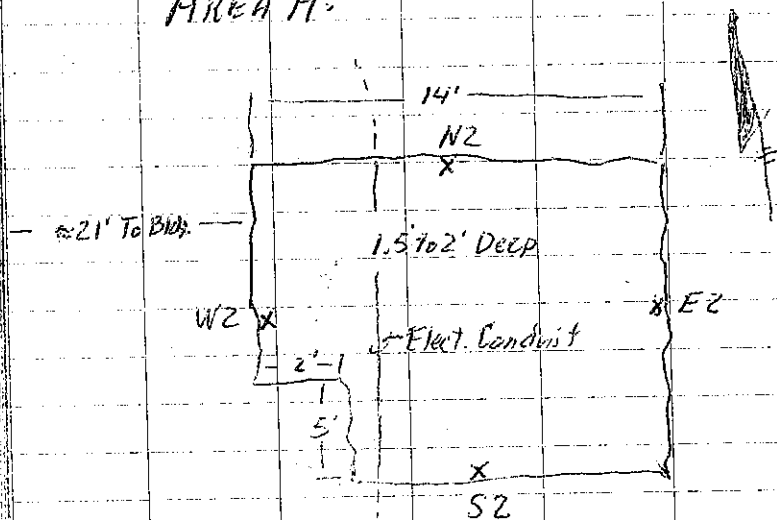
1500 Turned off Upwind monitors

1502 Turned off Downwind monitors.

Saul talked to Brett about digging deeper. Brett told Saul he would talk to Deb.

1515 Everyone off site.

AREA A:



TUESDAY OCT. 2, 2007

28

Sunny / Partly Cloudy

53° / 72°

0700 Arrived at Ulica Alleys.

Richard and Mike on site.

Mike is covering the electrical conduit for the yard lights.

0745 Calibrated all 3 Mini Rals.

0800 Turned on Upwind Air Monitors.

0803 Turned on Downwind Air Monitors (Flag)

0810 Finished excavating at Area D.

0820 Finished excavating floor at Area F.

Total depth = 2'

0830 Collected AREA-D-N2 18"

0832 C " " -E2 14"

0834 " " -S2 16"

0836 " " -W2 15"

0839 " " -B2

0843 Collected AREA-F-B2

29

Additional yardage added to PCB stockpiled soil for yesterday and today = \approx 50 yds.

0905 - 0910 Moved Upwind Monitors from East of PCB stock pile to NW area of the Bldg.

0930 Began excavating in AREA 1

\approx 1000 Eric Knapp (DEC) on site

1035 Bricks and dirt from AREA 1 NE and floor PID = 15 ppm.

Baggie PID Readings:

AREA 1:

	N wall 1' down: Brown	2.4 ppm
	N wall 2.5' down Black	10.2
	N wall 4.5' down Orange Brick	58.6
15' from fence	E wall 2' down Black & Ash	292
	E wall 4' down Black & Orange	421
	W wall 2.5' down Black	8.2
	W wall 4.5' down Brown	5.3

30

1105 Sal Priore (DEC) on site.

AREA-1 North wall is 6'-7' from fence. NE corner of AREA-1 8' from Bldg.

1200 Excavated on east side of conduits in original area. To within 6' of Bldg. Does not look as bad. This black lense. PID (wet in bag) 8.4 ppm.

Wind has changed - S to N.

1330 ^{E (PR)} SW corner of So. Wall - AREA-1
PID (Baggie) = 143 ppm.

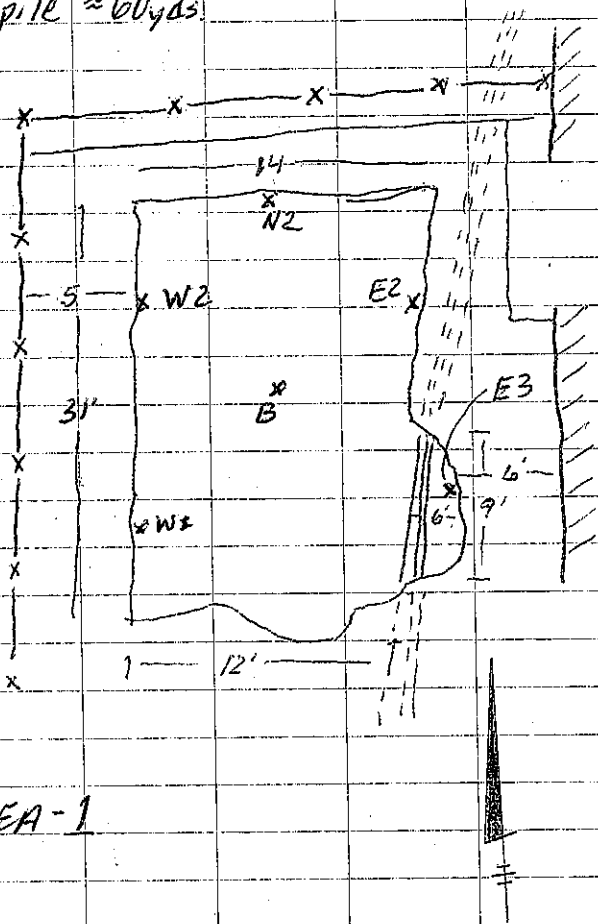
AREA-1:

1403	Collected	AREA-1-N2	4' deep / center.
1410	"	"	- E2 4' deep / 10' from N end Black & Orange.
1418	"	"	- S2-1.5' SW corner / Sandy 1.5' down
1424	"	"	- S2-3' SW corner / black 3' down.
1432	"	"	- B Clay

31

1448 Turned off Downwind monitors.

1458 Abscope and DEL left the site.

3 Truck loads of TCE soil added to
Stock pile \approx 60 yds.

AREA-1

WEDNESDAY OCT. 3, 2007

32

Partly Cloudy / Sunny

63°/80°

0700 Arrived on site at Utica Alloys.
Richard & Mike on site.

0800 Calibrated the 3 Mini Raes

0814 Turned on Upwind monitors

0816 Turned on Downwind monitors.

0830 2 feet of water in Frak Tank.

0900 Excavating in AREA 2 - uncovered
copper pipe. Waiting for Rich to check
drawings.0912 Collected AREA-1-W2: Black & gray;
12' from N. end; at 33" below grade

0930 AREA 1-E3 Baggies: E. of conduits

0937 Collected AREA-1-E3: Black & orange
2' down east of conduits.

33

AREA 1 - E2 Baggies. East of conduits

1' Down Orange & grey	18.7 ppm
2' Down Ash & Black	6.4
3' Down Orange-Slight Black	31.9
4' Down Orange	19.4

1115 Witte Plumbing on site. They decide the water line needs to be repaired.

1135 AREA 1 - E2 Baggies (after sitting in sun)

1' Down	40.2 ppm
2' Down	17.4
3' Down	57.2
4' Down	29.4

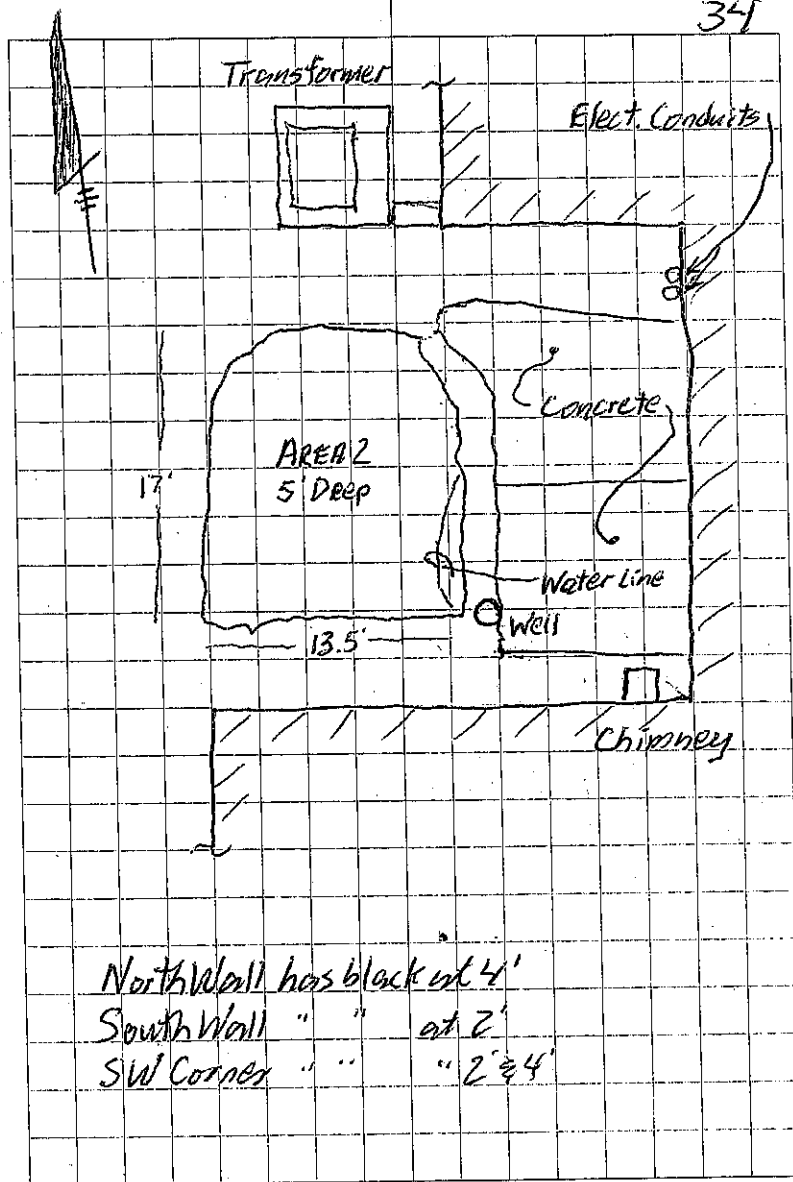
1205 I told Mike he can backfill AREA-B.

1235 A load of stone is delivered. 44.6 Tons

1245-1315 Lunch

Eric Knapp (DEC) has been on and off the site throughout the day.

34



35

AREA 2 (Baggie Tests):

N 1'	Gray Soil	53.4 ppm
N 2.5'	Orange	6.7
N 4'	Brown w/Orange	8.5
N 5'	" "	22.6
E 1'	Brown w/Orange	7.1 ppm
E 2'	" "	13.3
E 4'	Orange	14.6
E 5'	" "	10.3
S 1'	Black	311 ppm
S 2'	Black w/Orange	107.8
S 3'	Orange	28.6
S 4'	Brown w/Orange	30.4
W 1'	Black Brown	15.0 ppm
W 3'	Brown	27.1
W 5'	Brown Orange	38.1
SW 4.5'	Black	52.9 ppm

36

1439 Collected AREA-2-N: 3' down
Orange & Brown Material.

1446 Collected AREA-2-E: 2.5' down
Orange & Brown Material

1455 Brett stopped out to inquire about
progress.

1500 Abscops left.

1506 Turned off Downwind monitors

1509 Turned off Upwind monitors.

1510 Load of stone arrived.

37

THURSDAY OCT. 4, 2007

Cloudy/Sunny

63°/79°

0700 Arrived on site at Utica Pliffs.
Richard and Mike (Abscope) on site.

0750 Calibrated 3 Mini Rae's.

0756 No wind direction:
Turned on South Air monitors.

0801 Turned on North Air monitors.

0805 Excavated further on South wall
of AREA-2. Removed 4' to the South
down 3' on a slope of 1 on 1.

Plumber Joe Grulich from Wirre
Plumbing on site. He has boots and
gloves supplied by Abscope to go
into Area-2 to repair water line.

Poly was placed in AREA-2 before Joe
entered. PID = 0

0845 Test Pit was dug 8' West of Area-2
to a depth of 3'-8". PID = 34.8 Black
material was present.
Baggie 10.4

38

0920 Abscope tried to move Frak Tank w/
excavator. Did not budge.

0945 AREA-3 South Wall (Baggies):

2' Down - Black Mat.	6.3
3' " Brown	34.6
4' " Grayish	22.7
5' " Wet Orangeish	2.7
6' " Wet Orange/Brown	2.4

East Wall in ash 2' down near
Propane Tank = 78.
Had the ash removed.

1030 Collected AREA-3-S: Brown/Gray

1038 Collected AREA-3-N: Brown/Orange

1040 Deb Wright (OB6) on site.

1050 Plumber finished repairing water pipe

39

1115 Collected Baggies: E. Wall Area 3
near concrete pad.

1' Down Brown Mat.	> 9999 ppm
3' Down Brown/Orange	> 9999
5' Down Brown/Orange	5228
6' Down " "	1078

1130 TEST PIT:

3' N	22 ppm
3' W	18.5
5'	151

1147 Collected AREA-2-S:

AREA-2-S (Baggies):

2' Down White Ash	882 ppm
3' Down Brown/Orange	1390
2-SW-2.5' Down	3270

1208 Sal Priore (DEC) on site.

1230 Sal left.

1250 Sal returned.

40

1258 Third load of stone for the day arrives. Dumped at AREA-2.

1305 4th load of stone. Dumped in South end of AREA 3

1325 Deb left the site

1400 Finished excavating material from east wall of AREA-3.

Decommed excavator bucket. Worked on backfill in AREAS 2 & 3.

1 load to TCE stockpile.

1450 Two more loads of stone arrives.

1457 Collected AREA-F-B3. Ex is down 4'-3"

1507 Shut off upwind monitor - (Flag)

1514 Shut off downwind monitor

41

FRIDAY OCT. 5, 2007

Sunny

56°/84°

0700 Arrived at WY, LA Alloys.
Richard & Mike on site.

0745 Excavator is compacting in AREA-3
Backhoe is backfilling AREA-1.

0810 Calibrated 3 Mini Rae's.

Placed upwind monitoring station
SE of AREA F, downwind NW AREA-1.

0812 First load of stone arrived.

0813 Turned on Upwind Monitoring Equip.

0816 Turned on Downwind Monitoring Equip.

0850 Eric Knapp (DEC) on site.

0935 Frac Tank: Water Level = 88" down =
27³/₄" in Tank = \approx 4600 gallons.

0945 Sal Priore (DEC) on site.

42

0948 Collected water sample from
FRACTANK.

Absope backfilled AREAS A, C & D
after placing mirafi in bottom of excavator.

12:15-12:45 Lunch

Sal back on site.

1400 Excavated East side of AREA-1 to
the conduits.

Baggies:

E4-1' Gray 156 ppm

E4-2.5' Orange 43.5

E4-3.5' Orange 62.4

E4-4.5' Orange 66.2

1435 Collected AREA-1-E4 25' DOWN
11' from No. limit of AREA-1

1447 Turned off Downwind monitors.

1454 Turned off Upwind monitors.

43

MONDAY OCT. 8, 2007

Overcast/Rain

57°/71°

0700 Arrived at Utica Alloys.
Richard & Mike on site. Recently rained.

0800 Calibrated 3 Mini Raes.

0814 Turned on Monitoring Equip. at
South end of property.

0824 Turned on Monitoring Equip. at
North end of property (Flags)

0810 Eric Knapp (DEC) on site.

Richard smoothed out stone left at
AREA-3.

Removed material from AREA-1
left last Friday from East wall of ex.

0850 Began Excavating SW corner of
AREA-2. PID in bucket = 120

0853 Red brick in bucket = 85

0855 Sand 8' to SW = 101

Uncovered copper pipe and elect.

44

cord and plug at corner of bldg.
Doug at Utica Alloys looked at it but
did not know what it was.

0935 Dan arrives w/ ram hoe. Richard
begins busting the concrete pad near
propane tank and Bldg.

1035 Dan loads ram hoe ~~back~~ on trailer.

Richard and Mike remove the
busted concrete to back of property.

1140 Collected baggie samples from west
wall of SW dig between AREA 2 & 3.
101 from Area 2

1.5' Down - Black 85.4 ppm₂

3.0' Down - Brown Orange 188

5' Down - Orange 206

1156 Last bucket towards AREA 3 = 351 ppm₂

AREA between 2 & 3 ≈ 17' long x 5'
wide x 5' deep.

45 AREA - Between 2 & 3. Baggie:

1245 West Wall 7' N of Southern end
 2' Down Sand & Black 97.9 ppm
 4' Down Brown & Black 822
 5' Down Brown & Orange 646

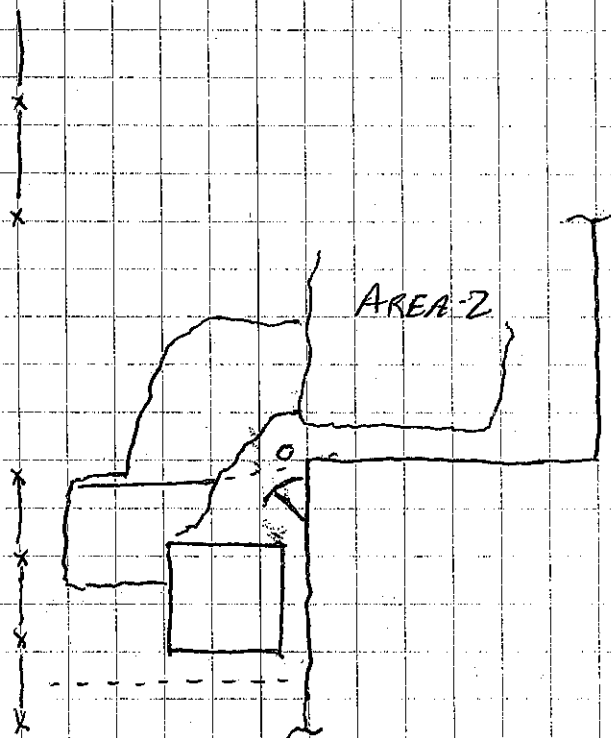
West Wall 7' from AREA 2.
 2' Down 371 ppm
 4' Down 117

South Wall:
 1.5' Down 274 ppm
 2.5' White Ash 5092
 4' Down 4122

East wall Towards Bldg.
 Opposite main door.
 2' Down Ash 745 ppm
 4' Down Orange 396
 5' Down 176

Called Deb. Decided to widen the excavation.

46



Backfilled AREA - F.
 2 Loads of stone delivered today.

47

Bogies between AREAS 2 & 3:

W ≈ 8' from AREA-2

1' Down Brown	10.4 ppm
2.5' Down Black	762
4' Down Brown w/ Orange	404
5' Down "	93.4

W ≈ 12' from South end near vent pipe.

1' Down Sandy	12.8 ppm
2.5' Down Black	39.3
4' Down Orange	205
5' Down Orange	152

1430 Began to pour.

1438 Turned off monitors to the North.

1447 Turned off monitors to the South.

1453 Abscoped off site.

TUESDAY OCT. 9, 2007

48

Overcast / Sunny

58°/62°

1055 Arrived on site at Utica Alloys.

Richard Sharpe arrived ≈ 5 minutes earlier. Mike Peryer was on site at 7:00. Rain stopped ≈ 8 AM. Mike has been pumping water from AREAS 1 & 2 to the Frac Tank.

1105 Greg Rys of Dept. of Health on site.

Mike is back filling AREA-1 before we can excavate further west with the AREA 2 extension.

1355 Began further excavating to the west in AREA 2-Extension.

AREA 2-Extension to West:

Northern Wall:

1' Down Brown	11.0 ppm
3' Down Black	1226
5' Down Orange	385

49

Western Woodl ≈ 3' North of Vent pipe.

1' Down Sand 14.9 ppm

3' Down Black 256

5' Down 164

Excavated further to the North.

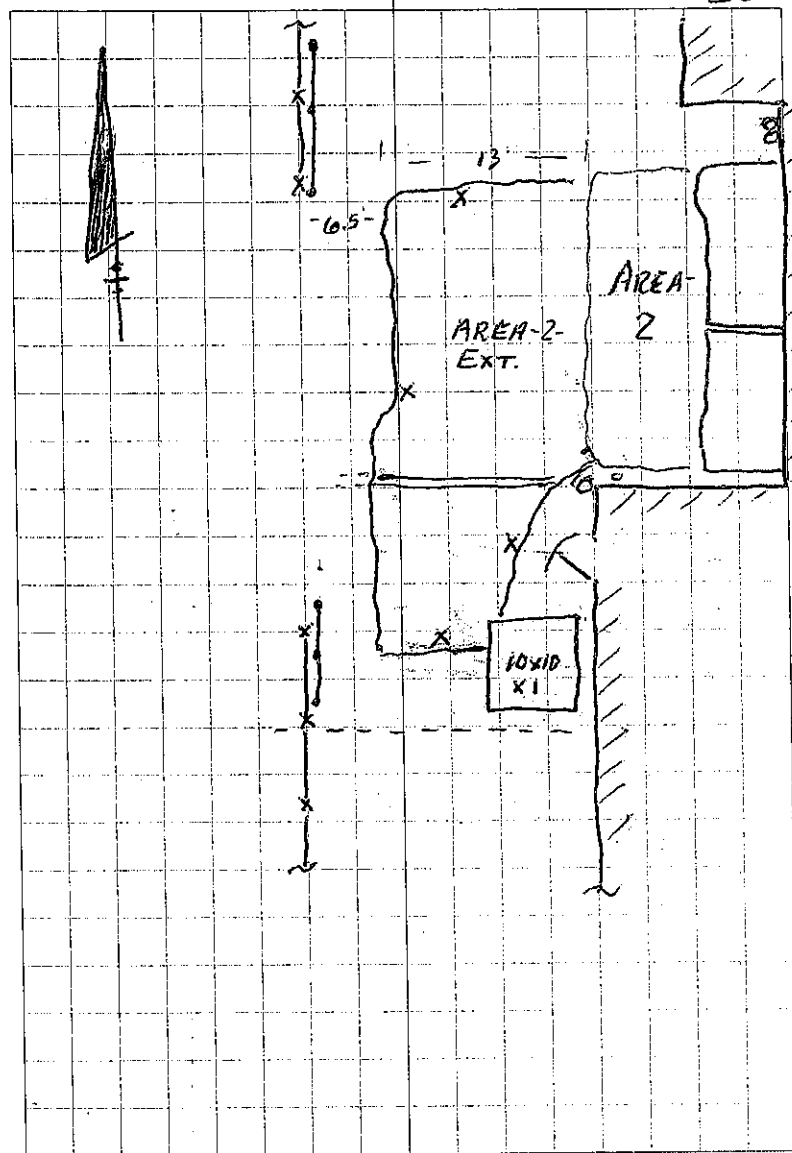
1' Down Brown 200 ppm

3' Down Black 286

5' Down Orange 766

1457 Collected AREA-2-EXT-N^W ^{through} _{cut!}
3' Down1504 Collected AREA-2-EXT-W:
3.5' Down1508 Collected AREA-2-EXT-E:
3' Down; middle of meander.1513 Collected AREA-2-EXT-S:
3' Down; middle.

50



51

WEDNESDAY OCT. 10, 2007

Overcast/Sunny

58°/72°

0700 Arrived at Vicia Alloys.
Richard and Mike on site.

Richard is cleaning material ~~in~~ from
AREA-2-Extension.

0810 Greg Rys (NYSDDM) arrives on site.

0820 Calibrated 3 Mini Rae's.

0822 Turned on So. Upwind Air Monitors.

0826 Turned on No. Downwind Air Monitors.

Baggie Readings: AREA-2-Extension
North Wall:

1' Down Brown	1.2 ppm
2' Down Brown/Gray	7.3
3' Down Brown & Orange	89.8
4' Down Orange	130

0910 Collected AREA-2-EXT-N.
3' Down Brown & Orange.

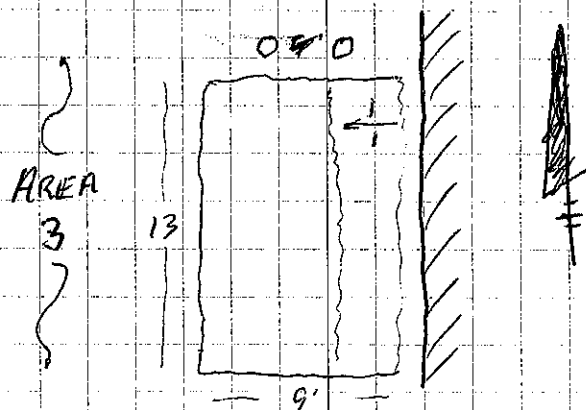
52

1020 Began excavating east of
AREA-3.

Down \approx 3' Bucket readings \approx 2000

Water at \approx 6'

1050 Sal Priore (DEC) on site.



53

1250

Baggies AREA-3-EXT-N:

1' Down Sand	73.8 ppm
3' Down	44.0
4' Down	42.2
5' Down	385

1320

Baggies AREA-3-EXT-E:

1.5' Down Br. & Bl	121 ppm
3' Down Orange	157
5' Down Br. & Orange	399

Baggies AREA-3-EXT-S:

1.5' Down Black	1166 ppm
3' Down Orange	161
5' Down Br. & Orange	937

1341

Collected AREA-3-EXT-N: Sandy 3' ↓

1343

Collected AREA-3-EXT-E: Orange 3' ↓

1348

Collected AREA-3-EXT-S: Orange 3.5' ↓

1415

Frac Tank has 37 1/2" of water.
 ≈ 6250 gallons.

Backfilled all areas.

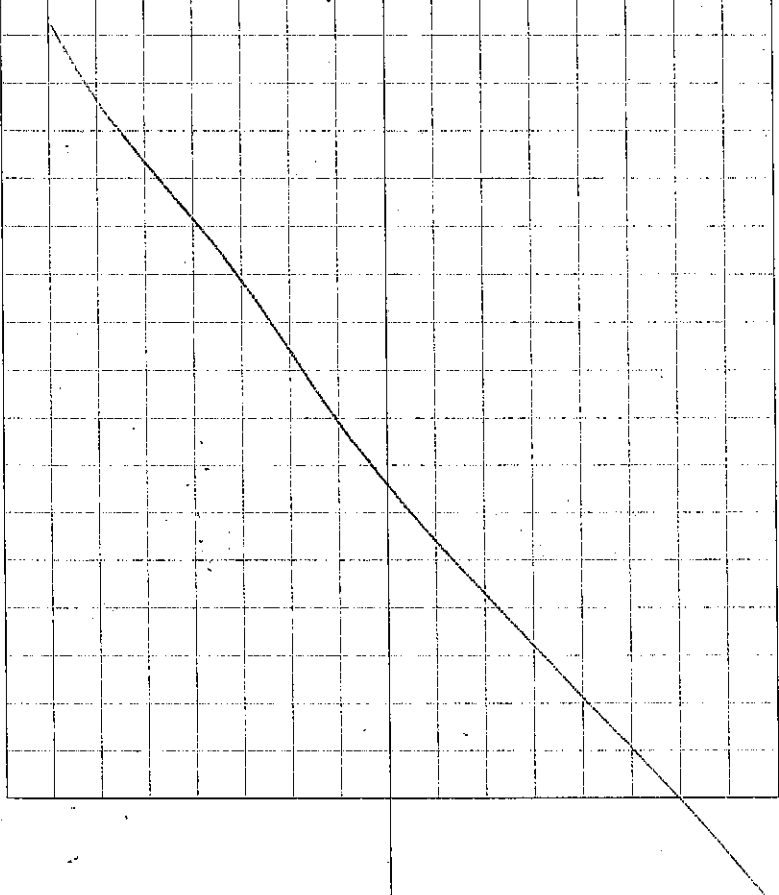
54

1515 Test Pit 5' So. of AREA-3

≈ 1.5' Down Br	34 ppm
≈ 3' Down	49.2
5' Down	63.2

1523 Turned off downwind (So) monitors.

1527 Turned off upwind (No) monitors.



Appendix D
Air Monitoring Data

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 9/25/2007
 Start Time: 7:31:31
 Duration (dd:hh:mm:ss): 00:07:15:00
 Time constant (seconds): 5
 Log Interval (mm:ss): 15:00
 Number of points: 29
 Notes: Downwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.086
 Minimum: 0.016
 Time of Minimum: 10:46:31
 Date of Minimum: 9/25/2007
 Maximum: 0.757
 Time of Maximum: 13:31:31
 Date of Maximum: 9/25/2007

Calibration Sensor: Aerosol
 Cal. date 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
9/25/2007	7:46:31	0.038
9/25/2007	8:01:31	0.037
9/25/2007	8:16:31	0.041
9/25/2007	8:31:31	0.116
9/25/2007	8:46:31	0.056
9/25/2007	9:01:31	0.065
9/25/2007	9:16:31	0.055
9/25/2007	9:31:31	0.078
9/25/2007	9:46:31	0.045
9/25/2007	10:01:31	0.022
9/25/2007	10:16:31	0.052
9/25/2007	10:31:31	0.019
9/25/2007	10:46:31	0.016
9/25/2007	11:01:31	0.021
9/25/2007	11:16:31	0.022
9/25/2007	11:31:31	0.02
9/25/2007	11:46:31	0.019
9/25/2007	12:01:31	0.034
9/25/2007	12:16:31	0.026
9/25/2007	12:31:31	0.029
9/25/2007	12:46:31	0.06
9/25/2007	13:01:31	0.073
9/25/2007	13:16:31	0.233
9/25/2007	13:31:31	0.757
9/25/2007	13:46:31	0.079
9/25/2007	14:01:31	0.112
9/25/2007	14:16:31	0.226
9/25/2007	14:31:31	0.085
9/25/2007	14:46:31	0.069

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 9/25/2007
 Start Time: 7:34:29
 Duration (dd:hh:mm:ss): 00:07:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 29
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.05
 Minimum: 0.019
 Time of Minimum: 10:04:29
 Date of Minimum: 9/25/2007
 Maximum: 0.172
 Time of Maximum: 14:04:29
 Date of Maximum: 9/25/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
9/25/2007	7:49:29	0.029
9/25/2007	8:04:29	0.033
9/25/2007	8:19:29	0.034
9/25/2007	8:34:29	0.04
9/25/2007	8:49:29	0.03
9/25/2007	9:04:29	0.023
9/25/2007	9:19:29	0.024
9/25/2007	9:34:29	0.021
9/25/2007	9:49:29	0.021
9/25/2007	10:04:29	0.019
9/25/2007	10:19:29	0.061
9/25/2007	10:34:29	0.04
9/25/2007	10:49:29	0.02
9/25/2007	11:04:29	0.02
9/25/2007	11:19:29	0.089
9/25/2007	11:34:29	0.022
9/25/2007	11:49:29	0.023
9/25/2007	12:04:29	0.024
9/25/2007	12:19:29	0.026
9/25/2007	12:34:29	0.055
9/25/2007	12:49:29	0.029
9/25/2007	13:04:29	0.032
9/25/2007	13:19:29	0.151
9/25/2007	13:34:29	0.162
9/25/2007	13:49:29	0.09
9/25/2007	14:04:29	0.172
9/25/2007	14:19:29	0.055
9/25/2007	14:34:29	0.059
9/25/2007	14:49:29	0.06

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 9/27/2007
 Start Time: 7:58:28
 Duration (dd:hh:mm:ss): 00:07:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 28
 Notes: Upwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.056
 Minimum: 0.035
 Time of Minimum: 12:43:28
 Date of Minimum: 9/27/2007
 Maximum: 0.077
 Time of Maximum: 8:13:28
 Date of Maximum: 9/27/2007

Calibration Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
9/27/2007	8:13:28	0.077
9/27/2007	8:28:28	0.073
9/27/2007	8:43:28	0.064
9/27/2007	8:58:28	0.067
9/27/2007	9:13:28	0.073
9/27/2007	9:28:28	0.072
9/27/2007	9:43:28	0.075
9/27/2007	9:58:28	0.073
9/27/2007	10:13:28	0.061
9/27/2007	10:28:28	0.058
9/27/2007	10:43:28	0.059
9/27/2007	10:58:28	0.054
9/27/2007	11:13:28	0.042
9/27/2007	11:28:28	0.045
9/27/2007	11:43:28	0.047
9/27/2007	11:58:28	0.046
9/27/2007	12:13:28	0.051
9/27/2007	12:28:28	0.044
9/27/2007	12:43:28	0.035
9/27/2007	12:58:28	0.039
9/27/2007	13:13:28	0.067
9/27/2007	13:28:28	0.049
9/27/2007	13:43:28	0.042
9/27/2007	13:58:28	0.05
9/27/2007	14:13:28	0.043
9/27/2007	14:28:28	0.055
9/27/2007	14:43:28	0.053
9/27/2007	14:58:28	0.047

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 2
 Test Abbreviation:
 Start Date: 9/27/2007
 Start Time: 8:04:56
 Duration (dd:hh:mm:ss): 00:07:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 28
 Notes: Downwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.04
 Minimum: 0.016
 Time of Minimum: 11:04:56
 Date of Minimum: 9/27/2007
 Maximum: 0.07
 Time of Maximum: 10:04:56
 Date of Maximum: 9/27/2007

Calibration
 Sensor: Aerosol
 Cal. date: 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
9/27/2007	8:19:56	0.06
9/27/2007	8:34:56	0.04
9/27/2007	8:49:56	0.041
9/27/2007	9:04:56	0.037
9/27/2007	9:19:56	0.041
9/27/2007	9:34:56	0.039
9/27/2007	9:49:56	0.038
9/27/2007	10:04:56	0.07
9/27/2007	10:19:56	0.037
9/27/2007	10:34:56	0.033
9/27/2007	10:49:56	0.027
9/27/2007	11:04:56	0.016
9/27/2007	11:19:56	0.07
9/27/2007	11:34:56	0.026
9/27/2007	11:49:56	0.057
9/27/2007	12:04:56	0.025
9/27/2007	12:19:56	0.035
9/27/2007	12:34:56	0.023
9/27/2007	12:49:56	0.023
9/27/2007	13:04:56	0.042
9/27/2007	13:19:56	0.029
9/27/2007	13:34:56	0.038
9/27/2007	13:49:56	0.048
9/27/2007	14:04:56	0.042
9/27/2007	14:19:56	0.051
9/27/2007	14:34:56	0.04
9/27/2007	14:49:56	0.045
9/27/2007	15:04:56	0.037

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/1/2007
 Start Time: 8:25:15
 Duration (dd:hh:mm:ss): 00:06:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 26
 Notes: Downwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.022
 Minimum: 0.01
 Time of Minimum: 12:40:15
 Date of Minimum: 10/1/2007
 Maximum: 0.051
 Time of Maximum: 9:10:15
 Date of Maximum: 10/1/2007

Calibration Sensor: Aerosol
 Cal. date 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/1/2007	8:40:15	0.049
10/1/2007	8:55:15	0.045
10/1/2007	9:10:15	0.051
10/1/2007	9:25:15	0.039
10/1/2007	9:40:15	0.035
10/1/2007	9:55:15	0.028
10/1/2007	10:10:15	0.023
10/1/2007	10:25:15	0.021
10/1/2007	10:40:15	0.016
10/1/2007	10:55:15	0.019
10/1/2007	11:10:15	0.022
10/1/2007	11:25:15	0.013
10/1/2007	11:40:15	0.016
10/1/2007	11:55:15	0.022
10/1/2007	12:10:15	0.015
10/1/2007	12:25:15	0.017
10/1/2007	12:40:15	0.01
10/1/2007	12:55:15	0.016
10/1/2007	13:10:15	0.013
10/1/2007	13:25:15	0.012
10/1/2007	13:40:15	0.022
10/1/2007	13:55:15	0.014
10/1/2007	14:10:15	0.011
10/1/2007	14:25:15	0.01
10/1/2007	14:40:15	0.011
10/1/2007	14:55:15	0.011

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/1/2007
 Start Time: 8:23:08
 Duration (dd:hh:mm:ss): 00:06:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 26
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.031
 Minimum: 0.024
 Time of Minimum: 10:08:08
 Date of Minimum: 10/1/2007
 Maximum: 0.037
 Time of Maximum: 11:08:08
 Date of Maximum: 10/1/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/1/2007	8:38:08	0.034
10/1/2007	8:53:08	0.03
10/1/2007	9:08:08	0.03
10/1/2007	9:23:08	0.028
10/1/2007	9:38:08	0.029
10/1/2007	9:53:08	0.025
10/1/2007	10:08:08	0.024
10/1/2007	10:23:08	0.024
10/1/2007	10:38:08	0.026
10/1/2007	10:53:08	0.036
10/1/2007	11:08:08	0.037
10/1/2007	11:23:08	0.035
10/1/2007	11:38:08	0.033
10/1/2007	11:53:08	0.036
10/1/2007	12:08:08	0.033
10/1/2007	12:23:08	0.035
10/1/2007	12:38:08	0.032
10/1/2007	12:53:08	0.034
10/1/2007	13:08:08	0.035
10/1/2007	13:23:08	0.033
10/1/2007	13:38:08	0.033
10/1/2007	13:53:08	0.034
10/1/2007	14:08:08	0.031
10/1/2007	14:23:08	0.031
10/1/2007	14:38:08	0.03
10/1/2007	14:53:08	0.03

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/2/2007
 Start Time: 8:05:26
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 27
 Notes: Upwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.024
 Minimum: 0.009
 Time of Minimum: 11:20:26
 Date of Minimum: 10/2/2007
 Maximum: 0.065
 Time of Maximum: 8:35:26
 Date of Maximum: 10/2/2007

Calibration Sensor: Aerosol
 Cal. date 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/2/2007	8:20:26	0.064
10/2/2007	8:35:26	0.065
10/2/2007	8:50:26	0.053
10/2/2007	9:05:26	0.04
10/2/2007	9:20:26	0.033
10/2/2007	9:35:26	0.031
10/2/2007	9:50:26	0.031
10/2/2007	10:05:26	0.024
10/2/2007	10:20:26	0.024
10/2/2007	10:35:26	0.019
10/2/2007	10:50:26	0.019
10/2/2007	11:05:26	0.011
10/2/2007	11:20:26	0.009
10/2/2007	11:35:26	0.011
10/2/2007	11:50:26	0.01
10/2/2007	12:05:26	0.013
10/2/2007	12:20:26	0.023
10/2/2007	12:35:26	0.016
10/2/2007	12:50:26	0.017
10/2/2007	13:05:26	0.013
10/2/2007	13:20:26	0.02
10/2/2007	13:35:26	0.021
10/2/2007	13:50:26	0.022
10/2/2007	14:05:26	0.017
10/2/2007	14:20:26	0.017
10/2/2007	14:35:26	0.02
10/2/2007	14:50:26	0.012

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/2/2007
 Start Time: 8:02:32
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 27
 Notes: Downwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.053
 Minimum: 0.036
 Time of Minimum: 9:02:32
 Date of Minimum: 10/2/2007
 Maximum: 0.073
 Time of Maximum: 11:17:32
 Date of Maximum: 10/2/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/2/2007	8:17:32	0.043
10/2/2007	8:32:32	0.04
10/2/2007	8:47:32	0.037
10/2/2007	9:02:32	0.036
10/2/2007	9:17:32	0.047
10/2/2007	9:32:32	0.061
10/2/2007	9:47:32	0.071
10/2/2007	10:02:32	0.065
10/2/2007	10:17:32	0.069
10/2/2007	10:32:32	0.053
10/2/2007	10:47:32	0.045
10/2/2007	11:02:32	0.038
10/2/2007	11:17:32	0.073
10/2/2007	11:32:32	0.057
10/2/2007	11:47:32	0.055
10/2/2007	12:02:32	0.055
10/2/2007	12:17:32	0.047
10/2/2007	12:32:32	0.036
10/2/2007	12:47:32	0.036
10/2/2007	13:02:32	0.051
10/2/2007	13:17:32	0.054
10/2/2007	13:32:32	0.067
10/2/2007	13:47:32	0.058
10/2/2007	14:02:32	0.073
10/2/2007	14:17:32	0.059
10/2/2007	14:32:32	0.046
10/2/2007	14:47:32	0.05

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/3/2007
 Start Time: 8:16:10
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 27
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.044
 Minimum: 0.028
 Time of Minimum: 10:01:10
 Date of Minimum: 10/3/2007
 Maximum: 0.079
 Time of Maximum: 12:46:10
 Date of Maximum: 10/3/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/3/2007	8:31:10	0.044
10/3/2007	8:46:10	0.037
10/3/2007	9:01:10	0.033
10/3/2007	9:16:10	0.033
10/3/2007	9:31:10	0.032
10/3/2007	9:46:10	0.033
10/3/2007	10:01:10	0.028
10/3/2007	10:16:10	0.029
10/3/2007	10:31:10	0.028
10/3/2007	10:46:10	0.032
10/3/2007	11:01:10	0.03
10/3/2007	11:16:10	0.035
10/3/2007	11:31:10	0.032
10/3/2007	11:46:10	0.047
10/3/2007	12:01:10	0.034
10/3/2007	12:16:10	0.037
10/3/2007	12:31:10	0.048
10/3/2007	12:46:10	0.079
10/3/2007	13:01:10	0.041
10/3/2007	13:16:10	0.049
10/3/2007	13:31:10	0.073
10/3/2007	13:46:10	0.073
10/3/2007	14:01:10	0.072
10/3/2007	14:16:10	0.071
10/3/2007	14:31:10	0.043
10/3/2007	14:46:10	0.046
10/3/2007	15:01:10	0.042

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/3/2007
 Start Time: 8:19:00
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 27
 Notes: Downwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.041
 Minimum: 0.013
 Time of Minimum: 11:34:00
 Date of Minimum: 10/3/2007
 Maximum: 0.073
 Time of Maximum: 13:34:00
 Date of Maximum: 10/3/2007

Calibration
 Sensor: Aerosol
 Cal. date: 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/3/2007	8:34:00	0.058
10/3/2007	8:49:00	0.052
10/3/2007	9:04:00	0.059
10/3/2007	9:19:00	0.05
10/3/2007	9:34:00	0.043
10/3/2007	9:49:00	0.049
10/3/2007	10:04:00	0.032
10/3/2007	10:19:00	0.025
10/3/2007	10:34:00	0.025
10/3/2007	10:49:00	0.029
10/3/2007	11:04:00	0.019
10/3/2007	11:19:00	0.014
10/3/2007	11:34:00	0.013
10/3/2007	11:49:00	0.042
10/3/2007	12:04:00	0.026
10/3/2007	12:19:00	0.032
10/3/2007	12:34:00	0.052
10/3/2007	12:49:00	0.037
10/3/2007	13:04:00	0.022
10/3/2007	13:19:00	0.042
10/3/2007	13:34:00	0.073
10/3/2007	13:49:00	0.066
10/3/2007	14:04:00	0.059
10/3/2007	14:19:00	0.052
10/3/2007	14:34:00	0.041
10/3/2007	14:49:00	0.051
10/3/2007	15:04:00	0.039

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/4/2007
 Start Time: 7:58:05
 Duration (dd:hh:mm:ss): 00:07:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 29
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.102
 Minimum: 0.046
 Time of Minimum: 14:43:05
 Date of Minimum: 10/4/2007
 Maximum: 0.223
 Time of Maximum: 15:13:05
 Date of Maximum: 10/4/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/4/2007	8:13:05	0.17
10/4/2007	8:28:05	0.134
10/4/2007	8:43:05	0.107
10/4/2007	8:58:05	0.14
10/4/2007	9:13:05	0.153
10/4/2007	9:28:05	0.106
10/4/2007	9:43:05	0.117
10/4/2007	9:58:05	0.085
10/4/2007	10:13:05	0.086
10/4/2007	10:28:05	0.121
10/4/2007	10:43:05	0.098
10/4/2007	10:58:05	0.111
10/4/2007	11:13:05	0.192
10/4/2007	11:28:05	0.103
10/4/2007	11:43:05	0.124
10/4/2007	11:58:05	0.075
10/4/2007	12:13:05	0.067
10/4/2007	12:28:05	0.066
10/4/2007	12:43:05	0.066
10/4/2007	12:58:05	0.052
10/4/2007	13:13:05	0.065
10/4/2007	13:28:05	0.091
10/4/2007	13:43:05	0.131
10/4/2007	13:58:05	0.049
10/4/2007	14:13:05	0.055
10/4/2007	14:28:05	0.069
10/4/2007	14:43:05	0.046
10/4/2007	14:58:05	0.051
10/4/2007	15:13:05	0.223

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/4/2007
 Start Time: 8:04:18
 Duration (dd:hh:mm:ss): 00:07:00:00
 Time constant (seconds): 10
 Log interval (mm:ss): 15:00
 Number of points: 28
 Notes: Downwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.07
 Minimum: 0.041
 Time of Minimum: 13:04:18
 Date of Minimum: 10/4/2007
 Maximum: 0.117
 Time of Maximum: 8:49:18
 Date of Maximum: 10/4/2007

Calibration Sensor: Aerosol
 Cal. date: 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/4/2007	8:19:18	0.113
10/4/2007	8:34:18	0.105
10/4/2007	8:49:18	0.117
10/4/2007	9:04:18	0.108
10/4/2007	9:19:18	0.092
10/4/2007	9:34:18	0.094
10/4/2007	9:49:18	0.086
10/4/2007	10:04:18	0.085
10/4/2007	10:19:18	0.098
10/4/2007	10:34:18	0.101
10/4/2007	10:49:18	0.056
10/4/2007	11:04:18	0.067
10/4/2007	11:19:18	0.074
10/4/2007	11:34:18	0.07
10/4/2007	11:49:18	0.052
10/4/2007	12:04:18	0.059
10/4/2007	12:19:18	0.044
10/4/2007	12:34:18	0.049
10/4/2007	12:49:18	0.057
10/4/2007	13:04:18	0.041
10/4/2007	13:19:18	0.052
10/4/2007	13:34:18	0.064
10/4/2007	13:49:18	0.047
10/4/2007	14:04:18	0.042
10/4/2007	14:19:18	0.046
10/4/2007	14:34:18	0.052
10/4/2007	14:49:18	0.048
10/4/2007	15:04:18	0.044

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/5/2007
 Start Time: 8:19:18
 Duration (dd:hh:mm:ss): 00:06:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 26
 Notes: Downwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.067
 Minimum: 0.037
 Time of Minimum: 11:04:18
 Date of Minimum: 10/5/2007
 Maximum: 0.094
 Time of Maximum: 13:04:18
 Date of Maximum: 10/5/2007

Calibration Sensor: Aerosol
 Cal. date 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/5/2007	8:34:18	0.073
10/5/2007	8:49:18	0.058
10/5/2007	9:04:18	0.052
10/5/2007	9:19:18	0.072
10/5/2007	9:34:18	0.073
10/5/2007	9:49:18	0.081
10/5/2007	10:04:18	0.073
10/5/2007	10:19:18	0.076
10/5/2007	10:34:18	0.052
10/5/2007	10:49:18	0.084
10/5/2007	11:04:18	0.037
10/5/2007	11:19:18	0.04
10/5/2007	11:34:18	0.051
10/5/2007	11:49:18	0.057
10/5/2007	12:04:18	0.043
10/5/2007	12:19:18	0.077
10/5/2007	12:34:18	0.065
10/5/2007	12:49:18	0.082
10/5/2007	13:04:18	0.094
10/5/2007	13:19:18	0.075
10/5/2007	13:34:18	0.067
10/5/2007	13:49:18	0.077
10/5/2007	14:04:18	0.091
10/5/2007	14:19:18	0.07
10/5/2007	14:34:18	0.062
10/5/2007	14:49:18	0.057

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/5/2007
 Start Time: 8:15:27
 Duration (dd:hh:mm:ss): 00:06:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 26
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.101
 Minimum: 0.044
 Time of Minimum: 8:45:27
 Date of Minimum: 10/5/2007
 Maximum: 0.332
 Time of Maximum: 11:45:27
 Date of Maximum: 10/5/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/5/2007	8:30:27	0.045
10/5/2007	8:45:27	0.044
10/5/2007	9:00:27	0.046
10/5/2007	9:15:27	0.044
10/5/2007	9:30:27	0.097
10/5/2007	9:45:27	0.05
10/5/2007	10:00:27	0.045
10/5/2007	10:15:27	0.045
10/5/2007	10:30:27	0.054
10/5/2007	10:45:27	0.059
10/5/2007	11:00:27	0.183
10/5/2007	11:15:27	0.256
10/5/2007	11:30:27	0.062
10/5/2007	11:45:27	0.332
10/5/2007	12:00:27	0.069
10/5/2007	12:15:27	0.065
10/5/2007	12:30:27	0.06
10/5/2007	12:45:27	0.058
10/5/2007	13:00:27	0.12
10/5/2007	13:15:27	0.112
10/5/2007	13:30:27	0.081
10/5/2007	13:45:27	0.301
10/5/2007	14:00:27	0.111
10/5/2007	14:15:27	0.171
10/5/2007	14:30:27	0.055
10/5/2007	14:45:27	0.05

TrakPro Version 3.6.0 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 21591
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/10/2007
 Start Time: 8:25:50
 Duration (dd:hh:mm:ss): 00:07:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 28
 Notes: Downwind

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.028
 Minimum: 0.005
 Time of Minimum: 12:40:50
 Date of Minimum: 10/10/2007
 Maximum: 0.063
 Time of Maximum: 8:40:50
 Date of Maximum: 10/10/2007

Calibration Sensor: Aerosol
 Cal. date 1/15/2007

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
10/10/2007	8:40:50	0.063
10/10/2007	8:55:50	0.055
10/10/2007	9:10:50	0.06
10/10/2007	9:25:50	0.054
10/10/2007	9:40:50	0.051
10/10/2007	9:55:50	0.05
10/10/2007	10:10:50	0.046
10/10/2007	10:25:50	0.042
10/10/2007	10:40:50	0.038
10/10/2007	10:55:50	0.031
10/10/2007	11:10:50	0.036
10/10/2007	11:25:50	0.034
10/10/2007	11:40:50	0.019
10/10/2007	11:55:50	0.015
10/10/2007	12:10:50	0.01
10/10/2007	12:25:50	0.009
10/10/2007	12:40:50	0.005
10/10/2007	12:55:50	0.009
10/10/2007	13:10:50	0.011
10/10/2007	13:25:50	0.008
10/10/2007	13:40:50	0.008
10/10/2007	13:55:50	0.008
10/10/2007	14:10:50	0.011
10/10/2007	14:25:50	0.009
10/10/2007	14:40:50	0.012
10/10/2007	14:55:50	0.013
10/10/2007	15:10:50	0.029
10/10/2007	15:25:50	0.043

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22730
 Test ID: 1
 Test Abbreviation:
 Start Date: 10/10/2007
 Start Time: 8:29:11
 Duration (dd:hh:mm:ss): 00:07:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 28
 Notes: Upwind

Statistics
 Channel: Aerosol
 Units: mg/m³
 Average: 0.043
 Minimum: 0.026
 Time of Minimum: 15:29:11
 Date of Minimum: 10/10/2007
 Maximum: 0.107
 Time of Maximum: 13:59:11
 Date of Maximum: 10/10/2007

Calibration
 Sensor: Aerosol
 Cal. date

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
10/10/2007	8:44:11	0.042
10/10/2007	8:59:11	0.039
10/10/2007	9:14:11	0.04
10/10/2007	9:29:11	0.039
10/10/2007	9:44:11	0.041
10/10/2007	9:59:11	0.036
10/10/2007	10:14:11	0.04
10/10/2007	10:29:11	0.033
10/10/2007	10:44:11	0.04
10/10/2007	10:59:11	0.047
10/10/2007	11:14:11	0.029
10/10/2007	11:29:11	0.035
10/10/2007	11:44:11	0.043
10/10/2007	11:59:11	0.039
10/10/2007	12:14:11	0.038
10/10/2007	12:29:11	0.042
10/10/2007	12:44:11	0.048
10/10/2007	12:59:11	0.045
10/10/2007	13:14:11	0.038
10/10/2007	13:29:11	0.092
10/10/2007	13:44:11	0.066
10/10/2007	13:59:11	0.107
10/10/2007	14:14:11	0.036
10/10/2007	14:29:11	0.032
10/10/2007	14:44:11	0.03
10/10/2007	14:59:11	0.036
10/10/2007	15:14:11	0.033
10/10/2007	15:29:11	0.026

Appendix E
Waste Manifests

Soil



Generator's Hazardous Waste Profile Sheet

Service Agreement on file? Yes No Profile Number NY296603

Check here if there are multiple generating locations for this waste. Attach additional locations.

Check here if a Certificate of Destruction or Disposal is required

Requested Disposal Facility (please select)

Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

- 1. Generator Name: Ulrica Alloys, Inc.
- 2. Site Address: 91 Wurz Ave
- 3. City/ZIP: Ulrica, 13501
- 4. State: NY
- 5. County: Onieda
- 6. Contact Name/Title: Bret Copple
- 7. Email Address: bretc@ulricaalloys.com office@ulricaalloys.com
- 8. Phone: 315 735 0475
- 9. FAX: _____
- 10. NAICS Code: 423930
- 11. Generator USEPA ID #: NYD002252591
- 12. State ID# (if applicable): _____

B. Customer Information same as above

P. O. Number: _____

- 1. Customer Name: O'Brien & Gere
- 2. Billing Address: 5000 Britonfield Pkwy.
- 3. City, State and ZIP: Syracuse, NY, 13221
- 4. Contact Name: Paul Mazurkiewicz
- 5. Contact Email: MazurkPD@obg.com
- 6. Phone: 315 437 6400
- 7. Transporter Name: TBD Waste Management
- 8. Transporter ID # (if appl.): _____
- 9. Transporter Address: _____
- 10. City, State and ZIP: _____

C. Waste Stream Information

- USEPA Hazardous State Hazardous TSCA Non-Hazardous

- 1. Description
 - a. Name of Waste: Hazardous Waste Soil WCS-2
 - b. Process Generating Waste: Remedial Action excavation of soil
 - c. Color: brown (Soil)
 - d. Strong Odor (describe): no
 - e. Physical State at 70°F: Solid Liquid Gas Sludge Other: _____
 - f. Layers? Single layer Multi-layer
 - g. Free Liquid Range (%) 0 to 0 Specific Gravity: approx 1.5 Viscosity: NA BTU/lb: 0
 - h. pH Range: 8.08 to 8.5
 - i. Liquid Flash Point: < 73°F 73°-99°F 100°-139°F 140°-199°F > 200°F N/A
- 2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f
 - a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U)
 - b. If a characteristic hazardous waste, do underlying hazardous constituents(UHCs) apply-(40 CFR 268.48)? Yes No (if yes, list in Section C.2.j)
 - c. Is the waste subject to RCRA Subpart CC Controls-(40 CFR 264.1083 & 265.1084)? Yes No ? Click for Add'l Info
 - If no, does the waste meet the organic LDR Exemption? Yes No
 - If no, does the waste contain <500 ppm volatile organic (VOC's)? Yes No
 - Volatile organic concentration .0140 ppm
 - d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)? Yes No
 - e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards-(40 CFR 268.49)? Yes No
 - If yes, will Underlying Hazardous Constituents apply? (list in C.2.j) Yes No
 - f. Does the waste represented by this profile contain asbestos? Yes No
 - If yes, Friable Non-Friable
 - g. Does the waste represented by this profile contain benzene? Yes No
 - Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)? Yes No
 - If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire



Generator's Hazardous Waste Profile Sheet

Profile Number NY296603

C. Waste Stream Information (continued)

- h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? Yes No
 If yes, does the waste contain <500 ppm VOHAPs at the point of determination? Yes No
- i. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - C.2.j) Yes No
 Were the PCBs imported into the U.S.? Yes No
 Are PCBs regulated under the "Self-Implementing Remediation Section of (Mega) Rule?" 40CFR 761.61(a) Yes No
- j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis): (See Attached - for entering additional constituents)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. soil	99.15	%	99	%
2. PCB's	.85	%	1	%
3.				%
4.				
5.				
6.				

- k. Check any that apply: Pyrophoric Water Reactive OSHA Carcinogen Shock Sensitive Oxidizer Infectious
- l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP? Yes No
 If yes, is it a Table 8 _____ or Table 9 _____ compound?
- m. Does the waste represented by this waste profile sheet contain radioactive material? Yes No
 Is disposal regulated by the Nuclear Regulatory Commission? Yes No
 If NORM, identify isotopes and concentration, _____ pCi/g
- n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? Yes No
 If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity.
 For state mandated clean-up, provide relevant documentation.
- o. Is this a State Hazardous Waste? Yes No If yes, please list applicable codes B002
 If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

- 1. Quantity of Waste
 - a. Event Base/Ongoing (check one)
 - b. Estimated Annual Quantity: 100 Tons Yards Drums Other (specify) _____
 - c. Shipping Frequency: Units: One Time Per: Month Quarter Year One Time Other _____
- 2. Shipping Information
 - a. Packaging:
 - Roll off/End dump: _____ Other: _____
 - Drum Type/Size: _____ Vacuum Box
 - Tanker Super Sack Tote Bin Cubic Yard Boxes
 - b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip c, d and e) Yes No
 - c. Reportable Quantity (lbs.; kgs.): _____ d. Primary/Subsidiary Hazard Class(es)/ID#: 9
 - e. USDOT Shipping Name: Hazardous Waste Solid N.O.S. PG: II

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile. All relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste will be disclosed to the contractor. All changes which occur in the character of the waste will be identified by the Generator and be disclosed to the Contractor prior to providing the waste to the Contractor.

Certification Signature: [Signature] Title: Environmental Manager
 Name (Type or Print): Bret Copple Company Name: Utica Alloys, Inc. Date: 11/07/07

Check if additional information is attached. Indicate the number of attached pages _____



Generator's Hazardous Waste Profile Sheet

Service Agreement on file? Yes No Profile Number NY296599

Check here if there are multiple generating locations for this waste. Attach additional locations.

Check here if a Certificate of Destruction or Disposal is required

Requested Disposal Facility Model City (Hazardous Waste Facility)

Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

- | | |
|--|---|
| 1. Generator Name: <u>Ulica Alloys, Inc.</u> | 7. Email Address: <u>brote@ulicalloys.com office@ulicalloys.com</u> |
| 2. Site Address: <u>91 Wurz Ave</u> | 8. Phone: <u>315 735 0475</u> |
| 3. City/ZIP: <u>Ulica, 13501</u> | 9. FAX: _____ |
| 4. State: <u>NY</u> | 10. NAICS Code: _____ |
| 5. County: <u>Onieda</u> | 11. Generator USEPA ID #: <u>NYD002252581</u> |
| 6. Contact Name/Title: <u>Bret Copple</u> | 12. State ID# (if applicable): _____ |

B. Customer Information same as above

P. O. Number: _____

- | | | |
|--|--|--------------------------|
| 1. Customer Name: <u>O'Brien & Gere</u> | 6. Phone: <u>315 437 8400</u> | FAX: <u>315 437 9800</u> |
| 2. Billing Address: <u>5000 Britonfield Pkwy.</u> | 7. Transporter Name: <u>TBD Waste Management</u> | |
| 3. City, State and ZIP: <u>Syracuse, NY, 13221</u> | 8. Transporter ID # (if appl.): _____ | |
| 4. Contact Name: <u>Paul Mazurkiewicz</u> | 9. Transporter Address: _____ | |
| 5. Contact Email: <u>MazurkPD@obg.com</u> | 10. City, State and ZIP: _____ | |

C. Waste Stream Information

- USEPA Hazardous State Hazardous TSCA Non-Hazardous

1. Description
- a. Name of Waste: Hazardous Waste Soil WCS-1
- b. Process Generating Waste:
Remedial Action excavation of soil
- c. Color: brown (Soil)
- d. Strong Odor (describe): NO
- e. Physical State at 70°F: Solid Liquid Gas Sludge Other: _____
- f. Layers? Single layer Multi-layer
- g. Free Liquid Range (%) 0 to 0 Specific Gravity: 1.5-1.8 Viscosity: NA BTU/lb: 0
- h. pH Range: 8 to 9
- i. Liquid Flash Point: < 73°F 73°-99°F 100°-139°F 140°-199°F > 200°F N/A
2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f Yes No
- a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U)
F002
- b. If a characteristic hazardous waste, do underlying hazardous constituents(UHCs) apply-(40 CFR 268.48)? Yes No (if yes, list in Section C.2.j)
- c. Is the waste subject to RCRA Subpart CC Controls-(40 CFR 264.1083 & 265.1084)? Yes No ? Click for Add'l Info
 If no, does the waste meet the organic LDR Exemption? Yes No
 If no, does the waste contain <500 ppm volatile organic (VOC's)? Yes No
 Volatile organic concentration .12 ppm
- d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)? Yes No
- e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards-(40 CFR 268.49)? Yes No
 If yes, will Underlying Hazardous Constituents apply? (list in C.2.j) Yes No
- f. Does the waste represented by this profile contain asbestos? Yes No
 If yes, Friable Non-Friable
- g. Does the waste represented by this profile contain benzene? Yes No
 Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)? Yes No
 If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire



Generator's Hazardous Waste Profile Sheet

Profile Number NY296599

C. Waste Stream Information (continued)

- h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? Yes No
 If yes, does the waste contain <500 ppm VOHAPs at the point of determination? Yes No
- i. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - C.2.j) Yes No
 Were the PCBs imported into the U.S.? Yes No
 Are PCBs regulated under the "Self-Implementing Remediation Section of (Mega) Rule?" 40CFR 761.61(a) Yes No
- j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis): (See Attached - for entering additional constituents)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. soil	99.88	%	99.77	%
2. Chlorobenzene	.02	%	.03	%
3. Trichloroethene	.1	%	.2	%
4.				
5.				
6.				

- k. Check any that apply: Pyrophoric Water Reactive OSHA Carcinogen Shock Sensitive Oxidizer Infectious
- l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP? Yes No
 If yes, is it a Table 8 _____ or Table 9 _____ compound?
- m. Does the waste represented by this waste profile sheet contain radioactive material? Yes No
 Is disposal regulated by the Nuclear Regulatory Commission? Yes No
 If NORM, identify isotopes and concentration, _____ pCi/g
- n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? Yes No
 If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity.
 For state mandated clean-up, provide relevant documentation.
- o. Is this a State Hazardous Waste? Yes No If yes, please list applicable codes F002
 If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

- 1. Quantity of Waste
 - a. Event Base/Ongoing (check one)
 - b. Estimated Annual Quantity: 500 Tons Yards Drums Other (specify) _____
 - c. Shipping Frequency: Units: one time Per: Month Quarter Year One Time Other _____
- 2. Shipping Information
 - a. Packaging:
 - Roll off/End dump: _____ Other: _____
 - Drum Type/Size: _____ Vacuum Box
 - Tanker Super Sack Tote Bin Cubic Yard Boxes
 - b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip c, d and e) Yes No
 - c. Reportable Quantity (lbs.; kgs.): 100 lbs d. Primary/Subsidiary Hazard Class(es)/ID#: 9
 - e. USDOT Shipping Name: Hazardous Waste Solid N.O.S. PG: III

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile. All relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste will be disclosed to the contractor. All changes which occur in the character of the waste will be identified by the Generator and be disclosed to the Contractor prior to providing the waste to the Contractor.

Certification Signature: Bret Copple Title: Environmental Manager
 Name (Type or Print): Bret Copple Company Name: Ulrica Alloys, Inc Date: 11/07/07

Check if additional information is attached. Indicate the number of attached pages _____

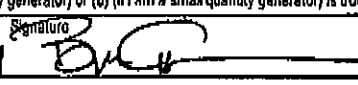
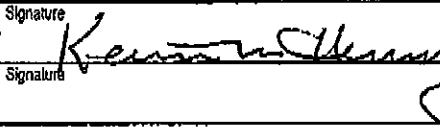
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364520GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 63 UTICA NY 13503 ATTN BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501			
Generator's Phone: (315) 733-0475				U.S. EPA ID Number PAD987347615			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679			
Facility's Phone: (716) 754-0231							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unil Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY296603	001	DT	35,335	K	B007
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information NY296603 PCB Contaminated Soil Service Request # 853613-1 ERG #171 out of Service 11/13/07							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name BRET COPPLE				Signature 		Month Day Year 12 18 07	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: _____ Date leaving U.S.: _____			
	17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name SCOTT SMITH				Signature 		Month Day Year 12 18 07	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name				Signature		Month Day Year	


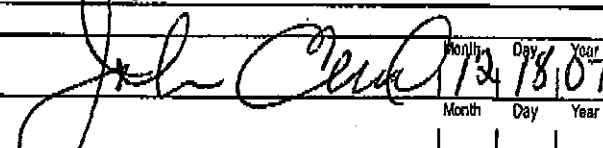
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364524GBF					
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 63 UTICA NY 13503 ATTN BRET COPPLE Generator's Phone: (315) 733-0475				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.					U.S. EPA ID Number PAD987347615					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754-8231					U.S. EPA ID Number NYD049836679					
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes			
			No.	Type						
	X	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE 9, UN3432, III NY296603	001	DT	30.073	K	B007			
14. Special Handling Instructions and Additional Information NY296603 PCB Contaminated Soil Service Request # 853613-2 ERG #171 Out of Service 11/13/07										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name Bret Copple					Signature 		Month 12	Day 18	Year 07	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name Kevin M. Henry					Signature 		Month 12	Day 18	Year 07
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year	
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
18b. Alternate Facility (or Generator)					Manifest Reference Number:			U.S. EPA ID Number		
DESIGNATED FACILITY	Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator)							Month	Day	Year
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator; Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name					Signature		Month	Day	Year	

Please print or type. (Form designed for use on 11x17 (12-pitch) typewriter.)

Form Approved. OMB No. 2050-003

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252691	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 000364523GBF				
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 63 UTICA NY 13503 ATTN BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501						
Generator's Phone: (315) 733-0475									
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.			U.S. EPA ID Number PAD987347515						
7. Transporter 2 Company Name			U.S. EPA ID Number						
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049836679						
Facility's Phone: (716) 754-9231									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY296603		001	DT	315/5	K	B007	
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information NY296603 PCB Contaminated Soil Service Request # 833 613-3 ERG #171 Out of Service 11/13/07									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Bret Copple				Signature 				Month Day Year 12 18 07	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials Transporter signature (for exports only): _____								
	Transporter 1 Printed/Typed Name JOHN ETRICH				Signature 				Month Day Year 12 18 07
Transporter 2 Printed/Typed Name				Signature				Month Day Year	
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
	Facility's Phone: _____								
	18c. Signature of Alternate Facility (or Generator)							Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name _____ Signature _____ Month Day Year _____									

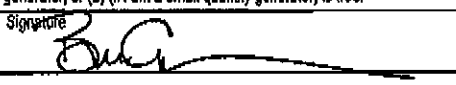
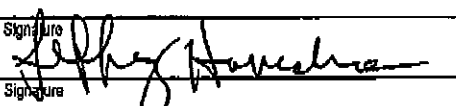
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364521 GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN BRET COPPLE Generator's Phone: (315) 733-0475				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501			
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.					U.S. EPA ID Number PAD 9 8 7 3 4 7 5 1 6		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754-8231					U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RO. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY296603	001	DT	34,500	K		B007
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY 296603 PCB Contaminated Soil ERG #171 Service Request # 853613-4 Out of Service 11/13/07							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations, if export shipment and I am the Primary Exporter. I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name BRET COPPLE					Signature <i>Bret Copple</i>		Month Day Year 12 18 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Rod Jones					Signature <i>Rod Jones</i>		Month Day Year 12 18 07
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	H132	2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name					Signature		Month Day Year


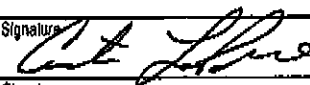
Please print or type. (Form designed for use on ellipse (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364522GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN BRET COPPLE (315) 733-0475				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.				U.S. EPA ID Number PAD987347518			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CVM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 (716) 754-8231				U.S. EPA ID Number NYD049836679			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY296603	001	DT	34,899 EST	K	B007
14. Special Handling Instructions and Additional Information NY296603 PCB Contaminated Soil ERG #171 Out of Service 11/13/07				Service Request # 853613-5			
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name X BRET COPPLE				Signature 		Month Day Year 12 18 07	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	Transporter signature (for exports only): _____						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Jeffrey Hawshon				Signature 		Month Day Year 12 18 07
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

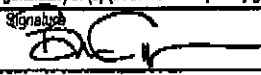
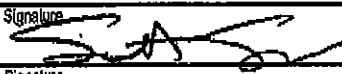
Please print or type. (Form designed for use on elli (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 000364525GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501				
Generator's Phone: (315) 733-0475							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.				U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679			
Facility's Phone: (716) 754-6231							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ. HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002)	001	DT	74.340	P	F002	
14. Special Handling Instructions and Additional Information NY296699 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-1 ERG# 171							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Bret Copple				Signature 		Month Day Year 12 10 07	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Curtis DePietro				Signature 		Month Day Year 12 18 07	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____							
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

Please print or type. (Form designed for use on ellie (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252691	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364526GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501			
Generator's Phone: (315) 733-0476							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107					U.S. EPA ID Number NYD049836679		
Facility's Phone: (716) 754-8231							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599	001	DT	70880 P		F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-2 ERG# 171							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name BRET COPPLE					Signature 		Month Day Year 12 19 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name JOHN SMITH					Signature 		Month Day Year 12 19 07
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Signature		Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name					Signature		Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424- 9300	4. Manifest Tracking Number 000364527GBF				
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE Generator's Phone: (315) 733- 0475			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501						
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.				U.S. EPA ID Number PAD987347515					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1650 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754- 8231				U.S. EPA ID Number NYD049836679					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
	X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S.,g, NA3077,III,(F002) NY296599		001 DT		Est 71260	P	F002	
		2.							
		3.							
		4.							
14. Special Handling Requirements and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-3 ERG# 171 Plate AB58310 (NY)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Bret Copple				Signature 		Month Day Year 12 19 07			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Jeffrey Hamahan				Signature 		Month Day Year 12 19 07			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)				U.S. EPA ID Number					
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name				Signature		Month Day Year			

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 000364528GBF
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5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE Generator's Phone: (315) 733-0475	Generator's Site Address (If different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501
---	---

6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754-8231	U.S. EPA ID Number NYD049836679
---	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RC, HAZARDOUS WASTE, SOLID, N.O.S., NA3077.III,(F002) NY296599	001	DT	67,400 P		F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-4 ERG# 171

16. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name Bret Copple	Signature 	Month 12	Day 19	Year 07
---	---------------	-------------	-----------	------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____
Transporter signature (for exports only): _____	Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials	
Transporter 1 Printed/Typed Name Kevin M Henney	Signature
Transporter 2 Printed/Typed Name	Signature
	Month Day Year 12 19 07

18. Discrepancy	
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection	Manifest Reference Number: _____

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone: _____	
18c. Signature of Alternate Facility (or Generator)	Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	
1. H132	2. _____
3. _____	4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a	
Printed/Typed Name	Signature
	Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364529GBF					
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE Generator's Phone: (315) 733-0475				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.					U.S. EPA ID Number PAD 9 8 7 3 4 7 5 1 5					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1650 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (718) 754-8231					U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	X	1. RC, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599		001	DT	62080	P	F002		
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-5 ERG# 171 853946-4										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name BRET COPPLE								Signature 		Month Day Year 12 19 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name JOHN ETRICH					Signature 			Month Day Year 12 19 07		
Transporter 2 Printed/Typed Name					Signature			Month Day Year		
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
Manifest Reference Number:										
18b. Alternate Facility (or Generator) U.S. EPA ID Number										
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)								Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a										
Printed/Typed Name								Signature		Month Day Year

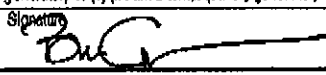
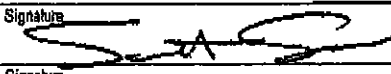
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364530GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE Generator's Phone: (315) 733-0475				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWMI CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754-8231					U.S. EPA ID Number NYD049836679		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		No.	Type				
X	1. RG. HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599	001	DT	570 YOP		F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 859015-16 ERG# 171 859015-1							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(e) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offerior's Printed/Typed Name Bret Copple					Signature <i>Bret Copple</i>		Month Day Year 12 20 07
18. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name DAVID TIABAWK Signature <i>David Tiabawk</i> Month Day Year 12 20 07							
Transporter 2 Printed/Typed Name Signature Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) Facility's Phone: _____					U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year							

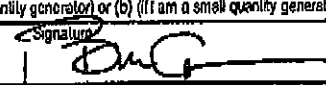
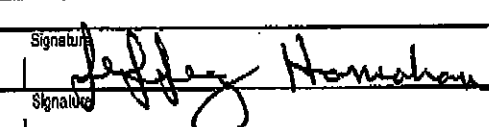
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 000364531GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501			
Generator's Phone: (315) 733-0475							
6. Transporter 1 Company Name U.S. BLK TRANSPORT, INC.					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CVMM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107					U.S. EPA ID Number NYD049836679		
Facility's Phone: (716) 754-8231							
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. UN/L Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9. NA3077, III, (F002) NY296699	001	DT	73280	P	F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853615-7 ERG# 171 854015-2							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name BRET COPPLE					Signature 		Month Day Year 12 20 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name SCOT SMITH				Signature 		Month Day Year 12 20 07	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name					Signature		Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800)424-9300	4. Manifest Tracking Number 000364532GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501				
Generator's Phone: (315) 733-0475			U.S. EPA ID Number PAD987347515				
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049838679				
Facility's Phone: (716) 754-8231			U.S. EPA ID Number				
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RC, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002)	001	DT	75280	P	F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853015-1 ERG# 171 854015-3							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name Bret Copple			Signature 			Month Day Year 12 20 07	
18. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jeffrey Hanrahan			Signature 			Month Day Year 12 20 07	
Transporter 2 Printed/Typed Name			Signature			Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name			Signature			Month Day Year	

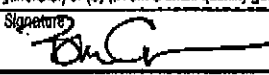
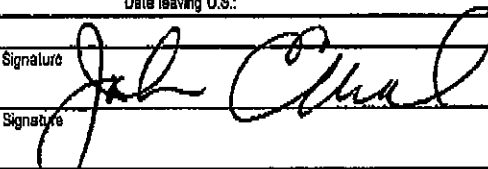
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364533GBF			
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501				
Generator's Phone: (315) 733-0475				U.S. EPA ID Number PAD987347515				
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679				
Facility's Phone: (716) 754-8231								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, HAZARDOUS WASTE, SOLID, N.O.S.,9. NA3077,III,(F002)	001	DT	626.120 P		F002		
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 853675-8 ERG# 171 854015-4								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offenr's Printed/Typed Name BRET COPPLE						Signature <i>[Signature]</i>		
						Month 12	Day 20	Year 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name KEVIN M. HEWAY						Signature <i>[Signature]</i>		
Transporter 2 Printed/Typed Name						Month 12	Day 20	Year 07
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)						U.S. EPA ID Number		
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name						Signature		
						Month	Day	Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364534GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501			
Generator's Phone: (315) 733-0475							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.					U.S. EPA ID Number PAD987347516		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107					U.S. EPA ID Number NYD049836679		
Facility's Phone: (716) 764-8231							
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WT/Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599	001	DT	63260	P	F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 854015-5 ERG# 171 854015-5							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name BRET COPPLE					Signature 		Month Day Year 12 20 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name JOHN ETRICH					Signature 		Month Day Year 12 20 07
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Signature		Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name					Signature		Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364535GBF
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5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE	Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501
Generator's Phone: (315) 733-0475	

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.	U.S. EPA ID Number P A D 9 8 7 3 4 7 5 1 5
---	--


7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107	U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9
Facility's Phone: (716) 754-8231	


9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ. HAZARDOUS WASTE, SOLID, N.O.S., NA3077.III.(F002) NY296599	001	DT	557 32.5 T 31.6 T		F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE	SERVICE REQUEST# 853675-10 854210-1
ERG# 171	

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offlor's Printed/Typed Name BRET COPPLE	Signature 	Month Day Year 12 21 07
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16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____ Date leaving U.S.: _____
--	---

17. Transporter Acknowledgment of Receipt of Materials		
Transporter 1 Printed/Typed Name Robert K Entwistle	Signature 	Month Day Year 12 21 07
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number: _____					

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone: _____	



18c. Signature of Alternate Facility (or Generator)	Month Day Year
---	----------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a			
Printed/Typed Name	Signature	Month Day Year	

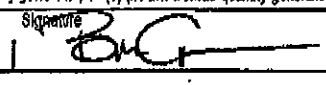
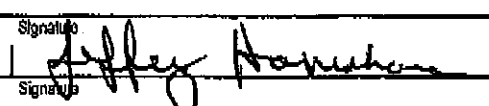
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364536GBF			
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501					
Generator's Phone: (315) 733-0475								
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.			U.S. EPA ID Number PAD987347515					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107			U.S. EPA ID Number NYD049836679					
Facility's Phone: (716) 754-8231								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., NA3077, III, (F002) NY296699	001	DT	75,700	P	F002		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information NY296699 SOIL WITH TRICHOETHENE SERVICE REQUEST# 8-63025-110 ERG# 171 859210-2								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name BRET COPPLE			Signature 		Month Day Year 12 21 07			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Scott Smith			Signature 		Month Day Year 12 21 07			
Transporter 2 Printed/Typed Name			Signature		Month Day Year			
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)			U.S. EPA ID Number					
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)			Signature		Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
H132								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name			Signature		Month Day Year			


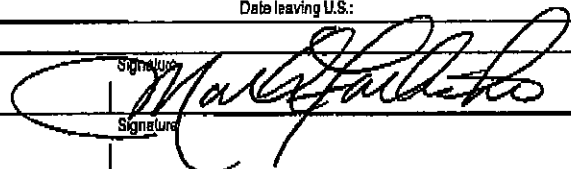
Please print or type. (Form designed for use on 12-pitch typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364537GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE				Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501			
Generator's Phone: (315) 733-0475							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC.				U.S. EPA ID Number PAD987347615			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CVM CHEMICAL SERVICES, L.L.C. 1650 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679			
Facility's Phone: (716) 764-8231							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599	001	DT	73160 P		F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY 296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 8502075-12 ERG# 171 AB-58310 (NY) 8501210-3							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exportor, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Bret Copple				Signature 		Month Day Year 12 21 07	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jeffrey Hanrahan				Signature 		Month Day Year 12 21 07	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name				Signature		Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (800) 424- 9300	4. Manifest Tracking Number 000364538GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501				
Generator's Phone: (315) 733- 0476							
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.				U.S. EPA ID Number PAD987347516			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NYD049836679			
Facility's Phone: (716) 764- 8231							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/VOL	13. Waste Codes	
		No.	Type				
X	1. RG, HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (F002) NY296599	001	DT	6820	P	F002	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information NY296599 SOL WITH TRICHOETHENE SERVICE REQUEST# 859210-9/ ERG# 171							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name BRET COPPLE				Signature 	Month 12	Day 21	Year 07
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name MARK FALTISKO Signature  Month 12 Day 20 Year 07							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) Facility's Phone: _____				U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name				Signature	Month	Day	Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424- 9300	4. Manifest Tracking Number 000364539 GBF
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5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN: BRET COPPLE Generator's Phone: (315) 733- 0476	Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVE UTICA NY 13501
---	--

6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.	U.S. EPA ID Number PAD987347515
--	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD. MODEL CITY NY 14107 Facility's Phone: (716) 754- 8231	U.S. EPA ID Number NY D 0 4 9 8 3 6 5 7 9
---	--

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, HAZARDOUS WASTE, SOLID, N.O.S., NA3077, III, (P002) NY296599	001	DT	6960	P	F002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information NY296599 SOIL WITH TRICHOETHENE SERVICE REQUEST# 854210-5 ERG# 171

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name Bret Copple	Signature <i>Bret Copple</i>	Month Day Year 12 21 07
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16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
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17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name DAVID TIOABACK	Signature <i>David Tioaback</i>	Month Day Year 12 21 07
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
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18b. Alternate Facility (or Generator) Facility's Phone:	Manifest Reference Number:	U.S. EPA ID Number
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18c. Signature of Alternate Facility (or Generator)	Month Day Year
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19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name	Signature	Month Day Year
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CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 000364628GBF		
5. Generator's Name and Mailing Address UTICA ALLOYS INC 91 WURZ AVE PO BOX 53 UTICA NY 13503 ATTN BRET COPPLE			Generator's Site Address (if different than mailing address) UTICA ALLOYS 91 WURZ AVENUE UTICA NY 13501				
Generator's Phone: (315) 733-0476							
6. Transporter 1 Company Name U.S.BULK TRANSPORT, INC.				U.S. EPA ID Number P A D 9 8 7 3 4 7 5 1 8			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.L.C. 1650 BALMER RD. MODEL CITY NY 14107				U.S. EPA ID Number NY D 0 4 9 8 3 6 6 7 9			
Facility's Phone: (716) 754-8231							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY296603	001	DT	3583	K	B007
14. Special Handling Instructions and Additional Information NY296603 PCB Contaminated Soil Service Request # 8452-15 ERG #171							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Bret Copple				Signature 		Month Day Year 12 21 07	
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name JOHN E TRICH		Signature 		Month Day Year 12 21 07		
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

LDR NOTIFICATION OR CERTIFICATION FORM For New York Regulated PCB Waste

This form is required for wastes containing 50 ppm PCB or greater. The profiled waste on the manifest number indicated below is listed hazardous waste ("B-coded") in NY. Note: 50-500 ppm PCB drained articles and small capacitors (as defined in 40CFR761.3) are not regulated by NY State. Please complete items 1- 8, and send with the first shipment of waste/profile.

- 1.) Generator Name UTICA Alloys
 2.) Manifest Number 0003645206BF 3.) CWM Profile# NY296603
 4.) Please check *all* boxes that apply.

NY Waste Code	Identity/Type of PCB Waste
B001	<input type="checkbox"/> Concentrated PCB Oil
B002	<input type="checkbox"/> Oil/liquid 50-499 ppm PCBs
B003	<input type="checkbox"/> Oil/liquid 500 ppm or greater PCBs
B004	Manufactured PCB Articles 50-499 ppm: <input type="checkbox"/> transformers <input type="checkbox"/> motors <input type="checkbox"/> switches <input type="checkbox"/> cable <input type="checkbox"/> pumps <input type="checkbox"/> pipe <input type="checkbox"/> large capacitors <input type="checkbox"/> bushings <input type="checkbox"/> other (specify):
B005	Manufactured PCB Articles (other than transformers) 500 ppm or greater: <input type="checkbox"/> motors <input type="checkbox"/> switches <input type="checkbox"/> cable <input type="checkbox"/> pumps <input type="checkbox"/> pipe <input type="checkbox"/> large capacitors <input type="checkbox"/> bushings <input type="checkbox"/> other (specify):
B006	<input type="checkbox"/> PCB Transformers 500 ppm or greater
B007	Other PCB Wastes: <input checked="" type="checkbox"/> soil <input type="checkbox"/> sludge <input type="checkbox"/> clothing <input type="checkbox"/> rags <input type="checkbox"/> wood <input type="checkbox"/> other (specify):

5.) Check *one* box as appropriate.

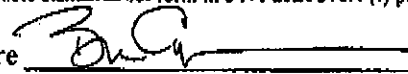
CERTIFICATION - WASTE MEETS LAND DISPOSAL TREATMENT STANDARDS

I am the generator of the waste as identified above, that is restricted under 6 NYCRR Part 376. I have determined that this waste meets all applicable treatment standards set forth in 6 NYCRR 376 and, therefore, it can be landfilled without further treatment. Waste does not include solidified B002 material (liquid with PCBs 50-500ppm).

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 6 NYCRR Part 376, section 376.4, and all applicable prohibitions set forth in 376.3(b) of part 376 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

NOTIFICATION - WASTE DOES NOT MEET LAND DISPOSAL TREATMENT STANDARDS

I am the generator of a waste restricted under 6 NYCRR Part 376 as identified above. I notify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste does not comply with the treatment standards specified in 6 NYCRR Part 376.4 (f). This waste must be treated to the applicable standards set forth in 6 NYCRR 376.4 (f) prior to land disposal.

- 6.) Signature 
 7.) Title COMPLIANCE MANAGER 8.) Date 12/18/07

12/17/07

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

MDC-NY296599

Generator Name: UTICA ALLOYS INC.

Manifest Doc. No.: 000304525 GRF

Profile Number: NY296599

State Manifest No: _____

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater Wastewater _____
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent treatment standards are listed on the following page. If F039, multi-source leachate applies, those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	F002		X	D
2				
3				
4				

To identify F039 or D001-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here: _____
 If no UNCs are present in the waste upon its initial generation check here:
 To list additional USEPA waste code(s) and subcategory(ies), use the supplemental sheet provided (CWM-2005-D) and check here: _____
 Disposal facility monitors for all UNCs check here _____
 If waste will be managed in a system regulated under the CWA, or a Class 1 injection well under the SDWA check here _____

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, B5, B6, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, B5, B6, or D you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.)

A. RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.
 For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.45 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature: [Signature] Title: Compliance Manager Date: 12/18/07
 1990 Chemical Waste Management, Inc. - 08/99- Form CWM-2005-C

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (PHASE IV) -REVERSE SIDE

MDC-NY296599

SOLVENT

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS

F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	1 Treatment Standard		F001 through F005 spent solvent constituents and their associated USEPA hazardous waste code(s).	1 Treatment Standard	
	Wastewaters	Nonwastewaters		Wastewaters	Nonwastewaters

1 All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

2 For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of constituents or less than 10 x the standards listed.

SUBCATEGORY REFERENCE

- D001:
 - A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a)(1) High TOC subcategory.
 - B. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.

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Water

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY 15 0 0 2 2 5 2 5 9 1	2. Page 1 of 1	3. Emergency Response Phone (203) 230-6745	4. Manifest Tracking Number 000043397 UIS			
5. Generator's Name and Mailing Address UTICA ALLOYS INC. 91 WURZ AVENUE UTICA, NY 13501				Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: (315) 735-4478 ATTENTION COPPLE								
6. Transporter 1 Company Name UNITED INDUSTRIAL SERVICES				U.S. EPA ID Number CTD0021816885				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address BRIDGEPORT UNITED RECYCLING 50 CROSS STREET BRIDGEPORT, CT 06610				U.S. EPA ID Number CTD0002593887				
Facility's Phone: (203) 334-1666								
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1.	RO, HAZARDOUS WASTE, LIQUID, N.O.S., (1,1 DICHLOROETHYLENE), (VINYL CHLORIDE), 9, HAZARDOUS POLYMER	001	TT	2381	8	EQ01	DW03	DWA3
2.								
3.								
4.								
14. Special Handling Instructions and Additional Information 32351LSLM EMERGENCY RESPONSE GUIDE #171								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Blind				Signature [Signature]		Month Day Year 11 16 87		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name [Name]				Signature [Signature]		Month Day Year 11 16 87		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a								
Printed/Typed Name				Signature		Month Day Year		



UNITED INDUSTRIAL SERVICES

DIVISION OF UNITED OIL RECOVERY, INC.

136 GRACEY AVENUE MERIDEN, CT 06451-2270
TEL. (203) 238-6745
FAX (203) 630-2503

WORK ORDER

Work Order No : 00676476 Date : 11/14/07
000001
085001 GC: 1 UTI004
OBRIEN & BERE INC OF N AMERICAUTICA ALLOYS INC.
5000 BRITTON FIELD PKWY 91 WURZ AVENUE
P O BOX 4873
SYRACUSE, NY 13220-5240 UTICA, NY 13501
MARK LOWERY BRET COPPLE
(315) 437-6400 (315) 735-0475

3235ILSLM UTICA ALLOYS INC. - HAZ GR 2381 GALS
MANIFEST: 000043397UIS P.O. #: 90411016NSB

SCOPE OF WORK: (RM) P/O APPROX 4000G OF HAZARDOUS GROUND WATER.

CALLER IN BY: CHARLIE S HAND IN REQ TIME:
DAY/HRS OPER: EXP QTY: 4000
REP(S): CST/RM
SITE CONTACT: BRET COPPLE (315) 735-0475

DRIVER NAME Tony Longo TRUCK # TR17 TPL# 1420
LEAVE YARD 4:15 ARRIVE SITE 8:00
LEAVE SITE 9:00 ARRIVE PLANT
ON SITE TIME
SOURCE OF WASTE: DRUMS TANK OTHER
APPROX. QUANTITY OF SLUDGE
LIGHT WEIGHT GROSS WEIGHT
CERTIFIED SCALE USED
DRIVER COMMENTS

THANK YOU FOR THE OPPORTUNITY TO SERVE YOUR WASTE REMOVAL NEEDS

CUSTOMER AGREES TO PAY SERVICE CHARGES OF 1% PER MONTH OR THE HIGHEST RATE ALLOWED BY LAW, (WHICHEVER IS LESSER), FROM THE DUE DATE OF EACH INVOICE TO DATE OF PAYMENT. IN THE EVENT CUSTOMER'S ACCOUNT IS PLACED FOR COLLECTION, CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

Handwritten signature: Rick Zappala
11/16/07

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002252591	2. Page 1 of 1	3. Emergency Response Phone (203) 238-6745	4. Manifest Tracking Number 000043396 UIS		
5. Generator's Name and Mailing Address UTICA ALLOYS INC. 41 WURZ AVENUE UTICA, NY 13501 (315) 735-0475 ATTN: BRET COOPER				Generator's Site Address (if different than mailing address) SAME			
6. Transporter 1 Company Name UNITED INDUSTRIAL SERVICES				U.S. EPA ID Number CTD021816089			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address BRIDGEPORT UNITED RECYCLING 200 CROSS STREET BRIDGEPORT, CT 06610 (203) 334-1666				U.S. EPA ID Number CTD002593887			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RD, HAZARDOUS WASTE, LIQUID, N.O.S., (1,1-DICHLOROETHYLENE) (VINYL CHLORIDE), 9, NA3002, PGIII		001 T		4570	G	P001 D029 D042
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 323310SLM EMERGENCY RESPONSE GUIDE 6171							
16. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name RICH FAIAS				Signature <i>[Signature]</i>		Month Day Year 11/16/07	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name DANIEL J SAUL				Signature <i>[Signature]</i>		Month Day Year 11/16/07	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY



UNITED INDUSTRIAL SERVICES

DIVISION OF UNITED OIL RECOVERY, INC.

136 GRACEY AVENUE MERIDEN, CT 06451-2270
TEL. (203) 238-6745
FAX (203) 630-2503

WORK ORDER

Work Order No : 00675475 Date : 11/14/07
000001
00001 GC: 1 UTI004
OBRIEN & BERE INC OF N AMERICAUTICA ALLOYS INC.
5000 BRITTON FIELD PKWY 91 WURZ AVENUE
P O BOX 4873
SYRACUSE, NY 13220-5240 UTICA, NY 13501
MARK LOWERY BRET COPPLE
(315) 437-6400 (315) 735-0475

3235ILSLM UTICA ALLOYS INC. - HAZ OR 4570 GALS
MANIFEST: 000043396UIS P.O. #: 50411016NSB

SCOPE OF WORK: (RM) P/O APPROX 40000 OF HAZARDOUS
GROUND WATER

CALLED IN BY: CHARLIE S HAND IN REQ TIME:
DAY/HRS OPER: EXP QTY: 4000
REP(S): CST/RM
SITE CONTACT: BRET COPPLE (315) 735-0475

DRIVER NAME Paul TRUCK # 46 TRL# 7K13
LEAVE YARD 4:55 AM ARRIVE SITE 8:00 AM
LEAVE SITE 9:00 AM ARRIVE PLANT
ON SITE TIME 1 HOUR MANIFEST/BOL# 000043396 ULS
SOURCE OF WASTE: DRUMS TANK OTHER frac tank
APPROX. QUANTITY OF SLUDGE
LIGHT WEIGHT 35820 GROSS WEIGHT
CERTIFIED SCALE USED
DRIVER COMMENTS

THANK YOU FOR THE OPPORTUNITY TO SERVE YOUR WASTE REMOVAL NEEDS

CUSTOMER AGREES TO PAY SERVICE CHARGES OF 1% PER MONTH OR THE HIGHEST RATE ALLOWED BY LAW, (WHICHEVER IS LESSER), FROM THE DUE DATE OF EACH INVOICE TO DATE OF PAYMENT. IN THE EVENT CUSTOMER'S ACCOUNT IS PLACED FOR COLLECTION, CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

Signature Rich Fagan Date 11.16.07

UNITED INDUSTRIAL SERVICES LAND BAN NOTIFICATION FORM 1

Please elect proper Land Ban Notification: (you are encouraged to confirm the determination with your regulatory agency if in doubt)

With the initial shipment of waste stream (Profile) to Norlite each Generator must send this Land Ban Notification. No further notification is necessary on subsequent shipments of the same waste stream until such time that the waste changes, in which case a new Notification Form must be submitted (6NYCRR 376 1(G)).

I elect or am required by my state to submit a Land Ban Notification with each shipment.

GENERATOR NAME/ LOCATION: UTICA ALLOYS INC 91 WUZ AVE, UTICA, NY 13501

EPA ID Number: NYD002252591

MANIFEST Number: 000043396UIS

DATE: 11/15/07

Waste Analysis Available Yes / No / On file at facility (circle one)

This Waste is Subject to LDR.

Profile#	RCRA WASTE CODES (LIST ALL THAT APPLY)	Table II SUBCATEGORY <i>Select Key # if applicable</i>	TREATABILITY GROUP <i>check all that apply</i>		REGULATED CONSTITUENTS FOR: D001, D002, D012-D043, F001- F005 & F039
			d Non-Wastewater >1% TOC & >1% TSS	E Wastewater	f FROM TABLE I <i>List all applicable constituents and/or Key Below</i>
a	b	c			
3235ILSLM	F001 D029 D043	1	X		12, 23, 267

REGULATED CONSTITUENTS KEY FOR F001, F002, F003, F004 & F005 (Column f)

1. Acetone	8. m-Cresol	15. Ethyl ether	22. Pyridine	28. Trichloroethylene
2. Benzene	9. p-Cresol	16. Isobutyl alcohol	23. Tetrachloroethylene	29. Trichloromonofluoromethane
3. n-Butyl alcohol	10. Cresol-mixed	17. Methanol	24. Toluene	30. Xylenes-mixed isomers (sum of o-,m-, and p-xylene concentrations)
4. Carbon disulfide	11. Cyclohexanone	18. Methylene chloride	25. 1,1,1-Trichloroethane	31. 2-Nitropropane
5. Carbon tetrachloride	12. o-Dichlorobenzene	19. Methyl ethyl ketone	26. 1,1,2-Trichloroethane	
6. Chlorobenzene	13. Ethyl acetate	20. Methyl isobutyl ketone	27. 1,1,2-Trichloro- 1,2,2- trifluoroethane	
7. o-Cresol	14. Ethyl benzene	21. Nitrobenzene		

The information provided here is true and accurate to the best of my knowledge. The information here is submitted solely to comply with the LDR found in 40 CFR 268 and NYS Regulation 6NYCRR Part 376 (Check here if the waste meets the treatment standards) _____. I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D and 6NYCRR section 376.4. I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Signature: 

Print Name: RICH ZAJTAC

Date: 11/16/07

Fill

Invoice Number: 1120811
 Page: 1
 Invoice Date: 10/13/07
 Terms of Sale: NET 30 DAYS
 Customer Number: 1516623

Invoice



Plant: ORISKANY FALLS
 S.O.: 694220
 P.O.:

TO INSURE PROPER CREDIT, RETURN
 BOTTOM PORTION WITH PAYMENT.
 REMIT TO:

Hanson Aggregates Inc.
 23583 Network Place
 Chicago, IL 60673-1235

ABSCOPE ENVIRONMENTAL INC
 P O BOX 487
 CANASTOTA, NY 13032

Fed ID#: 16-0928494

This invoice is subject to Hanson's General Terms and Conditions of Sale, and any additional Terms and Conditions contained in Hanson's Quotation, or Order Acknowledgement.

Ticket Date	Ticket Number	Ship to Reference	Prod No.	Product Description	QTY.	UM	Unit Price	Amount	Freight	Sales Tax	Extended Price
10/08/07	367631	CT UTICA ALLOY	074335	Crusher Run	24.27	Ton			0.00		
10/08/07	367672	CT UTICA ALLOY	074335	Crusher Run	23.91	Ton			0.00		
10/09/07	367739	CT UTICA ALLOY	074335	Crusher Run	25.65	Ton			0.00		
10/09/07	367854	CT UTICA ALLOY	074335	Crusher Run	24.94	Ton			0.00		
10/09/07	367855	CT UTICA ALLOY	074335	Crusher Run	25.22	Ton			0.00		
10/10/07	367935	CT UTICA ALLOY	074335	Crusher Run	23.05	Ton			0.00		
10/10/07	367935	CT UTICA ALLOY	074335	Crusher Run	24.94	Ton			0.00		
10/10/07	367951	CT UTICA ALLOY	074335	Crusher Run	22.90	Ton			0.00		
10/10/07	367973	CT UTICA ALLOY	074335	Crusher Run	24.46	Ton			0.00		
10/10/07	368000	CT UTICA ALLOY	074335	Crusher Run	23.28	Ton			0.00		
10/11/07	368105	CT UTICA ALLOY	074335	Crusher Run							
INVOICE LINE-					242.62	Ton			\$0.00		
--PRODUCT SUMMARY--					242.62				\$0.00		
TOTAL INVOICE ---->											

VENDOR # 800161
 INVOICE # 1120811
 DATE 10/13/07

5002/27862/60

ENTERED OCT 25 2007

INVOICE TOTAL: [REDACTED]

For inquiries please call: 800-463-1774

(Please detach and include with payment)

C
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ABSCOPE ENVIRONMENTAL INC
 P O BOX 487
 CANASTOTA, NY 13032

Customer Number: 1516623
 Invoice Number: 1120811
 Invoice Date: 10/13/07
 Tax Code: NY-ONEID

INVOICE TOTAL: [REDACTED]

AMOUNT PAID: [REDACTED]



408
 292
 50
 791
 180
 2

27862

Invoice

Fred Burrows Trucking and Excavating, LLC
 437 Oriskany Boulevard
 Whitesboro, NY 13492
 Phone (315) 736-1971 Fax (315) 736-0620
 www.FredBurrows.com

Date	Invoice #
10/10/2007	14261

Bill To
Abscope Environmental, Inc. 1 Commercial Drive P.O. Box 487 Canastota, NY 13032

Ship To
Utica Alloys Leland Ave Utica, NY

P.O. No.	Terms	Due Date	Project	Job
	Net 14 Days	10/24/2007		

Date	Description	Unit	Quantity	Rate	Amount
9/24/2007	82449, 82450 - Crusher Run	ton	50.00		
10/3/2007	366993, 366994, 367028 - Trucking ONLY of Crusher Run	ton	72.00		
10/4/2007	367113, 367116, 367150, 367152, 367186, 367187 - Trucking ONLY of Crusher Run	ton	146.51		
10/5/2007	367316, 367336 - Trucking ONLY of Crusher Run	ton	48.15		
10/8/2007	367631, 367672 - Trucking ONLY of Crusher Run	ton	48.18		
10/9/2007	367738, 367853, 367855 - Trucking ONLY of Crusher Run	ton	75.81		

VENDOR # 100107
 INVOICE # 14261
 DATE 10/10/07

5002/27862/60

ENTERED OCT 17 2007

Subtotal	
Sales Tax (9.0%)	
Total	

A finance charge of 2% per month (24% per annum) will be added on all accounts past due.

27862

Invoice Number: 1117334
Page: 1
Invoice Date: 10/06/07
Terms of Sale: NET 30 DAYS
Customer Number: 1516623

Invoice



Hanson

Plant: ORISKANY FALLS
S.O.: 694220
P.O.:

TO INSURE PROPER CREDIT, RETURN
BOTTOM PORTION WITH PAYMENT.
REMIT TO:

Hanson Aggregates Inc.
23583 Network Place
Chicago, IL 60673-1235

ABSCOPE ENVIRONMENTAL INC
P O BOX 487
CANASTOTA, NY 13032

Fed ID#: 16-0928494

This Invoice is subject to Hanson's General Terms and Conditions of Sale, and any additional Terms and Conditions contained in Hanson's Quotation, or Order Acknowledgement.

Ticket Date	Ticket Number	Ship to Reference	Prod No.	Product Description	QTY.	UM	Unit Price	Amount	Freight	Sales Tax	Extended Price
10/03/07	366993	CT UTICA ALLOY	074335	Crusher Run	24.78	Ton			0.00		
10/03/07	366994	CT UTICA ALLOY	074335	Crusher Run	24.45	Ton			0.00		
10/03/07	367029	CT UTICA ALLOY	074335	Crusher Run	22.77	Ton			0.00		
10/04/07	367113	CT UTICA ALLOY	074335	Crusher Run	25.24	Ton			0.00		
10/04/07	367116	CT UTICA ALLOY	074335	Crusher Run	23.88	Ton			0.00		
10/04/07	367150	CT UTICA ALLOY	074335	Crusher Run	22.98	Ton			0.00		
10/04/07	367152	CT UTICA ALLOY	074335	Crusher Run	25.18	Ton			0.00		
10/04/07	367186	CT UTICA ALLOY	074335	Crusher Run	24.71	Ton			0.00		
10/04/07	367187	CT UTICA ALLOY	074335	Crusher Run	24.52	Ton			0.00		
10/05/07	367253	CT UTICA ALLOY	074335	Crusher Run	22.87	Ton			0.00		
10/05/07	367276	CT UTICA ALLOY	074335	Crusher Run	22.93	Ton			0.00		
10/05/07	367291	CT UTICA ALLOY	074335	Crusher Run	24.58	Ton			0.00		
10/05/07	367304	CT UTICA ALLOY	074335	Crusher Run	22.88	Ton			0.00		
10/05/07	367316	CT UTICA ALLOY	074335	Crusher Run	23.72	Ton			0.00		
10/05/07	367324	CT UTICA ALLOY	074335	Crusher Run	24.10	Ton			0.00		
10/05/07	367336	CT UTICA ALLOY	074335	Crusher Run	24.43	Ton			0.00		
10/05/07	367343	CT UTICA ALLOY	074335	Crusher Run	24.58	Ton			0.00		
INVOICE LINE-					408.60	Ton			\$0.00		
--PRODUCT SUMMARY--					408.60				\$0.00		
074335 Crusher Run					408.60						
TOTAL INVOICE					408.60						

VENDOR # 8001
INVOICE # 1117334
DATE 10/16/07
5002/27862/60

ENTERED OCT 17 2007

For inquiries please call: 990-463-1774

(Please detach and include with payment)

C
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ABSCOPE ENVIRONMENTAL INC
P O BOX 487
CANASTOTA, NY 13032

Customer Number: 1516623
Invoice Number: 1117334
Invoice Date: 10/06/07
Tax Code: NY-ONEID

INVOICE TOTAL: [REDACTED]

AMOUNT PAID: [REDACTED]



Appendix F
Groundwater Monitoring
Report

REPORT

**Post-IRM Ground Water Moinitoring
Program**

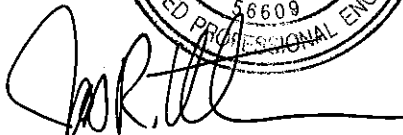
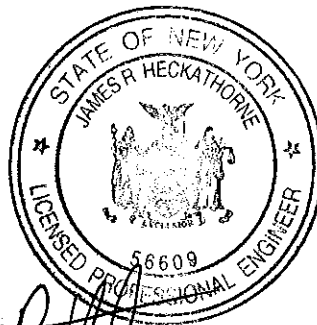
**ELG Utica Alloys
Utica, New York**

February 2009

REPORT

Post-IRM Ground Water Monitoring Program

*ELG Utica Alloys
Utica, New York*



James R. Heckathorne, P.E.
O'Brien & Gere Engineers, Inc.

February 2009



O'BRIEN & GERE

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1. Introduction

This is the Interim Remedial Measures (IRM) Ground Water Monitoring Report for the ELG Utica Alloys, Inc. property located in Utica, New York. Ground water sampling was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Interim Remedial Measures Work Plan, dated September 2007. The IRM was conducted as part of an Order on Consent, Index Number A6-0001-98-08, dated September 24, 1999 entered into by Utica Alloys Inc, and the NYSDEC. As detailed in the IRM Work Plan, two separate reports presenting soil removal activities and ground water sampling results will be produced as a result of IRM activities. The Soil Removal Report was submitted for NYSDEC's review in May 2008. This report describes the activities conducted during completion of ground water monitoring at the site between December 2007 and October 2008.

The objectives of the ground water sampling portion of the IRM consisted of the following:

- Evaluate changes in ground water quality following removal of impacted soil from the source area as documented in the Soil Removal Report (May 2008).
- Evaluate if the existing monitoring network is sufficient to monitor the ground water plume.

1.1. Background

The Utica Alloys property is located at the corner of Wurz Ave. and Leland Ave. in an industrialized area of the City of Utica, New York as shown on Figure 1. The Utica Alloys facility recycles specialty metal turnings generated off-site by machining operations typically connected with the production of aerospace parts and equipment. The site is approximately 1.5 acres in size and improved with a two-story, approximately 38,000 sq ft building that contains offices, laboratories, and recycling machinery. The remainder of the property is used for outside storage of bundled metal turnings pending processing. A site map is provided as Figure 2.

A Remedial Investigation and Interim Remedial Measures Alternative Analysis program was initiated in 1999 by Stearns & Wheler. These activities were conducted in accordance with Consent Order A6-0001-98-08 following discovery of volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) at the site. Additional investigations were completed in 2005 to further characterize site conditions. The latter evaluation is summarized in the Supplemental Remedial Investigation (Site # 6-33-047) completed by Stearns & Wheler dated September 2005.

Based on the findings of the investigations, Stearns & Wheler identified three issues of concern including:

- the presence of PCBs in shallow soil exceeding recommended soil cleanup objectives (RSCOs) in several areas in the outside storage area of the site (PCB Areas),
- the presence of trichloroethene (TCE) in soils exceeding RSCOs in the vicinity of the former TCE tank on the west side of the building (TCE Areas), and
- the presence of TCE in the ground water at concentrations above Class GA Ground Water Standards as presented in NYSDEC Technical and Operational Guidance Series 1.1.1 (TOGS), June 1998, amended in April 2000 and June 2004, in the vicinity and immediately downgradient (north) of the former TCE tank and TCE Areas.

IRM soil excavation activities were completed in October 2007. A total of 83.2 tons of soil was excavated and removed from seven PCB Areas. A total of 527.5 tons of soil was excavated and removed from three TCE containing soil Areas. In addition, a total of 6,951 gallons of water was pumped from one of the TCE containing Area excavations (Area 3) and transferred for off-site disposal.

)
,

2. Ground Water Monitoring Program

2.1. General

This section presents field activities conducted at the site during implementation of the ground water monitoring program (GWMP). As previously discussed, TCE impacted soils were excavated from three Areas identified in the IRM Work Plan. Subsequent ground water monitoring is described in the following sections.

2.2. Field Activities

Monitoring Well Installation

Of the six monitoring wells described in the IRM Work Plan for sampling as part of the GWMP, only five monitoring wells were located. Well MW-8 was identified as missing and presumed destroyed. Well MW-3 was removed during excavation activities at TCE containing Area 3. Well MW-8 was subsequently replaced while well MW-3 was abandoned. Two new wells (MW-10 and MW-11) were installed adjacent to the TCE excavations to evaluate ground water quality as depicted on Figure 2.

On August 1, 2008, replacement well MW-8R was installed adjacent to, and replicated construction of, missing well MW-8. In addition, three protective bollards were installed around the well. On December 3 and December 6, 2007, wells MW-10 and MW-11 were installed in the vicinity of the TCE excavations. Well construction information for these wells is presented in Table 1.

Continuous subsurface soil samples were collected during drilling of each well and described by the on-site hydrogeologist. The soil description included soil color, moisture content, grain size, staining, and/or chemical odors. Additionally, photoionization detector (PID) screening of each sample evaluated the presence of volatile organic compounds (VOCs). Descriptions were recorded on boring logs, which are provided in Appendix A. In general, wells were completed with 1 or 2-inch PVC well material, installed at 13 ft below ground surface (bgs), and constructed of 10-ft of 0.010-inch slotted screen flush-threaded to solid riser pipe to grade. Sand and bentonite grout were then added to complete well installation.

Newly installed wells were developed by removing 5 well volumes of water with a bailer to remove fine-grained materials to the extent possible. Development logs are provided in Appendix B.

Ground Water Sampling and Analysis

The IRM Work Plan outlined that ground water samples will be collected from the following six monitoring wells: MW-3, MW-4, MW-7, MW-8, MW-9, and MW-B3R. As noted above, well MW-8 was determined to be missing and subsequently replaced with well MW-8R. Well MW-3 was removed during soil excavation activities and two wells were subsequently installed within the area of the TCE-impacted soil removal. As a result, the ground water monitoring network was made up of the following wells: MW-4, MW-7, MW-9, MW-B3R, replacement well MW-8R, and new wells MW-10 and MW-11.

In general, monitoring wells are oriented north-south through the TCE excavation Areas. Well MW-9 is located across Leland Ave from the TCE-impacted excavation areas. Wells MW-B3R, MW-8R,

and MW-9 are downgradient from the TCE-impacted soil excavation areas. The remaining wells are within or adjacent to the TCE-impacted soil excavations.

As outlined in the IRM Work Plan, the monitoring program consisted of three events for the first year following excavation. Monitoring events were to be conducted within 30 days of completion of excavation and installation of replacement wells, approximately 3 months following the first monitoring event, and approximately 6 months following the second monitoring event. Monitoring events were roughly conducted in December 2007, April 2008, and October 2008. Table 2 summarizes the wells that were sampled during the monitoring events.

Table 2: Monitoring Events

Monitoring Event	Date	MW-4	MW-7	MW-8R	MW-9	MW-10	MW-11	MW-B3R
First	12/19/07	X	X		X	X	X	X
Second	4/8/08	X	X		X	X	X	X
	8/21/08			X				
Third	10/8/08	X	X	X	X	X	X	X

Well MW-8 was not located during the first monitoring event, presumably due to snow cover. However, during the second monitoring event in April, MW-8 could not be located. Extensive clearing and a visual investigation was conducted on May 5, 2008, at which time MW-8 was presumed destroyed. Replacement well MW-8R was installed on August 1, 2008 adjacent to MW-8 location and a sample was collected from this well on August 21, 2008. MW-8R was subsequently incorporated into the third monitoring event as scheduled.

Ground water samples were collected using dedicated bailers. Prior to collection of the samples, water levels were recorded, three well-volumes of water were removed from the well, ground water parameters were recorded on sampling logs, and ground water was discharged to grade. Ground water sampling logs are presented as Appendix C. Ground water elevations are presented in Table 3. QA/QC (field duplicate, matrix spike, matrix spike duplicate) samples were collected at a frequency of 1 per 20 samples. A trip blank was placed in each cooler when VOC samples were transported to the laboratory.

Collected samples were delivered under chain of custody documentation to Life Science Laboratories Inc (LSL) for VOC analysis in accordance with USEPA Method 8260. LSL provided an analytical report consistent with Category B of the NYSDEC Analytical Services Protocol (ASP). A Data Usability Summary Report (DUSR) consistent with Appendix 2B of the Draft DER-10 Technical Guidance for Site Investigation and Remediation (December 2002) was prepared by Data Validation Services, Inc. The DUSR indicated that results were usable as reported or with minor qualifications. A copy of the DUSR with laboratory data sheets is provided as Appendix D.

3. Geologic and Hydrogeologic Conditions

3.1. Overburden Geology

The overburden materials encountered at the Site consist of two units: fill and fluvial deposits. Surficial fill materials are found across the site. Fill materials consist of sand, silt, gravel and various debris such as brick fragments, cinders, glass, metal, and other material. Fill materials ranged in thickness from 4 ft in the TCE area excavation at MW-10 to 10 ft north of the facility at MW-B3R. Composition of the fluvial deposits varied, ranging from silt and/or clay with little to no gravel to gravel and some sand. The bottom of fluvial deposits was not encountered during implementation of the IRM.

3.2. Hydrogeology

Ground water levels were measured three times, once during each sampling event. Water elevation data collected during implementation of the ground water monitoring program are presented on Table 3. The most complete set of water level data was collected on October 9, 2008, when wells MW-6 and MW-8R were incorporated into the monitoring program.

The ground water table was generally encountered within the fill unit at depths ranging from 0.2 ft in well MW-9 to 5 ft at MW-6. A ground water elevation contour map was developed to from the most complete set of water level data to illustrate the shallow ground water flow characteristics. This contour map is provided as Figure 3 and presents the ground water elevations on October 9, 2008. As illustrated on this figure, the water table is very flat with what appears to be a trend towards the east and the Mohawk River. This is consistent with the ground water contour map presented in the Utica Alloys Remedial Investigation Report (January 2000) and a more recent contour map of a larger area that incorporates a portion of the Utica Alloys site that is presented in the Universal Waste, Inc. Property Preliminary Site Assessment (January 2000).

4. Ground Water Quality

The constituents detected in ground water samples were compared to New York State (NYS) ambient water quality standard and guidance values for Class GA water provided in the TOGS Series 1.1.1. In addition, ground water sample analytical results were compared to historical ground water quality data to evaluate the effect of removal of TCE-impacted soil on ground water quality.

Results of the ground water analyses from the three monitoring events are summarized in Table 4. As discussed, this table includes the Class GA ground water criteria as well as appropriate historical ground water analytical data for comparison. As indicated on this table, 12 VOC constituents were detected in the ground water samples analyzed either during the historical sampling events or post-IRM ground water monitoring program. A number of the detected constituents were only observed during the historical sampling event. Of the constituents detected, five of the 12 constituents exceeded the ground water criteria in at least one sample collected during the post-IRM monitoring event; these concentrations are emphasized on Table 4 in bold. The constituents detected above the criteria are predominantly chlorinated VOCs (CVOCs) with the exception of methyl tert-butyl ether (MTBE). MTBE, a gasoline additive, was found in well MW-9, which is located adjacent to the road and parking lot. Gasoline has not historically been used or stored in large quantities at the subject site. Due to the heavy industrial use and the history of the area and the location of the well near the roadway, MTBE is considered to be related to offsite sources and not considered to be a site-related constituent. VOCs were not detected at MW-B3R or MW-8R, which are located northeast of the TCE-impacted soil removal area.

With respect to the CVOCs, the primary constituents detected in the ground water include TCE and its breakdown products, cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC). A fourth constituent, methylene chloride was detected on one occasion at well MW-B3R. The concentration observed was 8 µg/L. Although this concentration is above the ground water criterion of 5 µg/L, methylene chloride is a commonly identified laboratory artifact and not considered to be a site-related constituent.

Review of total CVOC values in some of the wells suggests general trends. In general, when compared to pre-IRM data, there appears to be a decrease in the concentration of CVOCs observed in ground water at wells MW-4, MW-7, and MW-11. These wells are located within the area where the TCE-impacted soils were removed. Pre-IRM data was not collected from MW-10. Review of the ground water quality data collected from this well during the monitoring program indicates that the CVOC concentrations have increased slightly.

In addition to total CVOC values, the concentration of TCE relative to its breakdown products, cDCE and VC, was also reviewed. Whereas the CVOCs observed at MW-7 appear to be mostly TCE (the source material) the concentrations observed at the other locations include more of the breakdown products. The predominance of the breakdown products at the locations at the edges of the TCE-impacted soil removal area suggests that natural biodegradation processes are occurring at the margins of the ground water plume.

5. Summary and Conclusions

Review of historical and current analytical data indicates that the excavation of TCE-containing soil during the IRM has contributed to the reduction in concentration of TCE in ground water. The ratio of TCE to breakdown products, cDCE and VC, at the edges of the TCE-impacted soil removal area suggests that degradation is occurring in these areas. However, concentrations of CVOCs in ground water in this area are still above ground water criteria.

Table 1
Monitoring Wells Construction
Utica Alloys, Inc.
Utica, NY

Well ID	Northing	Easting	Installation Date	Ground Surface Elevation (feet)	TOC Elevation (feet)	Well Status	Segment Type	Material Type	Total Depth (feet)	Start Screen Depth (feet)	End Screen Depth (feet)	Start Screen Elevation (feet)	Bottom Screen Elevation (feet)	Diameter (inches)	Slot Size (inches)
MW-4	1134363.668	1186047.882	NA	405.18	404.92	Active	Screen	PVC	NA	NA	NA	NA	NA	2.00	NA
MW-6	1134397.689	1186172.431	NA	405.43	405.23	Active	Screen	PVC	NA	NA	NA	NA	NA	2.00	NA
MW-7	1134271.791	1186013.954	NA	405.79	405.59	Active	Screen	PVC	13.0	3.0	13.0	402.4	392.4	2.00	0.01
MW-8R	1134602.49	1186192.281	08/01/08	403.66	406.11	Active	Screen	PVC	13.0	3.0	13.0	400.7	390.7	2.00	0.01
MW-9	1134442.606	1186008.197	NA	403.76	403.5	Active	Screen	PVC	NA	NA	NA	NA	NA	2.00	NA
MW-10	1134193.384	1185942.298	12/03/07	405.14	404.89	Active	Screen	PVC	13.0	3.0	13.0	402.1	392.1	2.00	0.01
MW-11	1134317.444	1186021.032	12/04/07	405.27	404.93	Active	Screen	PVC	13.0	3.0	13.0	402.3	392.3	1.00	0.01
MW-B3R	1134723.056	1186313.61	06/20/00	403.08	405.12	Active	Screen	PVC	12.0	2.0	12.0	401.1	391.1	2.00	0.01

Notes:

Survey conducted on October 31, 2008.

NA - Not available

Monitoring Interval - Represents screened interval

Vertical Datum - NAVD 1988

Horizontal Datum - NAD 83 (feet) State Plane

*- Well construction information assumes based on depth measurements of wells.

Table 3
 Utica Alloys
 Ground Water Elevations
 Utica, NY

Well ID	Date		December 19, 2007		April 4, 2008		October 9, 2008	
	TOC Elevation (ft)		DTW (ft bgs)	Elevation (ft)	DTW (ft bgs)	Elevation (ft)	DTW (ft bgs)	Elevation (ft)
MW-4	404.92		4.00	400.92	2.91	402.01	3.82	401.10
MW-6	405.23		NA*	NA	NA*	NA	5.00	400.23
MW-7	405.59		4.08	401.51	3.15	402.44	4.15	401.44
MW-8R	406.11		NA*	NA	NA*	NA	4.73	401.38
MW-9	403.5		2.70	400.80	0.20	403.30	2.14	401.36
MW-10	404.89		3.49	401.40	2.11	402.78	3.68	401.21
MW-11	404.93		3.51	401.42	2.50	402.43	3.51	401.42
MW-B3R	405.12		3.70	401.42	3.10	402.02	4.64	400.48

Notes:

- Event 1 occurred on December 19, 2007
- Event 2 occurred on April 4, 2008
- Event 3 occurred on October 9, 2008
- * - Well MW-6 and MW-8 were not located for Event 1 and Event 2 water level measurements. Well MW-8 was replaced with well MW-8R and well MW-6 was located prior to Event 3.

Table 4
Utica Alloys, Inc.
Ground Water Sampling Results

Parameter Name	Location ID	Downgradient From Source									Near TCE Source Area			
		MW-B3R	MW-B3R	MW-B3R	MW-B3R	MW-8R	MW-8R	MW-9	MW-9	MW-9	MW-4	MW-4	MW-4	MW-4
		Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
		12/19/2007	4/4/2008	4/4/2008	10/9/2008	8/21/2008	10/9/2008	12/19/2007	4/4/2008	10/9/2008	12/8/1999	12/19/2007	4/4/2008	10/9/2008
		N	N	FD	N	N	N	N	N	N	N	N	N	N
		Action Level ¹												
1,1-Dichloroethylene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	30 J	50 U	50 U	50 U
Acetone	50	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	4.03 J	150 JB	1000 U	1000 UJ	1000 U
Carbon disulfide	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U	50 U	50 U	50 U
cis-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U	50 U	50 U	50 U
Cyclohexane	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4100	2310	2040	1360
Dichloromethane (methylene chloride)	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.12 NJ	0.44 J	0.5 U	NA	50 U
Methyl Tert-Butyl Ether (MTBE)	8	0.5 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	U	200 U	200 U	200 U
Methylcyclohexane	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.39 J	0.5 U	NA	50 U	100 U
Toluene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U	50 U	50 U	50 U
trans-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U	50 U	50 U	50 U
Trichloroethylene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	17 J	50 U	50 U	50 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	8000	953	702	279
Total CVOCs	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	140 J	138 J	463	915
											12287	3401	3205	2554

Parameter Name	Location ID	Near TCE Source Area												
		MW-7	MW-7	MW-7	MW-7	MW-7	MW-10	MW-10	MW-10	MW-10	MW-3	MW-11	MW-11	MW-11
		Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date	Sample Date
		9/30/1999	12/19/2007	4/4/2008	10/9/2008	10/9/2008	12/19/2007	12/19/2007	4/4/2008	10/9/2008	12/8/1999	12/19/2007	4/4/2008	10/9/2008
		N	N	N	N	FD	FD	N	N	N	N	N	N	N
		Action Level ¹												
1,1-Dichloroethylene	5	U	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	U	10 U	10 U	5 U
Acetone	50	210 JB	500 U	500 UJ	1000 U	1000 U	50 U	20 U	20 UJ	50 U	690 JB	200 U	200 UJ	100 U
Carbon disulfide	60	15 J	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	U	10 U	10 U	5 U
cis-1,2-Dichloroethene	5	460	95	609	289	273	40.5	37.4	42.7	353 J	8500	479	27.2	192
Cyclohexane	NC	NA	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	NA	10 U	10 U	5 U
Dichloromethane (methylene chloride)	5	36 J	100 U	8 J	17 U	17 U	10 U	4 U	4 U	10 U	94 J	40 U	40 U	20 U
Methyl Tert-Butyl Ether (MTBE)	8	NA	25 U	50 U	100 U	100 U	2.5 U	1 U	2 U	5 U	NA	10 U	20 U	10 U
Methylcyclohexane	NC	NA	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	NA	10 U	10 U	5 U
Toluene	5	5 J	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	U	10 U	10 U	5 U
trans-1,2-Dichloroethene	5	U	25 U	25 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	U	10 U	10 U	5 U
Trichloroethylene	5	6700	1480	3130 J	2680	2590	3.5	2.1	0.66 J	2.5 U	27000	282	220	200
Vinyl chloride	2	U	50 U	50 U	100 U	100 U	37.4	39.1	24.5	101 J	390 J	188	20 U	28.5
Total CVOCs	NC	7196	1575	3747	2969	2863	81.4	78.6	67.86	455.9	35984	949	247.2	420.5

Notes:

Units are in ug/L (micrograms per liter)

NJ- tentative in identification and estimated in value.

U - Compound analyzed but not detected above the method detection limit.

J - Estimate value

B - Analyte detected in the associated method blank

NA - Not Applicable

¹ 1999 data results from Stearns & Wheeler Remedial Investigation (1999) for purposes of comparing to current data.

¹ Class GA Groundwater Criteria as identified in New York State Ambient Water Quality Standards and Guidance Values, Table 1, Division of Water Technical and Operational Guidance Series 1.1.1 (June 1998)

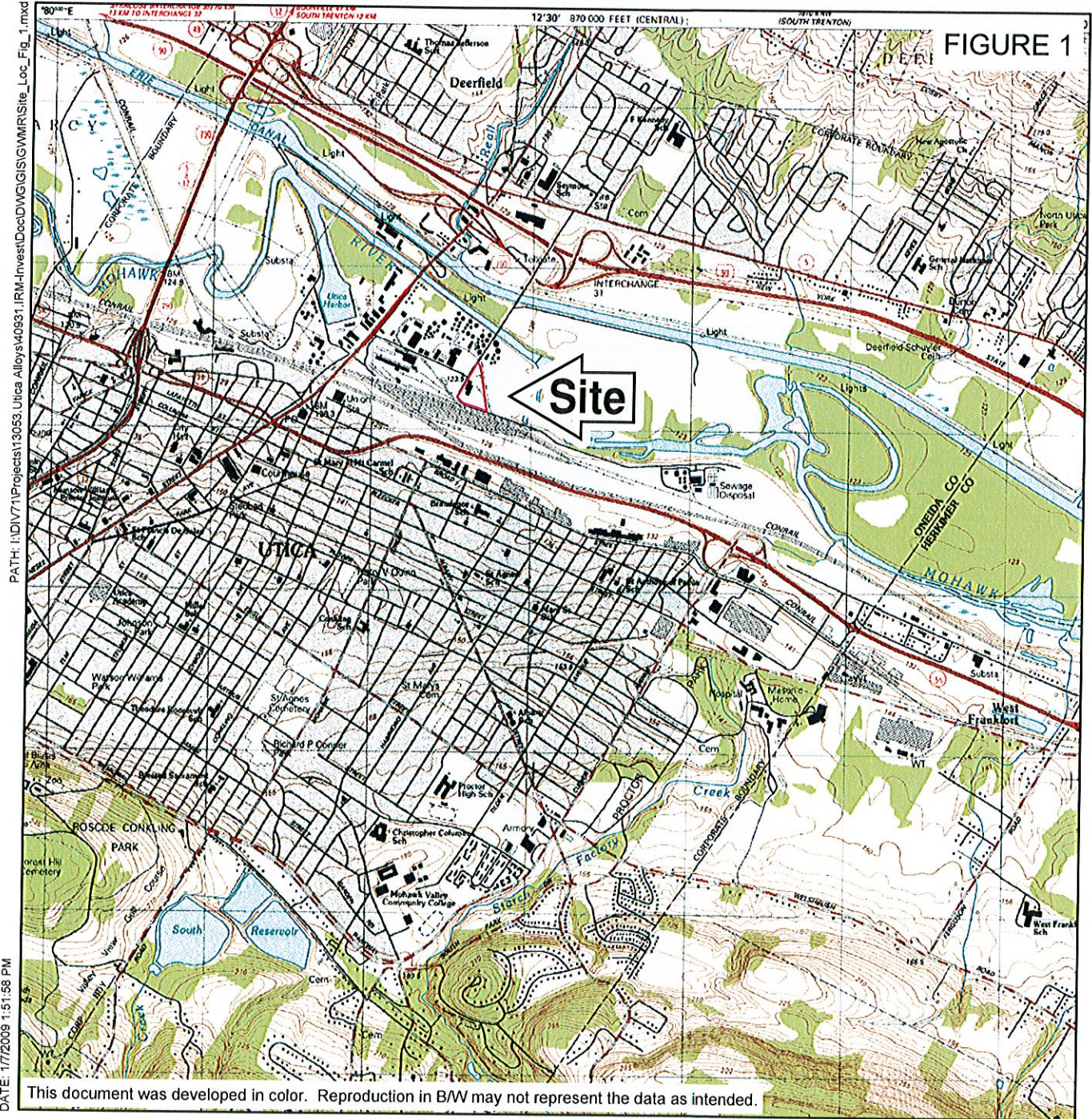
Concentration is greater than the action level.

Sample Type N - Normal

Sample Type FD - Field Duplicate

Total CVOCs = 1,1-Dichloroethylene, cis-1,2-Dichloroethene, Dichloromethane (methylene chloride), trans-1,2-Dichloroethene, Trichloroethylene, and Vinyl chloride.

FIGURE 1

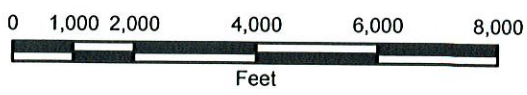


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UTICA ALLOYS
UTICA, NEW YORK

SITE LOCATION



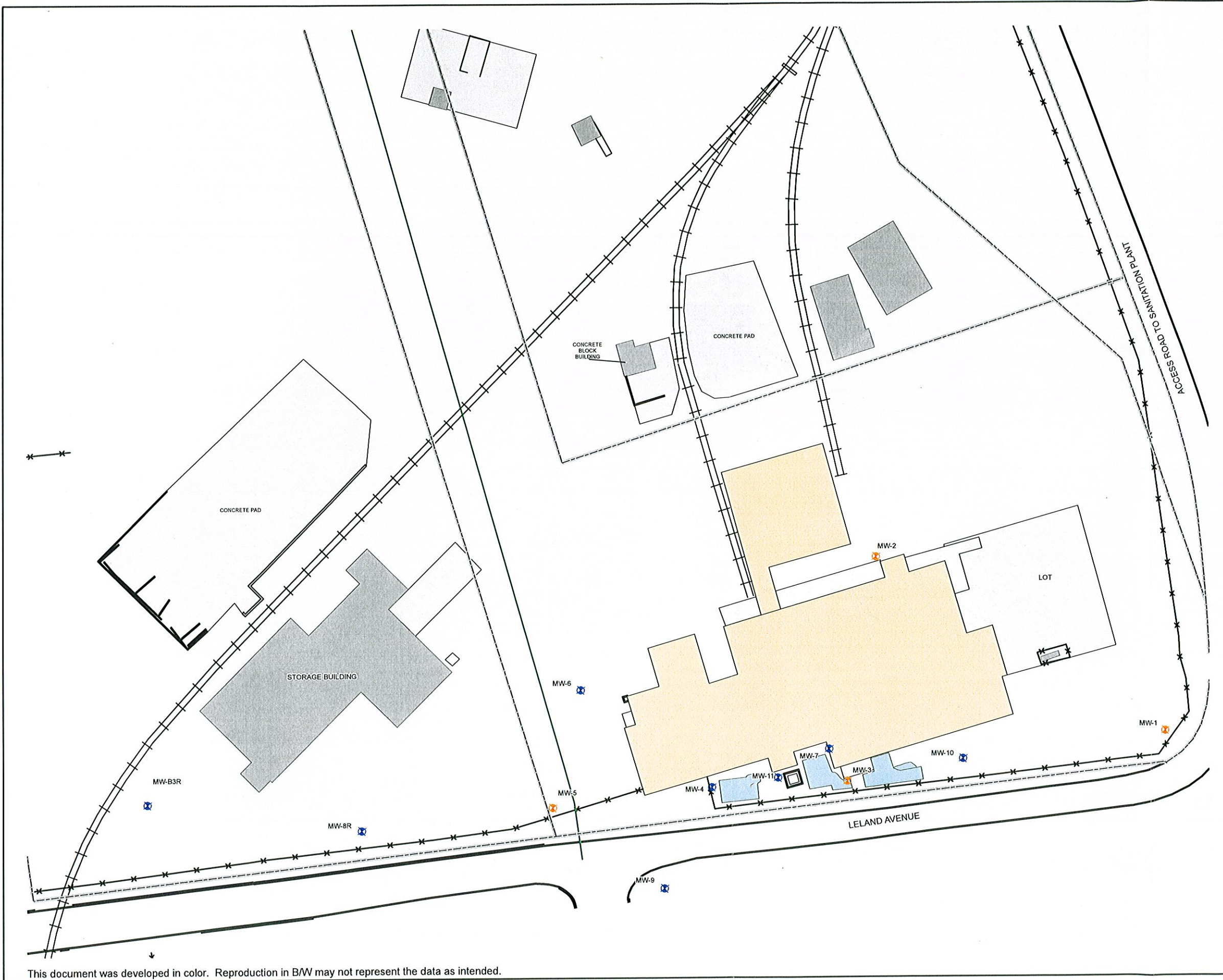


FIGURE 2



LEGEND

Sample Locations

- MONITORING WELL
- TEMPORARY WELL
- DESTROYED WELL

BUILDINGS

- UTICA ALLOYS
- OTHER STRUCTURES

SOIL REMOVAL

- SOIL REMOVED TO 6 FT

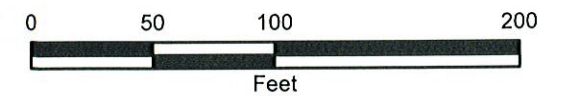
BASEMAP

- PROPERTY LINE
- SEWERLINE - APPROXIMATE
- WALL
- ROAD
- CONCRETE

Note:
 MW-11 = Well
 (401.42) Ground Water Elevation

UTICA ALLOYS
 INTERIM REMEDIAL MEASURES
 UTICA, NEW YORK

SITE PLAN



JANUARY 2009
 13053.40931

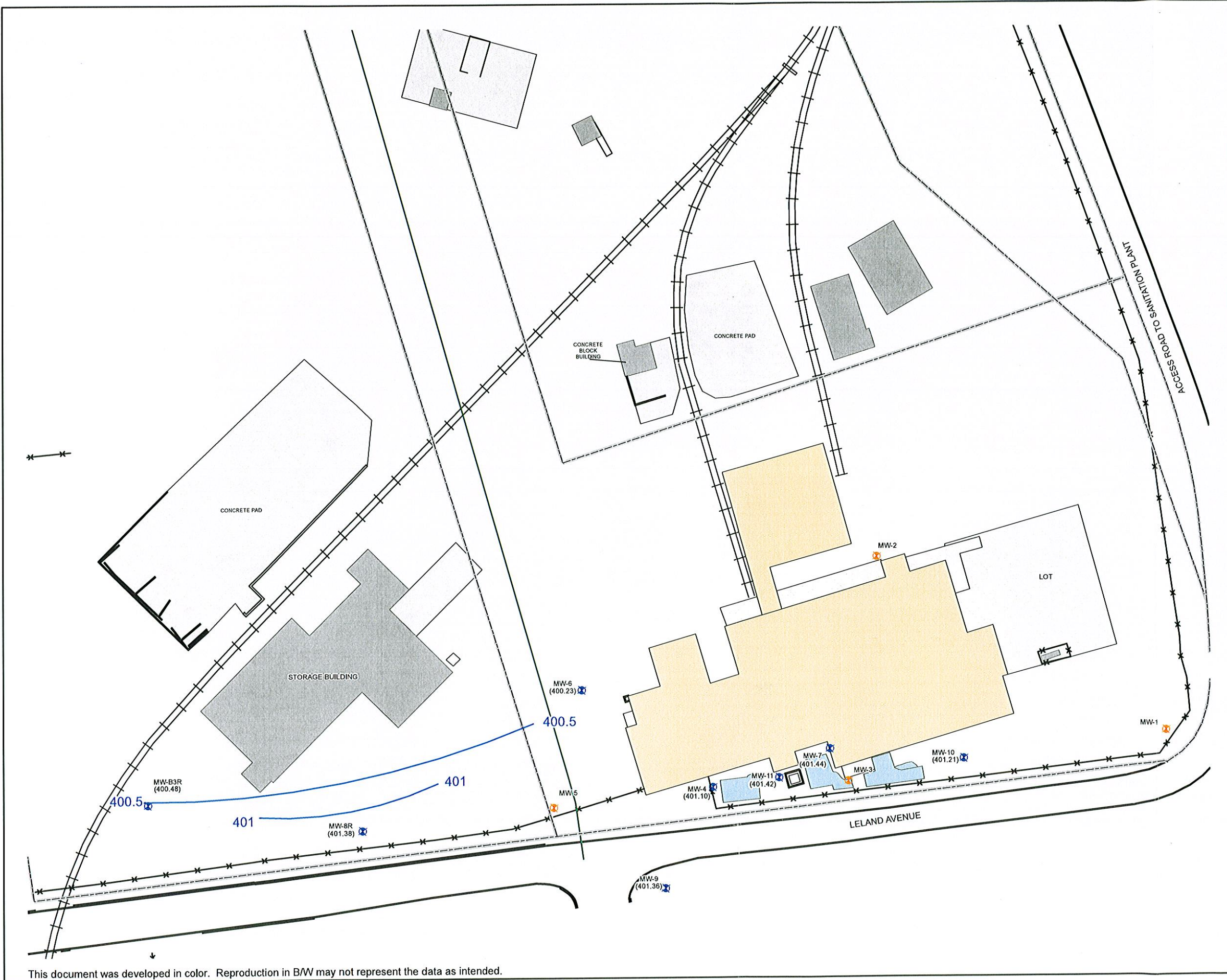


FIGURE 3

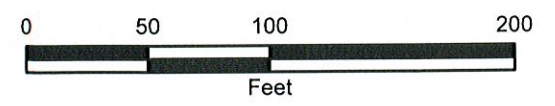


LEGEND

- Sample Locations**
- MONITORING WELL
 - TEMPORARY WELL
 - DESTROYED WELL
- BUILDINGS**
- UTICA ALLOYS
 - OTHER STRUCTURES
- SOIL REMOVAL**
- SOIL REMOVED TO 6 FT
- BASEMAP**
- PROPERTY LINE
 - SEWERLINE - APPROXIMATE
 - GW CONTOUR
 - WALL
 - ROAD
 - CONCRETE
- Note:
 MW-11 = Well
 (401.42) Ground Water Elevation

UTICA ALLOYS
INTERIM REMEDIAL MEASURES
UTICA, NEW YORK

GROUND WATER
CONTOURS
(OCTOBER 9, 2008)



JANUARY 2009
13053.40931

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Appendix A



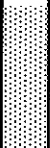
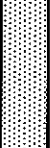
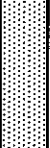
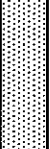
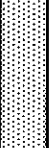

Boring Logs

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING MW-8R
---	------------------------	-----------------------------------

Client: Utica Alloys Proj. Loc: Wurz Ave & Leland Ave Utica, NY File No.: 40931/13053 Boring Company: Parratt-Wolff Drill Rig: Direct Push Geologist: Paul Freyer		Page 1 of 1 Location: North of sewerline Start Date: 8/1/2008 End Date: 8/1/2008 Screen = <input type="checkbox"/> Grout <input checked="" type="checkbox"/> Riser <input type="checkbox"/> Sand Pack <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/>
---	--	---

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing	
									PID (ppm)	Time
0	1	2	NA	2.0/1.9	-	Dusky Yellowish Brown (10YR 2/2) dry to Moist, loose, FM GRAVEL, some FM sand and silt, industrial debris common.			0.5	926
2	2	4	NA	2.0/1.5	-	Dark Yellowish Brown (10YR 4/2), moist, medium dense, F GRAVEL and FM SAND, trace silt, brick, and ash, one 1" layer of White (N9) FM sand.			0.5	928
4	3	6	NA	2.0/1.45	-	Dark Yellowish Brown (10YR 4/2), saturated, medium dense, FM SAND and SILT, little F gravel, one 3" layer Black (N1).			0.4	933
6	4	8	NA	2.0/0.45	-	Dark Yellowish Brown (10YR 4/2), saturated, FMC SAND and SILT, FM gravel, sluff?			0.5	937
8	5	10	NA	2.0/2.0	-	0.15' Same as above 1.85' Dark Olive Gray (5Y 3/1), moist, stiff, SILT and CLAY, faint Moderate Brown (5YR 4/4) mottling common.			0.1	944
10	6	12	NA	2.0/0.2	-	0.2' Same as above - Poor Recovery			0	948
12	7	14	NA	2.0/1.7	-	0.3' - Same as above 0.3' Dusky Yellowish Brown (10YR 2/2), saturated, loose, FM SAND and SILT, trace F gravel. 1.1' Dusky Yellowish Brown (10YR2/2) to Dark Olive Gray (5Y3/1) moist, stiff, SILT and CLAY, trace plant fragments. Faint Moderate Brown (5YR 4/4) mottling common.			0.1	954
						End of Boring @ 14 ft bgs				

Notes: - 2" PVC Well Material - Bottom plug in screen
 - Screen: 3 - 13 ft bgs of 0.010" slot
 - Stick up riser with protective casing

O'BRIEN & GERE ENGINEERS, INC.						TEST BORING LOG	REPORT OF BORING MW-10				
Client: Utica Alloys Proj. Loc: Wurz Ave & Leland Ave Utica, NY						Sampler: 2" Split Spoon Hammer: 140 lb Hammer		Page 1 of 1 Location: Southwest corner of building Start Date: 12/3/2007 End Date: 12/3/2007			
File No.: 40931/13053						Fall: 30 Inches		Screen Riser:  Grout Sand Pack Bentonite			
Boring Company: Parratt-Wolff Drill Rig: Hollow Stem Auger						Geologist: Yuri Veliz					
Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm) Time		
0	1	2	35-47 35-16	2.0/1.0	82	Moderate Brown, damp, soft, F SAND and SILT, little gravel, some metal pieces.	FILL		0.9	910	
2	2	4	25-22 27-10	2.0/0.0	49	No Recovery			--	--	
4	3	6	11-6 3-3	2.0/0.5	9	Moderate Brown, moist to wet, soft, SILT, some clay, trace gravel.	6'		0.1	937	
6	4	8	2-2 3-4	2.0/0.5	5	Same as above, wet			0.2	940	
8	5	10	2-2 2-2	2.0/1.8	4	Grayish brown, wet, soft, SILT, some clay, little fine sand.			0.5	945	
10	6	12	1-2 2-1	2.0/1.8	4	Same as above	SILT & CLAY		0.6	957	
12	7	14	1-1 1-2	2.0/1.8	2	Same as above			10	1000	
						End of Boring @ 14 ft bgs					
Notes: - 2" PVC Well Material - Screen: 3 - 13 ft bgs of 0.010" slot - Sand: 13 - 2 ft bgs						- Seal: 2 - 1 ft bgs - Cover: 1 - 0 ft bgs					

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING MW-11
---	------------------------	-----------------------------------

Client: Utica Alloys Proj. Loc: Wurz Ave & Leland Ave Utica, NY File No.: 40931/13053		Page: 1 of 1 Location: West side of building Start Date: 12/4/2007 End Date: 12/4/2007
---	--	---

Boring Company: Parratt-Wolff Drill Rig: Direct Push Geologist: Scott Tucker	Screen Riser <input type="checkbox"/> = <input type="checkbox"/> <input type="checkbox"/> \ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Grout Sand Pack Bentonite
---	--

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed		Field Testing	
										PID (ppm)	Time
0	1	4	NA	4.0/2.5	NA	2.0' - Grayish Brown (5YR3/2), moist, SAND and GRAVEL, trace coal fragments, no odor, FILL.		\		2.4	
						0.5' - FILL and SAND, orange brick fragments, moist, no odor.	FILL	=		1.8	
4	2	8	NA	4.0/3.5	NA	3.0' - Same as above, wet, no odor.		=		5.8	
						1.0' - Dark Gray (N3), CLAY, trace silt, moist, pliable, organics (plant fragments), no odor.	6.5'	=		10	
8	3	12	NA	4.0/2.0	NA	Same as above, Moderate Yellowish Brown (10YR5/4), CLAY, moist, very pliable, no odor.	CLAY	=		15.5	
12	4	13	NA	2.0/1.8	NA	1.0' - Same as above		=		74.9	
						End of Boring @ 13 ft bgs					

Notes: - 1" PVC Well Material - Screen: 3 - 13 ft bgs of 0.010" slot - Sand: 13 - 2 ft bgs	- Seal: 2 - 1 ft bgs - flushmount cover - poor sand pack, set in direct push spoon hole.	- Bottom plug in screen
---	--	-------------------------

Appendix B

Well Development Logs

WELL DEVELOPMENT LOG

 Well ID: MW 10

Date	<u>12/19/2007</u>	Field Personnel	<u>Y. Veliz / P. Freyer</u>	Weather	<u>Overcast 32°F</u>
Site Name	<u>Utica Alloys</u>	Contractor	<u>None</u>	Project No.	<u>40931.001.171</u>
Site Location	<u>Utica, NY</u>	Evacuation Method	<u>Bailer</u>		

Well information:

Depth to Bottom (Initial)*	<u>12.80</u> ft.	Date(s) Installed	<u>Permit - Work</u>	Date(s) Developed	<u>Start: 1300</u>
Depth to Bottom (Final)*	<u>3.49</u> ft.	Driller	<u>Permit - Work</u>	Development Time	<u>Stop:</u>
Depth to Water (Initial)*	<u>3.49</u> ft.	Well Diameter	<u>2"</u>	Total:	
Depth to Water (Final)*	<u>7.31</u> ft.	Casing Volume	<u>1.52</u> gal.		

* Measuring point 7.31 TOC Pump setting* _____ Water Column Length 9.3ft
 (intake)

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Depth to Water (ft.)	Appearance of Water
Start	0	8.2	6.63	0.824	71000	N/A	3.49	Brown Water
1	1.5							
2	3.0	10.2°	6.60	0.834	71000		3.95	Brown
3	4.5	11.3°	6.63	0.872	71000		4.25	Brown
4	6.0	11.7°	6.67	0.878	71000		4.15	Brown
5	7.5	11.6°	6.71	0.970	71000		4.21	Brown
Start	0							
1								
2								
3								
4								
5								
Start	0							
1								
2								
3								
4								
5								

Development Water Characteristics:

 Total volume of Development water removed: 7.5

Physical appearance at start

 Color Brown

 Odor None

 Sheen/Free Product None

Physical appearance at end

 Color Brown

 Odor None

 Sheen/Free Product None

NOTES: _____

Geologist Signature: _____

WELL DEVELOPMENT LOG

 Well ID: MW-11

Date	<u>12/19/2007</u>	Field Personnel	<u>Y. Velliz / P. Freyer</u>	Weather	<u>overcast 30°F</u>
Site Name	<u>Utica Alloys</u>	Contractor	<u>None</u>	Project No.	<u>40931.001.171</u>
Site Location	<u>Utica, NY</u>	Evacuation Method	<u>Bailer</u>		

Well information:

Depth to Bottom (Initial)*	<u>12.46</u> ft.	Date(s) Installed	<u></u>	Date(s) Developed	<u></u>
Depth to Bottom (Final)*	<u></u> ft.	Driller	<u>PW</u>	Development Time	<u>Start: 1050</u>
Depth to Water (Initial)*	<u>3.51</u> ft.	Well Diameter	<u>1"</u>	Stop:	<u></u>
Depth to Water (Final)*	<u>3.95</u> ft.	Casing Volume	<u>0.37</u> gal.	Total:	<u></u>

* Measuring point Pump setting* Water Column Length ft
 (intake)

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Depth to Water (ft.)	Appearance of Water
Start	0	9.8°	7.11	0.524	71000	NA	3.51	Brown
1	0.4	9.8°	6.44	0.526	71000		3.92	Brown
2	0.8	10.0°	6.95	0.524	71000		4.5	Brown
3	1.2	9.9°	6.98	0.515	71000		4.2	Brown
4	1.6	10.4°	6.96	0.509	71000	↓	4.2	Brown
5								
Start	0							
1								
2								
3								
4								
5								
Start	0							
1								
2								
3								
4								
5								

Development Water Characteristics:

 Total volume of Development water removed: 1.66 gal

Physical appearance at start

 Color Brown
 Odor None

 Sheen/Free Product Slight Sheen

Physical appearance at end

 Color Brown
 Odor None

 Sheen/Free Product Slight Sheen

 NOTES:

Geologist Signature: _____

Appendix C

Well Sampling Logs

O'Brien & Gere Engineers, Inc. **Standard Ground Water Sampling Log**

Date 12/19/2007
 Site Name Ulica Alloys Weather overcast
 Location Ulca, NY Well # MJ-4
 Project No. 40931.001.171 Evacuation Method Bailer
 Personnel Y. Velz / P. Freyer Sampling Method Bailer

Well Information:
 Depth of Well * 13.88 ft.
 Depth to Water * 4.00 ft.
 Length of Water Column 9.88 ft.
 Volume of Water in Well 1.41 gal.(s)
 3X Volume of Water in Well 4.83 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings	Conductivity Standard Readings
4.0 Standard _____	84 S Standard _____
7.0 Standard _____	1413 S Standard _____
10.0 Standard _____	

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>0</u>	initial <u>11.7</u>	initial <u>7.11</u>	initial <u>0.618</u>
<u>1.5</u>	<u>10.8</u>	<u>6.74</u>	<u>0.671</u>
<u>3.5</u>	<u>11.5</u>	<u>6.71</u>	<u>0.682</u>
<u>5</u>	<u>11.5</u>	<u>6.69</u>	<u>0.687</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:
 Time Collected 1200

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>Clear color</u>	Color <u>Brown</u>
Odor <u>None</u>	Odor <u>None</u>
Turbidity (> 100 NTU) <u>144</u>	Turbidity (> 100 NTU) <u>5100</u>
Sheen/Free Product <u>-</u>	Sheen/Free Product <u>None</u>

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes: MS/MSD

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 12/19/2007
 Site Name Ulica Alloys
 Location Ulica, NY
 Project No. 40931.001.171
 Personnel Y. Veltz / P. Freyer

Weather overcast
 Well # HW-7
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 13.80 ft.
 Depth to Water * 4.08 ft.
 Length of Water Column 9.72 ft.
 Volume of Water in Well 1.58 gal.(s)
 3X Volume of Water in Well 4.75 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

	Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial	<u>0</u>	initial <u>11.4</u>	initial <u>7.01</u>	initial <u>0.92</u>
	<u>1.6</u>	<u>10.4</u>	<u>7.06</u>	<u>0.816</u>
	<u>3.2</u>	<u>10.7</u>	<u>7.00</u>	<u>0.540</u>
	<u>4.8</u>	<u>10.3</u>	<u>7.02</u>	<u>0.939</u>
	_____	_____	_____	_____
	_____	_____	_____	_____

Water Sample:

Time Collected 1410

Physical Appearance at Start

Color Clear
 Odor None
 Turbidity (> 100 NTU) 199
 Sheen/Free Product None

Physical Appearance at Sampling

Color Clearish - Brown
 Odor None
 Turbidity (> 100 NTU) 520
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes: pad subsidence (should be repaired may damage well casing)

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 12/19/2007
 Site Name Ulita Alloys
 Location Ulita, NY
 Project No. 40931.001.171
 Personnel Y. Voliz / P. Freyer

Weather overcast
 Well # NW-79
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 12.63 ft.
 Depth to Water * 2.70 ft.
 Length of Water Column 9.93 ft.
 Volume of Water in Well 1.62 gal.(s)
 3X Volume of Water in Well 4.86 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>0</u>	initial <u>6.8</u>	initial <u>6.87</u>	initial <u>1.81</u>
<u>1.6</u>	<u>8.0</u>	<u>6.83</u>	<u>1.77</u>
<u>3.2</u>	<u>9.3</u>	<u>6.74</u>	<u>1.62</u>
<u>4.8</u>	<u>11.0</u>	<u>6.77</u>	<u>1.60</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:

Time Collected 1445

Physical Appearance at Start

Color Clear
 Odor slight sulfur
 Turbidity (> 100 NTU) 120
 Sheen/Free Product none

Physical Appearance at Sampling

Color 4 B. - 2m
 Odor slight sulfur
 Turbidity (> 100 NTU) 21000
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes: _____

O'Brien & Gere Engineers, Inc. **Standard Ground Water Sampling Log**

Date 12/19/2007
 Site Name Ulica Alloys Weather clear with 30°F
 Location Ulica, NY Well # MW-10
 Project No. 40931.001.171 Evacuation Method Bailer
 Personnel Y. Veliz / P. Freyer Sampling Method Bailer

Well Information:
 Depth of Well * 12.87 ft.
 Depth to Water * 3.49 ft.
 Length of Water Column 9.38 ft.
 Volume of Water in Well 1.51 gal.(s)
 3X Volume of Water in Well 4.55 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

pH Buffer Readings	Conductivity Standard Readings
4.0 Standard _____	84 S Standard _____
7.0 Standard _____	1413 S Standard _____
10.0 Standard _____	

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>0</u>	initial <u>11.6</u>	initial <u>6.71</u>	initial <u>0.870</u>
<u>1.5</u>	<u>11.3</u>	<u>6.78</u>	<u>0.875</u>
<u>3.0</u>	<u>11.6</u>	<u>6.74</u>	<u>0.878</u>
<u>4.5</u>	<u>11.9</u>	<u>6.74</u>	<u>0.879</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:
 Time Collected 1330

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>Brown</u>	Color <u>Brown</u>
Odor <u>None</u>	Odor <u>None</u>
Turbidity (> 100 NTU) <u>> 1000</u>	Turbidity (> 100 NTU) <u>71000</u>
Sheen/Free Product <u>None</u>	Sheen/Free Product <u>None</u>

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes: Field Duplicate

O'Brien & Gere Engineers, Inc. Standard Ground Water Sampling Log

Date 12/19/2007
 Site Name Ulita Alloys Weather overcast
 Location Ulita, NY Well # MW-11
 Project No. 40931.001.171 Evacuation Method Baller
 Personnel Y. Veliz / P. Freyer Sampling Method Baller

Well Information:
 Depth of Well * 12.46 ft.
 Depth to Water * 3.91 ft.
 Length of Water Column 8.95 ft.
 Volume of Water in Well 6.37 gal.(s)
 3X Volume of Water in Well 1.12 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	_____	84 S Standard	_____
7.0 Standard	_____	1413 S Standard	_____
10.0 Standard	_____		

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm.
initial <u>0</u>	initial <u>10.4</u>	initial <u>0.696</u>	initial <u>0.509</u>
<u>0.4</u>	<u>10.3</u>	<u>0.695</u>	<u>0.505</u>
<u>0.8</u>	<u>9.7</u>	<u>0.696</u>	<u>0.506</u>
<u>1.2</u>			

Water Sample:
 Time Collected 11:09

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>Brown</u>	Color <u>Brown</u>
Odor <u>—</u>	Odor <u>—</u>
Turbidity (> 100 NTU) <u>>1000</u>	Turbidity (> 100 NTU) <u>>1000</u>
Sheen/Free Product <u>Slight Sheen</u>	Sheen/Free Product <u>Slight Sheen</u>

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 12/19/2007
 Site Name Ulica Alloys
 Location Ulica, NY
 Project No. 40931.001.171
 Personnel Y. Veliz / P. Freyer

Weather Overcast 28°F
 Well # MW-B3R
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 15.4 ft.
 Depth to Water * 3.7 ft.
 Length of Water Column 11.7 ft.
 Volume of Water in Well 1.91 gal.(s)
 3X Volume of Water In Well _____ gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____ (Other, Specify)

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>0</u>	initial <u>7.4</u>	initial <u>6.94</u>	initial <u>0.453</u>
<u>2</u>	<u>7.6</u>	<u>6.75</u>	<u>0.472</u>
<u>4</u>	<u>7.8</u>	<u>6.74</u>	<u>0.471</u>
<u>6</u>	<u>7.9</u>	<u>6.72</u>	<u>0.471</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:

Time Collected 1330

Physical Appearance at Start

Color Clear (Some Rust)
 Odor None
 Turbidity (> 100 NTU) 2.27
 Sheen/Free Product None

Physical Appearance at Sampling

Color Clear Some Oxides
 Odor None
 Turbidity (> 100 NTU) 2.00
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes:

6

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/10/2007 4-4-08
 Site Name Utica Alloys
 Location Utica, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather overcast, 45°F
 Well # MW-4
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 13.72 ft.
 Depth to Water * 2.91 ft.
 Length of Water Column 10.81 ft.
 Volume of Water in Well 1.76 gal.(s)
 3X Volume of Water in Well 5.29 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling 6 gal.(s)
 Did well go dry? No
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed		Temperature Readings		pH Readings		Conductivity Readings - uS/cm	
initial	<u>0</u>	initial	<u>6.4</u>	initial	<u>6.06</u>	initial	<u>202</u>
	<u>2</u>		<u>7.4</u>		<u>5.76</u>		<u>21000</u>
	<u>4</u>		<u>7.3</u>		<u>5.71</u>		<u>448</u>
	<u>6</u>		<u>7.3</u>		<u>5.73</u>		<u>619</u>
	_____		_____		_____		_____
	_____		_____		_____		_____

Water Sample:

Time Collected 1155

Physical Appearance at Start

Color lt brown
 Odor None
 Turbidity (> 100 NTU) 202
 Sheen/Free Product None

Physical Appearance at Sampling

Color Gray brown
 Odor None
 Turbidity (> 100 NTU) 619
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	NA

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4240/2007 4-4-08
 Site Name Ulica Alloys
 Location Ulica, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather overcast 45°F
 Well # MW-7
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 13.62 ft.
 Depth to Water * 3.15 ft.
 Length of Water Column 10.47 ft.
 Volume of Water in Well 1.71 gal.(s)
 3X Volume of Water in Well 5.13 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling 6 gal.(s)
 Did well go dry? N
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	_____	84 S Standard	_____
7.0 Standard	_____	1413 S Standard	_____
10.0 Standard	_____		

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm	Turb (NTU)
initial <u>0</u>	initial <u>7.7</u>	initial <u>6.63</u>	initial <u>0.730</u>	<u>70</u>
<u>2</u>	<u>8.7</u>	<u>6.60</u>	<u>0.623</u>	<u>190</u>
<u>4</u>	<u>9.8</u>	<u>6.63</u>	<u>0.720</u>	<u>150</u>
<u>6</u>	<u>8.8</u>	<u>6.79</u>	<u>0.541</u>	<u>300</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1305

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>clear</u>	Color <u>lt brown</u>
Odor <u>None</u>	Odor <u>None</u>
Turbidity (> 100 NTU) <u>70</u>	Turbidity (> 100 NTU) <u>300</u>
Sheen/Free Product <u>-</u>	Sheen/Free Product <u>-</u>

Samples collected: MW-7-040408

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
<u>40 ml</u>	<u>Clear Glass (VOA)</u>	<u>3</u>	<u>No</u>	<u>1:1 HCl</u>	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4-4-08
 Site Name Utica Alloys
 Location Utica, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather overcast Raining 42°F
 Well # MW-9
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 0.2 ft.
 Depth to Water * 12.41 ft.
 Length of Water Column 12.21 ft.
 Volume of Water in Well 1.99 gal.(s)
 3X Volume of Water in Well 5.97 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? NO

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

NA pH Buffer Readings: 4.0 Standard _____, 7.0 Standard _____, 10.0 Standard _____
 Conductivity Standard Readings: 84 S Standard _____, 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings °C	pH Readings	Conductivity Readings $\mu S/cm$
initial 0	initial 5.7	initial 5.48	initial 1.50
2	5.5	5.70	1.61
4	5.4	5.73	1.87
6	5.1	5.78	1.91

Water Sample:

Time Collected 1050

Physical Appearance at Start: Color clear, Odor None, Turbidity (> 100 NTU) 7.21, Sheen/Free Product None
 Physical Appearance at Sampling: Color None, Odor None, Turbidity (> 100 NTU) None, Sheen/Free Product None

Samples collected: MW-9_040408, MS_040408, MSD_040408

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	NA
40 ml	"	"	"	"	NA
40 ml	"	"	"	"	NA

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 12/18/2007 4-4-08
 Site Name Ulrica Alloys
 Location Ulrica, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather Overcast
 Well # MW-10
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 12.23 ft.
 Depth to Water * 2.11 ft.
 Length of Water Column 10.12 + 6.5 ft.
 Volume of Water in Well 1.65 gal.(s)
 3X Volume of Water in Well 4.95 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling 6 gal.(s)
 Did well go dry? N

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm	Turbidity
initial 0	initial 6.5	initial 6.10	initial 0.806	427
2	7.3	5.91	0.819	962
4	7.5	5.83	0.816	900
6	7.6	5.93	0.813	900
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1230

Physical Appearance at Start

Color lt brown
 Odor -
 Turbidity (> 100 NTU) 427
 Sheen/Free Product -

Physical Appearance at Sampling

Color Gray brown
 Odor -
 Turbidity (> 100 NTU) 900
 Sheen/Free Product -

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4-4-08
 Site Name Utica Alloys
 Location Utica, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather Overcast Raining 45°F
 Well # MW-11
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 11.96 ft.
 Depth to Water * 2.50 ft.
 Length of Water Column 9.46 ft.
 Volume of Water in Well 0.388 gal.(s)
 3X Volume of Water in Well 1.164 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____
 (Other, Specify) _____

* Measurements taken from Well Casing Protective Casing _____

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>5.3</u>	initial <u>6.99</u>	initial <u>0.699</u>	initial <u>800</u>
<u>5.4</u>	<u>7.00</u>	<u>0.693</u>	<u>71000</u>
<u>6.3</u>	<u>6.90</u>	<u>0.709</u>	<u>71000</u>
<u>6.2</u>	<u>6.92</u>	<u>0.687</u>	<u>71000</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:

Time Collected 1410

Physical Appearance at Start

Color lt brown
 Odor None
 Turbidity (> 100 NTU) 800
 Sheen/Free Product None

Physical Appearance at Sampling

Color Brown opaque
 Odor None
 Turbidity (> 100 NTU) 71000
 Sheen/Free Product None

Samples collected: MW-11 - 040408

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 12/19/2007 4-4-08
 Site Name Ulita Alloys
 Location Ulita, NY
 Project No. 40931.001.171
 Personnel P. Freyer

Weather MW-B3R Overcast, Raining 45°
 Well # MW-B3R
 Evacuation Method Bailer
 Sampling Method Bailer

Well Information:

Depth of Well * 15.16 ft.
 Depth to Water * 3.10 ft.
 Length of Water Column 12.06 ft.
 Volume of Water in Well 1.97 gal.(s)
 3X Volume of Water in Well 5.91 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC

Volume removed before sampling 6 gal.(s)
 Did well go dry? N

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm	Turbidity (NTU)
initial 0	initial 5C	initial 6.71	initial 0.389	45
2	4.1	6.52	0.442	55
4	4.1	6.39	0.459	50
6	3.9	6.33	0.467	55
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1500

Physical Appearance at Start

Color Clear
 Odor Slight Chemical odor
 Turbidity (> 100 NTU) 45
 Sheen/Free Product None

Physical Appearance at Sampling

Color Clear
 Odor Slight chemical
 Turbidity (> 100 NTU) 55
 Sheen/Free Product None

Samples collected: MW-B3R 040408
FD - 040408

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass (VOA)	3	No	1:1 HCl	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 08/21/2008
 Site Name Utica Alloys
 Location Utica, NY
 Project No. 13053.Utica Alloys
 Personnel CYV

Weather Sunny 70°F
 Well # MW-8R
 Evacuation Method Polyethylene Bailer
 Sampling Method Polyethylene Bailer

Well Information:

Depth of Well * 15.66 ft.
 Depth to Water * 5.59 ft.
 Length of Water Column 10.07 ft.
 Volume of Water in Well 1.64 gal.(s)
~~SX~~ Volume of Water in Well 8.21 gal.(s)

Water Volume /ft. for:
 x 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 9 gal.(s)
 Did well go dry? NO

* Measurements taken from, Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial <u>0</u>	initial <u>21.5°C</u>	initial <u>6.54</u>	initial <u>6.91</u>
<u>1.64</u>	<u>20.9</u>	<u>6.57</u>	<u>0.91</u>
<u>3.28</u>	<u>20.4</u>	<u>6.64</u>	<u>0.87</u>
<u>4.92</u>	<u>20.9</u>	<u>6.65</u>	<u>0.87</u>
<u>6.46</u>	<u>20.5</u>	<u>6.67</u>	<u>0.83</u>
<u>8.20</u>	<u>20.3</u>	<u>6.67</u>	<u>0.84</u>

Water Sample:

Time Collected 1305

Physical Appearance at Start

Color Clear
 Odor NO
 Turbidity (> 100 NTU) 2.00
 Sheen/Free Product NO

Physical Appearance at Sampling

Color Gray
 Odor NO
 Turbidity (> 100 NTU) 2.00
 Sheen/Free Product NO

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH
40-ml VOA	VOA Vial				1:1 HCL	<2

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Mostly Sunny
 Well # MW-4
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 14.63 ft.
 Depth to Water * 3.82 ft.
 Length of Water Column 10.83 ft.
 Volume of Water in Well 1.77 gal.(s)
 3X Volume of Water in Well 5.31 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling? _____ gal.(s) Did well go dry? _____
 * Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings	Conductivity Standard Readings
4.0 Standard _____	84 S Standard _____
7.0 Standard _____	1413 S Standard _____
10.0 Standard _____	

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm mS/cm	Turbidity Readings Ntu
initial <u>0</u>	initial <u>16.1</u>	initial <u>6.26</u>	initial <u>1.05</u>	initial <u>110</u>
<u>2</u>	<u>17.9</u>	<u>6.97</u>	<u>1.09</u>	<u>250</u>
<u>4</u>	<u>18.4</u>	<u>6.32</u>	<u>0.966</u>	<u>340</u>
<u>6</u>	<u>17.9</u>	<u>5.96</u>	<u>1.10</u>	<u>400</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1230

Physical Appearance at Start

Color Clear
 Odor None
 Turbidity (> 100 NTU) 110
 Sheen/Free Product None

Physical Appearance at Sampling

Color Cloudy
 Odor None
 Turbidity (> 100 NTU) 400
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Partly cloudy @ 50F
 Well # MW-7
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 13.45 ft.
 Depth to Water * 4.15 ft.
 Length of Water Column 9.30 ft.
 Volume of Water in Well 1.52 gal.(s)
 3X Volume of Water in Well 4.56 gal.(s)
 Volume removed before sampling? 4.80 gal.(s)

Water Volume /ft. for:	
<input type="checkbox"/>	1" Diameter Well = 0.041 X LWC
<input checked="" type="checkbox"/>	2" Diameter Well = 0.163 X LWC
<input type="checkbox"/>	4" Diameter Well = 0.653 X LWC
<input type="checkbox"/>	6" Diameter Well = 1.469 X LWC

Did well go dry? _____
 (Other, Specify) _____
 * Measurements taken from Well Casing Protective Casing

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	_____	84 S Standard	_____
7.0 Standard	_____	1413 S Standard	_____
10.0 Standard	_____		

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings $\mu S/cm$	Turbidity Readings Ntu
initial <u>0</u>	initial <u>16.4</u>	initial <u>5.94</u>	initial <u>0.330</u>	initial <u>34</u>
<u>1.6</u>	<u>16.4</u>	<u>6.79</u>	<u>0.531</u>	<u>110</u>
<u>3.2</u>	<u>16.5</u>	<u>6.80</u>	<u>0.533</u>	<u>180</u>
<u>4.8</u>	<u>16.5</u>	<u>6.54</u>	<u>0.546</u>	<u>180</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1110

Physical Appearance at Start		Physical Appearance at Sampling	
Color <u>Clear</u>	_____	Color <u>clearish</u>	_____
Odor <u>None</u>	_____	Odor <u>None</u>	_____
Turbidity (> 100 NTU) <u>No (34)</u>	_____	Turbidity (> 100 NTU) <u>180</u>	_____
Sheen/Free Product <u>None</u>	_____	Sheen/Free Product <u>None</u>	_____

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes: FD

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Sunny 68°F
 Well # MW-8R
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 15.68 ft.
 Depth to Water * 4.73 ft.
 Length of Water Column 10.95 ft.
 Volume of Water in Well 1.78 gal.(s)
 3X Volume of Water in Well 5.34 gal.(s)
 Volume removed before sampling? 6 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 X 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Did well go dry? _____
 * Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	_____	84 S Standard	_____
7.0 Standard	_____	1413 S Standard	_____
10.0 Standard	_____		

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
initial 0	initial 14.9	initial 6.88	initial 0.774	initial 170
2	15.3	6.85	0.825	>1000
4	15.3	7.40	0.824	71000
6	15.2	7.37	0.826	

Water Sample:

Time Collected 1315

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>Clearish</u>	Color <u>DK Green</u>
Odor <u>None</u>	Odor <u>None</u>
Turbidity (> 100 NTU) <u>170</u>	Turbidity (> 100 NTU) <u>>1000</u>
Sheen/Free Product <u>None</u>	Sheen/Free Product <u>None</u>

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Partly Cloudy 60°F
 Well # MW-9
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 12.44 ft.
 Depth to Water * 2.14 ft.
 Length of Water Column 10.30 ft.
 Volume of Water in Well 1.68 gal.(s)
 3X Volume of Water in Well 5.04 gal.(s)
 Volume removed before sampling? 0.25 gal.(s)

Water Volume /ft. for:
 ___ 1" Diameter Well = 0.041 X LWC
X 2" Diameter Well = 0.163 X LWC
 ___ 4" Diameter Well = 0.653 X LWC
 ___ 6" Diameter Well = 1.469 X LWC

Did well go dry? NO
 (Other, Specify) _____
 * Measurements taken from Well Casing Protective Casing

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

	Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings μ S/cm	Turbidity Readings Ntu
initial	<u>1.880</u>	initial <u>17.2</u>	initial <u>1.88</u>	initial <u>1.58</u>	initial <u>72</u>
	<u>1.75</u>	<u>17.7</u>	<u>1.89</u>	<u>1.45</u>	<u>140</u>
	<u>3.5</u>	<u>18.3</u>	<u>1.90</u>	<u>1.31</u>	<u>320</u>
	<u>5.25</u>	<u>18.0</u>	<u>2.40</u>	<u>1.31</u>	<u>350</u>

Water Sample:

Time Collected 0940

Physical Appearance at Start

Color Clear
 Odor Slight Sulfur
 Turbidity (> 100 NTU) No
 Sheen/Free Product None

Physical Appearance at Sampling

Color Gray
 Odor med-strong Sulfur
 Turbidity (> 100 NTU) 350
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes: ns/msd

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Mostly Sunny 60°F
 Well # MW-10
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 12.15 ft.
 Depth to Water * 3.68 ft.
 Length of Water Column 8.47 ft.
 Volume of Water in Well 1.38 gal.(s)
 3X Volume of Water in Well 4.14 gal.(s)
 Volume removed before sampling? 4.5 gal.(s)

Water Volume /ft. for:
 1" Diameter Well = 0.041 X LWC
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Did well go dry? _____
 (Other, Specify) _____
 * Measurements taken from Well Casing Protective Casing

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings $\mu\text{S}/\text{cm}$ <i>ms/cm</i>	Turbidity Readings Ntu
initial <u>0</u>	initial <u>17.1</u>	initial <u>5.62</u>	initial <u>1.01</u>	initial <u>80</u>
<u>1.5</u>	<u>17.3</u>	<u>6.61</u>	<u>0.909</u>	<u>>1000</u>
<u>3.0</u>	<u>17.3</u>	<u>5.94</u>	<u>0.917</u>	<u>>1000</u>
<u>4.5</u>	<u>17.2</u>	<u>5.84</u>	<u>0.918</u>	<u>>1000</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 10:35

Physical Appearance at Start

Color Clear
 Odor None
 Turbidity (> 100 NTU) N/A (80)
 Sheen/Free Product None

Physical Appearance at Sampling

Color DK Green
 Odor Slight Sulfur
 Turbidity (> 100 NTU) >1000
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes:

O'Brien & Gere Engineers, Inc.		Standard Ground Water Sampling Log	
Date	<u>10/8/2008</u>	Weather	<u>Mostly sunny</u>
Site Name	<u>Utica Alloys</u>	Well #	<u>MW-11</u>
Location	<u>Utica, New York</u>	Evacuation Method	<u>Disposable Bailer</u>
Project No.	<u>40931</u>	Sampling Method	<u>Disposable Bailer</u>
Personnel	<u>Paul Freyer</u>		

Well Information:		Water Volume /ft. for: <input checked="" type="checkbox"/> 1" Diameter Well = 0.041 X LWC <input type="checkbox"/> 2" Diameter Well = 0.163 X LWC <input type="checkbox"/> 4" Diameter Well = 0.653 X LWC <input type="checkbox"/> 6" Diameter Well = 1.469 X LWC
Depth of Well *	<u>11.91</u> ft.	
Depth to Water *	<u>3.51</u> ft.	
Length of Water Column	<u>8.40</u> ft.	
Volume of Water in Well	<u>0.34</u> gal.(s)	
3X Volume of Water in Well	<u>1.02</u> gal.(s)	
Volume removed before sampling?	<u>1.5</u> gal.(s)	Did well go dry? _____
* Measurements taken from <input checked="" type="checkbox"/> Well Casing <input type="checkbox"/> Protective Casing <input type="checkbox"/> (Other, Specify) _____		

Instrument Calibration:	
pH Buffer Readings	Conductivity Standard Readings
4.0 Standard _____	84 S Standard _____
7.0 Standard _____	1413 S Standard _____
10.0 Standard _____	

Water parameters:				
Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm <i>ms/cm</i>	Turbidity Readings Ntu
initial <u>0</u>	initial <u>16.3</u>	initial <u>8.25</u>	initial <u>0.493</u>	initial <u>450</u>
<u>0.5</u>	<u>16.3</u>	<u>7.35</u>	<u>0.515</u>	<u>>1000</u>
<u>1.0</u>	<u>16.1</u>	<u>7.25</u>	<u>0.533</u>	<u>>1000</u>
<u>1.5</u>	<u>16.3</u>	<u>6.95</u>	<u>0.547</u>	<u>>1000</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:	
Time Collected	<u>1150</u>
Physical Appearance at Start	Physical Appearance at Sampling
Color <u>Clearish</u>	Color <u>Dark Gray</u>
Odor <u>None</u>	Odor <u>None</u>
Turbidity (> 100 NTU) <u>450</u>	Turbidity (> 100 NTU) <u>>1000</u>
Sheen/Free Product <u>None</u>	Sheen/Free Product <u>None</u>

Samples collected:					
Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/8/2008
 Site Name Utica Alloys
 Location Utica, New York
 Project No. 40931
 Personnel Paul Freyer

Weather Sunny 76°F
 Well # MW-B3R
 Evacuation Method Disposable Bailer
 Sampling Method Disposable Bailer

Well Information:

Depth of Well * 15.20 ft.
 Depth to Water * 4.69 ft.
 Length of Water Column 10.51 ft.
 Volume of Water in Well 1.71 gal.(s)
 3X Volume of Water In Well 5.13 gal.(s)
 Volume removed before sampling? 6 gal.(s)

Water Volume /ft. for:
 _____ 1" Diameter Well = 0.041 X LWC
X 2" Diameter Well = 0.163 X LWC
 _____ 4" Diameter Well = 0.653 X LWC
 _____ 6" Diameter Well = 1.469 X LWC

Did well go dry? _____
 (Other, Specify) _____
 * Measurements taken from Well Casing Protective Casing

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm mS/cm	Turbidity Readings Ntu
initial <u>0</u>	initial <u>17.2</u>	initial <u>6.78</u>	initial <u>0.556</u>	initial <u>120</u>
<u>2</u>	<u>16.7</u>	<u>7.43</u>	<u>0.563</u>	<u>55</u>
<u>4</u>	<u>16.6</u>	<u>7.35</u>	<u>0.569</u>	<u>45</u>
<u>6</u>	<u>16.7</u>	<u>7.07</u>	<u>0.570</u>	<u>30</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Water Sample:

Time Collected 1350

Physical Appearance at Start

Color Clear
 Odor None
 Turbidity (> 100 NTU) 120
 Sheen/Free Product None

Physical Appearance at Sampling

Color Clear
 Odor None
 Turbidity (> 100 NTU) 30
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Clear Glass VOA	3	No	1:1 HCl	N/A
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Notes:

Data Usability Summary Report

13053/40931

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853


Phone (518) 251-4429

Facsimile (518) 251-4428

LETTER OF TRANSMITTAL

TO: Scott Tucker

COMPANY: OBG Engineers

FROM: Judy Harry 

DATE: 12-02-08

ENCLOSED: DUSR for the Utica Alloys site
LSL SDG Nos. 0712123, 0804039, 0808122, and 0810069

Includes qualified sample report forms

Copy of associated invoice—original was sent to
Accts Payable

COMMENTS: narrative of report is as emailed

Ship via: US Express _____ UPS _____ US Priority X Fed Ex _____ Other _____

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

Facsimile 518-251-4428

December 1, 2008

Scott Tucker
O'Brien & Gere Engineers
4000 Brittonfield Parkway
Syracuse, NY 13221

RE: Utica Alloy site
Data Usability Summary Report (DUSR)
LSL SDG Nos. 0712123, 0804039, 0808122, and 0810069

Dear Mr. Tucker:

Review has been completed for the data packages generated by Life Science Laboratories that pertain to samples collected between December 19, 2007 and October 9, 2008 at the Utica Alloys site. Twenty aqueous samples and three field duplicates were processed for TCL volatiles by USEPA method 8260B, with additional requirements of the NYSDEC ASP. Trip blanks were also analyzed.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Case Narratives
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Laboratory Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Matrix Spiked Blanks/Laboratory Control Samples
- * Instrumental Tunes
- * Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, results for most of the samples are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers.

Copies of the laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Also included with this report are validation qualifier definitions and red-ink qualified sample results forms.

The following text discusses quality issues of concern.

General

Some of the coolers were received on ice at slightly elevated temperatures. However, the samples had been collected earlier the same days, and were in the process of cooling. No qualification of data is indicated.

TCL Volatiles by EPA 8260B or CLP

The result for cyclohexane in MW-9-121907 is qualified as tentative in identification and estimated in value ("NJ" qualifier) due to poor mass spectral quality.

The result for chloroethane in MW-9-121907 is edited to reflect non-detection ("U") due to very poor mass spectral quality.

Results for analytes initially reported with the "E" laboratory flag are to be derived from the dilution analyses of those samples.

MW-7-040408 was re-analyzed at dilution in order to bring the response for trichloroethene into calibration range. However, the analysis is beyond the allowable holding time, and that result is therefore to be qualified as estimated ("J"), with a possible low bias.

When a dilution analysis was processed for MW-10-100908, it was found that the constituency of the two vials differed by three to four-fold. This is not typical of aqueous samples. The higher detected values are to be used, and qualified as estimated in value ("J")

Surrogate and internal standard responses are within required limits.

The detections of methylene chloride in MW-7-100908 and FD-100908 are to be edited to reflect non-detection ("U") due to presence in associated method or trip blanks:

Calibration standard responses are within guidelines, with the following exception, results for which are qualified as estimated ("UJ" or "J") in the indicated samples:

- o acetone (low RRF) in the samples reported in SDG 0804039

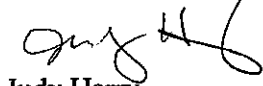
Matrix spikes of MW-9-040408 and MW-9-100908 show acceptable recoveries and correlations. The matrix spikes of MW-4-121907 show elevated recoveries for seven analytes in one of the spikes (with 6 subsequent elevated duplicate correlations). The only affected analyte reporting detection in the parent sample is vinyl chloride. That result is qualified as estimated in value ("J").

Blind field duplicate evaluations were performed on MW-10-121907, MW-B3R-040408, and MW-7-100908. All correlations are within validation guidelines.

Some of the samples were processed at initial dilution due to high sample target analyte concentrations. That resulted in elevated reporting limits for analytes not detected.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,



Judy Harry

Att

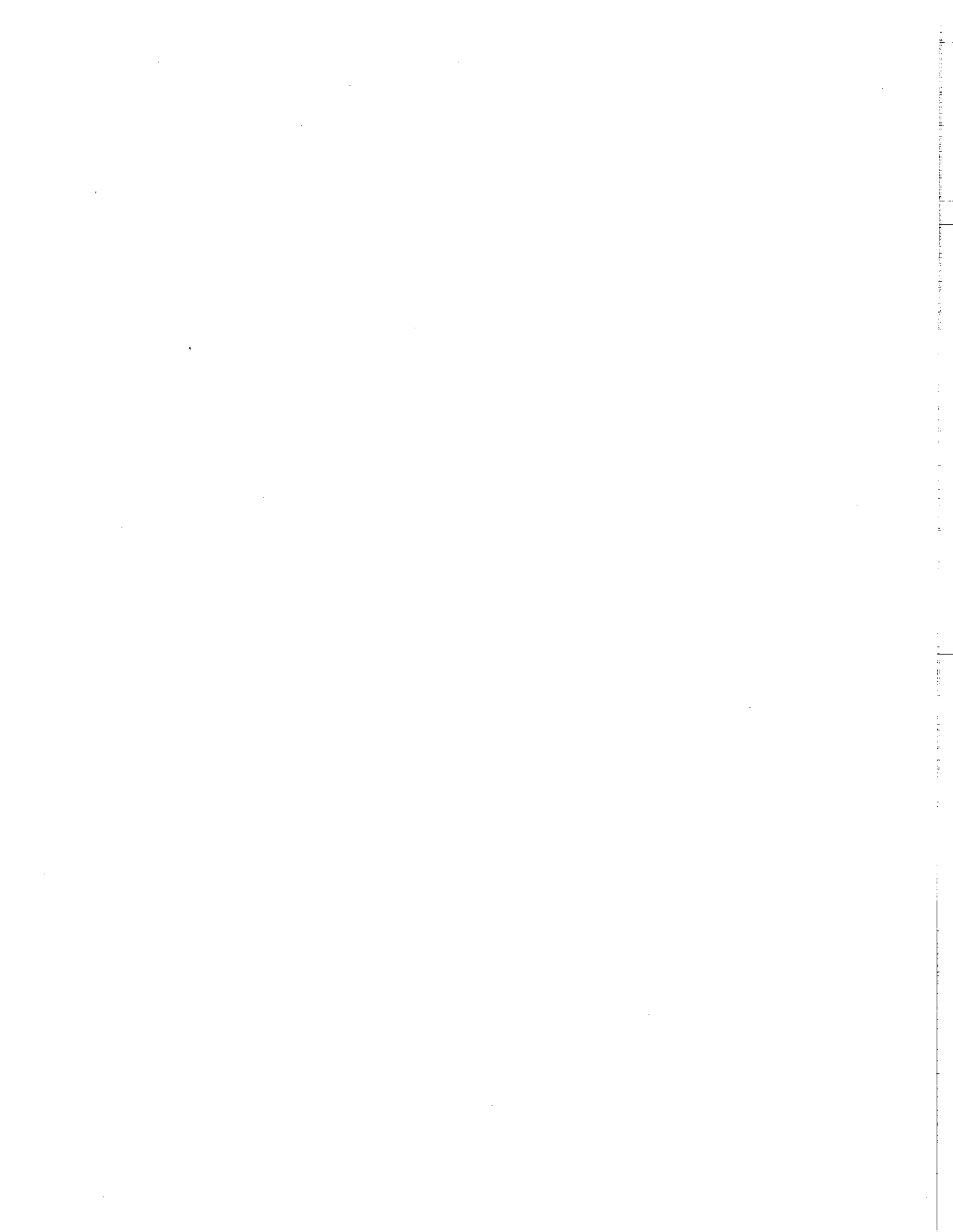
VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**CLIENT and LABORATORY SAMPLE IDs
and CASE NARRATIVES**



CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
Lab Order: 0712123

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0712123-001A	MW-11-121907		12/19/2007	12/19/2007
0712123-002A	MW-4-121907		12/19/2007	12/19/2007
0712123-003A	MW-10-121907		12/19/2007	12/19/2007
0712123-004A	MW-7-121907		12/19/2007	12/19/2007
0712123-005A	MW-9-121907		12/19/2007	12/19/2007
0712123-006A	MW-B3R-121907		12/19/2007	12/19/2007
0712123-007A	FIELD DUP-121907		12/19/2007	12/19/2007
0712123-008A	TRIP BLANK-121907		12/19/2007	12/19/2007

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
Lab Order: 0804039

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0804039-001A	MW-9_040408		4/4/2008	4/4/2008
0804039-002A	MW-4_040408		4/4/2008	4/4/2008
0804039-003A	MW-10_040408		4/4/2008	4/4/2008
0804039-004A	MW-7_040408		4/4/2008	4/4/2008
0804039-005A	MW-11_040408		4/4/2008	4/4/2008
0804039-006A	FD_040408		4/4/2008	4/4/2008
0804039-007A	TB_040408		4/4/2008	4/4/2008
0804039-008A	MW-B3R_040408		4/4/2008	4/4/2008

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
Lab Order: 0808122

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0808122-001A	MW-8R-082108		8/21/2008	8/21/2008
0808122-002A	Trip Blank		8/21/2008	8/21/2008

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
Lab Order: 0810069

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0810069-001A	MW-9_100908		10/9/2008	10/9/2008
0810069-002A	MW-10_100908		10/9/2008	10/9/2008
0810069-003A	MW-7_100908		10/9/2008	10/9/2008
0810069-004A	MW-11_100908		10/9/2008	10/9/2008
0810069-005A	MW-4_100908		10/9/2008	10/9/2008
0810069-006A	MW-8_100908		10/9/2008	10/9/2008
0810069-007A	MW-B3R_100908		10/9/2008	10/9/2008
0810069-008A	FD_100908		10/9/2008	10/9/2008
0810069-009A	TB_100908		10/9/2008	10/9/2008

GC/MS Volatile Organics Case Narrative

Client: OBG
 Project/Order: Utica Alloy - IRM
 Work Order #: 0712123
 Methodology: 8260B

Analyzed/Reviewed by (Initials/Date): AD (-28-08)

Supervisor/Reviewed by (Initials/Date): AD (-28-08)

QA/QC Review (Initials/Date): WT (-28-08)

File Name: G:\Narratives\MSVoa\0712123msvnr.doc

GC/MS Volatile Organics

The GC/MS Volatile instruments used a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column and a Vocab 3000 trap.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample

The following compounds did not meet laboratory control sample recovery criteria:

LCS No.	Compound	Corrective Action
LCS-12437	1,1,2,2-Tetrachloroethane	1
	1,2-Dibromo-3-chloropropane	1
LCS -12450	Carbon disulfide	1
	Isopropylbenzene	1
LCS / LCSD-12450	1,2-Dibromo-3-chloropropane	1
	1,1,2,2-Tetrachloroethane	1

- The recovery exceeded the upper control limit and was not detected above the PQL/RL in the associated samples. No corrective action was taken.

MS/MSD/MSB

The following compounds did not meet matrix spike/matrix spike duplicate percent recovery and/or RPD criteria:

Sample Description	Sample #	Compound	% REC	RPD	Corrective Action
MW-4-121907	0712123-002AMS / MSD	1,1,2,2-Tetrachloroethane	X		1
		Carbon disulfide	X		1
	Dichlorodifluoromethane		X	1	
	Chloromethane	X	X	1	
	Vinyl chloride	X	X	1	

GC/MS Volatile Organics Case Narrative

Client: OBG
 Project/Order: Utica Alloy - IRM
 Work Order #: 0712123
 Methodology: 8260B

Sample Description	Sample #	Compound	% REC	RPD	Corrective Action
		Chloroethane	X	X	1
		Trichlorofluoromethane	X	X	1
		1,1,2-Trichloro-1,2,2-trifluoroethane	X	X	1
		1,2,4-Trichlorobenzene	X		1

1 The associated MSB met acceptance limits. No corrective action was taken.

Surrogate Standards

All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards

All internal standard areas met method and/or project specific QC criteria.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

GC/MS Volatile Organics Case Narrative

Client: OBG-MS
Project/Order: Utica Alloy - IRM
Work Order #: 0804039
Methodology: 8260B

Analyzed/Reviewed by (Initials/Date): JK 4/25/08

Supervisor/Reviewed by (Initials/Date): MT 4-25-08

QA/QC Review (Initials/Date): JK 4/25/08

File Name: G:\Narratives\MSVoa\0804039msvnr.doc

GC/MS Volatile Organics

The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocab 3000 adsorbent trap.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements, except MW-7_040408 [0804039-004ADL]. Samples had a pH of < 2.

Laboratory Control Sample

The following compound(s) did not meet laboratory control sample recovery criteria:

LCS No.	Compound	Corrective Action
LCS-13417	Trichloroethene	1

- 1 The recovery marginally exceeded the upper control limit and was detected above the PQL/RL in the associated samples. No corrective action was taken. The duplicate LCS met acceptance limits.

MS/MSD/MSB

All spike recovery and RPD data met method and/or project specific QC criteria.

Surrogate Standards

All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards

All internal standard areas met method and/or project specific QC criteria.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

NARRATIVE

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for O'Brien & Gere Engineers, Inc. samples from Utica Alloy-IRM. New York State Department of Environmental Conservation forms are included in the Sample Data Summary Package.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler was received intact. When the coolers were received by the laboratory, the sample custodian(s) opened and inspected the shipments for damage and custody inconsistencies. Chain of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

No discrepancies were noted upon receipt. The iced-cooler temperature was 14.6°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1

- 1) New York State Department of Environmental Conservation Analytical Services Protocol, June 2000.

QUALITY CONTROL

QA/QC results are summarized in the Sample Data Summary Package and are also included in the raw data.

RAW DATA

The raw data is organized according to the New York State Department of Environmental Conservation Analytical Services Protocol Category "B" order of data requirements.

Total # of pages in this report: _____

GC/MS Volatile Organics Case Narrative

Client: OBG-MS
Project/Order: Utica Alloy - IRM
Work Order #: 0808122
Methodology: 8260B

Analyzed/Reviewed by (Initials/Date): LL 8/29/08

Supervisor/Reviewed by (Initials/Date): MD 8/29/08

QA/QC Review (Initials/Date): MI 9-3-08

File Name: G:\Narratives\MSVoa\0808122msvnr.doc

GC/MS Volatile Organics

The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocab 3000 adsorbent trap.

There were no excursions to note. All QC results were within established control limits.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample

All spike recoveries met method and/or project specific QC criteria.

Surrogate Standards

All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards

All internal standard areas met method and/or project specific QC criteria.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

NARRATIVE

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for O'Brien & Gere Engineers, Inc. samples from Utica Alloy-IRM. New York State Department of Environmental Conservation forms are included in the Sample Data Summary Package.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler was received intact. When the coolers were received by the laboratory, the sample custodian(s) opened and inspected the shipments for damage and custody inconsistencies. Chain of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

Discrepancies noted upon receipt are listed on the sample receipt checklist in the chain of custody section. The iced-cooler temperature was 9.6°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1

- 1) New York State Department of Environmental Conservation Analytical Services Protocol, June 2000.

QUALITY CONTROL

QA/QC results are summarized in the Sample Data Summary Package and are also included in the raw data.

RAW DATA

The raw data is organized according to the New York State Department of Environmental Conservation Analytical Services Protocol Category "B" order of data requirements.

Total # of pages in this report: _____

GC/MS Volatile Organics Case Narrative

Client: OBG-MS
Project/Order: Utica Alloy- IRM
Work Order #: 0810069
Methodology: 8260B

Analyzed/Reviewed by (Initials/Date): LLD 10/28/08

Supervisor/Reviewed by (Initials/Date): MD 10-28-08

QA/QC Review (Initials/Date): g2 g2 Lk 10/28/08

File Name: G:\Narratives\MSVoa\0810069msvnr.doc

GC/MS Volatile Organics

The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 40 m x 0.18 mm ID capillary column (MS01 & MS03), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocab 3000 adsorbent trap.

Holding Times and Sample Preservation

All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample

All spike recoveries met method and/or project specific QC criteria.

MS/MSD/MSB

All spike recovery and RPD data met method and/or project specific QC criteria.

Surrogate Standards

All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards

All internal standard areas met method and/or project specific QC criteria.

Calibrations

All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks

All preparation blanks met method and/or project specific QC criteria.

Miscellaneous

A discrepancy was noted between vials #2 and #3 of sample MW-10_100908 [0810069-002A]. Vial #3 measured three to four times higher levels of the target analytes vinyl chloride and cis-1,2-dichloroethene than vial #2. The results for both vials are reported with the vial number referenced.

QUALIFIED SAMPLE REPORT FORMS



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM

Lab ID: 0712123-001A
Client Sample ID: MW-11-121907
Collection Date: 12/19/07 11:09
Date Received: 12/19/07 18:00
PrepDate:
BatchNo: R12437
FileID: 1-SAMP-T1751.D

W Order: 0712123
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 12/31/07 11:10
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SW8260B							
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
Dichlorodifluoromethane	ND		20.0	1.34	µg/L	20	12/26/07 11:27
Chloromethane	ND		20.0	2.52	µg/L	20	12/26/07 11:27
Vinyl chloride	188		20.0	0.76	µg/L	20	12/26/07 11:27
Bromomethane	ND		20.0	1.18	µg/L	20	12/26/07 11:27
Chloroethane	ND		20.0	2.32	µg/L	20	12/26/07 11:27
Trichlorofluoromethane	ND		20.0	0.40	µg/L	20	12/26/07 11:27
1,1-Dichloroethene	ND		10.0	0.92	µg/L	20	12/26/07 11:27
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	0.86	µg/L	20	12/26/07 11:27
Acetone	ND	200		16.5	µg/L	20	12/26/07 11:27
Carbon disulfide	ND	10.0		0.40	µg/L	20	12/26/07 11:27
Methyl acetate	ND	10.0		6.10	µg/L	20	12/26/07 11:27
Methylene chloride	ND	40.0		0.68	µg/L	20	12/26/07 11:27
trans-1,2-Dichloroethene	ND	10.0		0.54	µg/L	20	12/26/07 11:27
Methyl tert-butyl ether	ND	10.0		0.50	µg/L	20	12/26/07 11:27
1,1-Dichloroethane	ND	10.0		0.66	µg/L	20	12/26/07 11:27
cis-1,2-Dichloroethene	479	10.0		0.64	µg/L	20	12/26/07 11:27
2-Butanone	ND	200		13.0	µg/L	20	12/26/07 11:27
Chloroform	ND	10.0		0.58	µg/L	20	12/26/07 11:27
1,1,1-Trichloroethane	ND	10.0		0.30	µg/L	20	12/26/07 11:27
Cyclohexane	ND	10.0		1.14	µg/L	20	12/26/07 11:27
Carbon tetrachloride	ND	10.0		0.64	µg/L	20	12/26/07 11:27
Benzene	ND	10.0		0.20	µg/L	20	12/26/07 11:27
1,2-Dichloroethane	ND	10.0		0.48	µg/L	20	12/26/07 11:27
Trichloroethene	282	10.0		0.54	µg/L	20	12/26/07 11:27
Methylcyclohexane	ND	10.0		0.68	µg/L	20	12/26/07 11:27
1,2-Dichloropropane	ND	10.0		0.52	µg/L	20	12/26/07 11:27
Bromodichloromethane	ND	10.0		0.62	µg/L	20	12/26/07 11:27
cis-1,3-Dichloropropene	ND	10.0		0.42	µg/L	20	12/26/07 11:27
4-Methyl-2-pentanone	ND	100		7.50	µg/L	20	12/26/07 11:27
Toluene	ND	10.0		0.36	µg/L	20	12/26/07 11:27
trans-1,3-Dichloropropane	ND	10.0		0.58	µg/L	20	12/26/07 11:27
1,1,2-Trichloroethane	ND	10.0		0.56	µg/L	20	12/26/07 11:27
Tetrachloroethene	ND	10.0		0.60	µg/L	20	12/26/07 11:27

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Print Date: 12/31/07 15:57

332667

Project Supervisor: Monika Santucci



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-001A

Client Sample ID: MW-11-121907

Collection Date: 12/19/07 11:09

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: 1-SAMP-T1751.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND	100		11.6	µg/L	20	12/26/07 11:27
Dibromochloromethane	ND	10.0		0.82	µg/L	20	12/26/07 11:27
1,2-Dibromoethane	ND	10.0		0.70	µg/L	20	12/26/07 11:27
Chlorobenzene	ND	10.0		0.22	µg/L	20	12/26/07 11:27
Ethylbenzene	ND	10.0		0.48	µg/L	20	12/26/07 11:27
Xylenes (total)	ND	20.0		0.84	µg/L	20	12/26/07 11:27
Styrene	ND	10.0		0.40	µg/L	20	12/26/07 11:27
Bromoform	ND	10.0		0.94	µg/L	20	12/26/07 11:27
Isopropylbenzene	ND	10.0		0.42	µg/L	20	12/26/07 11:27
1,1,2,2-Tetrachloroethane	ND	10.0		1.62	µg/L	20	12/26/07 11:27
1,3-Dichlorobenzene	ND	10.0		0.40	µg/L	20	12/26/07 11:27
1,4-Dichlorobenzene	ND	10.0		0.34	µg/L	20	12/26/07 11:27
1,2-Dichlorobenzene	ND	10.0		0.38	µg/L	20	12/26/07 11:27
1,2-Dibromo-3-chloropropane	ND	20.0		5.22	µg/L	20	12/26/07 11:27
1,2,4-Trichlorobenzene	ND	20.0		0.50	µg/L	20	12/26/07 11:27
Surr: Dibromofluoromethane	112	75-127		0.52	%REC	20	12/26/07 11:27
Surr: 1,2-Dichloroethane-d4	115	75-134		0.74	%REC	20	12/26/07 11:27
Surr: Toluene-d8	106	75-125		0.24	%REC	20	12/26/07 11:27
Surr: 4-Bromofluorobenzene	88.6	75-125		0.70	%REC	20	12/26/07 11:27

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-11-121907

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0712123

Matrix: (soil/water) WATER

Lab Sample ID: 0712123-001A

Sample wt/vol: 10 (g/mL) ML

Lab File ID: T1751.D

Level: LOW

Date Received: 12/19/2007

% Moisture: not dec.

Date Analyzed: 12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 20.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0712123-002A
Project: Utica Alloy- IRM	Client Sample ID: MW-4-121907
W Order: 0712123	Collection Date: 12/19/07 12:00
Matrix: WATER	Date Received: 12/19/07 18:00
Inst. ID: MS01 11	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R12437
Revision: 12/31/07 11:10	FileID: 1-SAMP-T1752.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
Dichlorodifluoromethane	ND		100	6.70	µg/L	100	12/26/07 12:01
Chloromethane	ND		100	12.6	µg/L	100	12/26/07 12:01
Vinyl chloride	138	J	100	3.80	µg/L	100	12/26/07 12:01
Bromomethane	ND		100	5.90	µg/L	100	12/26/07 12:01
Chloroethane	ND		100	11.6	µg/L	100	12/26/07 12:01
Trichlorofluoromethane	ND		100	2.00	µg/L	100	12/26/07 12:01
1,1-Dichloroethene	ND		50.0	4.60	µg/L	100	12/26/07 12:01
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	4.30	µg/L	100	12/26/07 12:01
Acetone	ND		1000	82.3	µg/L	100	12/26/07 12:01
Carbon disulfide	ND		50.0	2.00	µg/L	100	12/26/07 12:01
Methyl acetate	ND		50.0	30.5	µg/L	100	12/26/07 12:01
Methylene chloride	ND		200	3.40	µg/L	100	12/26/07 12:01
trans-1,2-Dichloroethene	ND		50.0	2.70	µg/L	100	12/26/07 12:01
Methyl tert-butyl ether	ND		50.0	2.50	µg/L	100	12/26/07 12:01
1,1-Dichloroethane	ND		50.0	3.30	µg/L	100	12/26/07 12:01
cis-1,2-Dichloroethene	2310		50.0	3.20	µg/L	100	12/26/07 12:01
2-Butanone	ND		1000	64.9	µg/L	100	12/26/07 12:01
Chloroform	ND		50.0	2.90	µg/L	100	12/26/07 12:01
1,1,1-Trichloroethane	ND		50.0	1.50	µg/L	100	12/26/07 12:01
Cyclohexane	ND		50.0	5.70	µg/L	100	12/26/07 12:01
Carbon tetrachloride	ND		50.0	3.20	µg/L	100	12/26/07 12:01
Benzene	ND		50.0	1.00	µg/L	100	12/26/07 12:01
1,2-Dichloroethane	ND		50.0	2.40	µg/L	100	12/26/07 12:01
Trichloroethene	953		50.0	2.70	µg/L	100	12/26/07 12:01
Methylcyclohexane	ND		50.0	3.40	µg/L	100	12/26/07 12:01
1,2-Dichloropropane	ND		50.0	2.60	µg/L	100	12/26/07 12:01
Bromodichloromethane	ND		50.0	3.10	µg/L	100	12/26/07 12:01
cis-1,3-Dichloropropene	ND		50.0	2.10	µg/L	100	12/26/07 12:01
4-Methyl-2-pentanone	ND		500	37.5	µg/L	100	12/26/07 12:01
Toluene	ND		50.0	1.80	µg/L	100	12/26/07 12:01
trans-1,3-Dichloropropene	ND		50.0	2.90	µg/L	100	12/26/07 12:01
1,1,2-Trichloroethane	ND		50.0	2.80	µg/L	100	12/26/07 12:01
Tetrachloroethene	ND		50.0	3.00	µg/L	100	12/26/07 12:01

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0712123
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 12/31/07 11:10
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0712123-002A
Client Sample ID: MW-4-121907
Collection Date: 12/19/07 12:00
Date Received: 12/19/07 18:00
PrepDate:
BatchNo: R12437
FileID: 1-SAMP-T1752.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND		500	58.0	µg/L	100	12/26/07 12:01
Dibromochloromethane	ND		50.0	4.10	µg/L	100	12/26/07 12:01
1,2-Dibromoethane	ND		50.0	3.50	µg/L	100	12/26/07 12:01
Chlorobenzene	ND		50.0	1.10	µg/L	100	12/26/07 12:01
Ethylbenzene	ND		50.0	2.40	µg/L	100	12/26/07 12:01
Xylenes (total)	ND		100	4.20	µg/L	100	12/26/07 12:01
Styrene	ND		50.0	2.00	µg/L	100	12/26/07 12:01
Bromoform	ND		50.0	4.70	µg/L	100	12/26/07 12:01
Isopropylbenzene	ND		50.0	2.10	µg/L	100	12/26/07 12:01
1,1,2,2-Tetrachloroethane	ND		50.0	8.10	µg/L	100	12/26/07 12:01
1,3-Dichlorobenzene	ND		50.0	2.00	µg/L	100	12/26/07 12:01
1,4-Dichlorobenzene	ND		50.0	1.70	µg/L	100	12/26/07 12:01
1,2-Dichlorobenzene	ND		50.0	1.90	µg/L	100	12/26/07 12:01
1,2-Dibromo-3-chloropropane	ND		100	26.1	µg/L	100	12/26/07 12:01
1,2,4-Trichlorobenzene	ND		100	2.50	µg/L	100	12/26/07 12:01
Surr: Dibromofluoromethane	112		75-127	2.60	%REC	100	12/26/07 12:01
Surr: 1,2-Dichloroethane-d4	115		75-134	3.70	%REC	100	12/26/07 12:01
Surr: Toluene-d8	107		75-125	1.20	%REC	100	12/26/07 12:01
Surr: 4-Bromofluorobenzene	87.9		75-125	3.50	%REC	100	12/26/07 12:01

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

MW-4-121907

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0712123

Matrix: (soil/water)

WATER

Lab Sample ID:

0712123-002A

Sample wt/vol: 10

(g/mL) ML

Lab File ID:

T1752.D

Level: LOW

Date Received:

12/19/2007

% Moisture: not dec.

Date Analyzed:

12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor:

100.00

Extract Volume: _____ (µl)

Number TICs found:

0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-003A

Client Sample ID: MW-10-121907

Collection Date: 12/19/07 13:30

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: 1-SAMP-T1753.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		2.00	0.13	µg/L	2	12/26/07 12:35
Chloromethane	ND		2.00	0.25	µg/L	2	12/26/07 12:35
Vinyl chloride	39.1		2.00	0.08	µg/L	2	12/26/07 12:35
Bromomethane	ND		2.00	0.12	µg/L	2	12/26/07 12:35
Chloroethane	ND		2.00	0.23	µg/L	2	12/26/07 12:35
Trichlorofluoromethane	ND		2.00	0.04	µg/L	2	12/26/07 12:35
1,1-Dichloroethene	ND		1.00	0.09	µg/L	2	12/26/07 12:35
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.09	µg/L	2	12/26/07 12:35
Acetone	ND		20.0	1.65	µg/L	2	12/26/07 12:35
Carbon disulfide	ND		1.00	0.04	µg/L	2	12/26/07 12:35
Methyl acetate	ND		1.00	0.61	µg/L	2	12/26/07 12:35
Methylene chloride	ND		4.00	0.07	µg/L	2	12/26/07 12:35
trans-1,2-Dichloroethene	ND		1.00	0.05	µg/L	2	12/26/07 12:35
Methyl tert-butyl ether	ND		1.00	0.05	µg/L	2	12/26/07 12:35
1,1-Dichloroethane	ND		1.00	0.07	µg/L	2	12/26/07 12:35
cis-1,2-Dichloroethene	37.4		1.00	0.06	µg/L	2	12/26/07 12:35
2-Butanone	ND		20.0	1.30	µg/L	2	12/26/07 12:35
Chloroform	ND		1.00	0.06	µg/L	2	12/26/07 12:35
1,1,1-Trichloroethane	ND		1.00	0.03	µg/L	2	12/26/07 12:35
Cyclohexane	ND		1.00	0.11	µg/L	2	12/26/07 12:35
Carbon tetrachloride	ND		1.00	0.06	µg/L	2	12/26/07 12:35
Benzene	ND		1.00	0.02	µg/L	2	12/26/07 12:35
1,2-Dichloroethane	ND		1.00	0.05	µg/L	2	12/26/07 12:35
Trichloroethene	2.10		1.00	0.05	µg/L	2	12/26/07 12:35
Methylcyclohexane	ND		1.00	0.07	µg/L	2	12/26/07 12:35
1,2-Dichloropropane	ND		1.00	0.05	µg/L	2	12/26/07 12:35
Bromodichloromethane	ND		1.00	0.06	µg/L	2	12/26/07 12:35
cis-1,3-Dichloropropene	ND		1.00	0.04	µg/L	2	12/26/07 12:35
4-Methyl-2-pentanone	ND		10.0	0.75	µg/L	2	12/26/07 12:35
Toluene	ND		1.00	0.04	µg/L	2	12/26/07 12:35
trans-1,3-Dichloropropene	ND		1.00	0.05	µg/L	2	12/26/07 12:35
1,1,2-Trichloroethane	ND		1.00	0.06	µg/L	2	12/26/07 12:35
Tetrachloroethene	ND		1.00	0.06	µg/L	2	12/26/07 12:35

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0712123
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 12/31/07 11:10
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0712123-003A
Client Sample ID: MW-10-121907
Collection Date: 12/19/07 13:30
Date Received: 12/19/07 18:00
PrepDate:
BatchNo: R12437
FileID: I-SAMP-T1753.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
2-Hexanone	ND	10.0		1.16	µg/L	2	12/26/07 12:35
Dibromochloromethane	ND	1.00		0.08	µg/L	2	12/26/07 12:35
1,2-Dibromoethane	ND	1.00		0.07	µg/L	2	12/26/07 12:35
Chlorobenzene	ND	1.00		0.02	µg/L	2	12/26/07 12:35
Ethylbenzene	ND	1.00		0.05	µg/L	2	12/26/07 12:35
Xylenes (total)	ND	2.00		0.08	µg/L	2	12/26/07 12:35
Styrene	ND	1.00		0.04	µg/L	2	12/26/07 12:35
Bromoform	ND	1.00		0.09	µg/L	2	12/26/07 12:35
Isopropylbenzene	ND	1.00		0.04	µg/L	2	12/26/07 12:35
1,1,2,2-Tetrachloroethane	ND	1.00		0.16	µg/L	2	12/26/07 12:35
1,3-Dichlorobenzene	ND	1.00		0.04	µg/L	2	12/26/07 12:35
1,4-Dichlorobenzene	ND	1.00		0.03	µg/L	2	12/26/07 12:35
1,2-Dichlorobenzene	ND	1.00		0.04	µg/L	2	12/26/07 12:35
1,2-Dibromo-3-chloropropane	ND	2.00		0.52	µg/L	2	12/26/07 12:35
1,2,4-Trichlorobenzene	ND	2.00		0.05	µg/L	2	12/26/07 12:35
Surr: Dibromofluoromethane	115	75-127		0.05	%REC	2	12/26/07 12:35
Surr: 1,2-Dichloroethane-d4	116	75-134		0.07	%REC	2	12/26/07 12:35
Surr: Toluene-d8	105	75-125		0.02	%REC	2	12/26/07 12:35
Surr: 4-Bromofluorobenzene	88.5	75-125		0.07	%REC	2	12/26/07 12:35

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-10-121907

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0712123

Matrix: (soil/water)

WATER

Lab Sample ID: 0712123-003A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T1753.D

Level: LOW

Date Received: 12/19/2007

% Moisture: not dec.

Date Analyzed: 12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 2.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-004A

Client Sample ID: MW-7-121907

Collection Date: 12/19/07 14:10

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: 1-SAMP-T1754.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		50.0	3.35	µg/L	50	12/26/07 13:09
Chloromethane	ND		50.0	6.30	µg/L	50	12/26/07 13:09
Vinyl chloride	ND		50.0	1.90	µg/L	50	12/26/07 13:09
Bromomethane	ND		50.0	2.95	µg/L	50	12/26/07 13:09
Chloroethane	ND		50.0	5.80	µg/L	50	12/26/07 13:09
Trichlorofluoromethane	ND		50.0	1.00	µg/L	50	12/26/07 13:09
1,1-Dichloroethene	ND		25.0	2.30	µg/L	50	12/26/07 13:09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	2.15	µg/L	50	12/26/07 13:09
Acetone	ND		500	41.2	µg/L	50	12/26/07 13:09
Carbon disulfide	ND		25.0	1.00	µg/L	50	12/26/07 13:09
Methyl acetate	ND		25.0	15.2	µg/L	50	12/26/07 13:09
Methylene chloride	ND		100	1.70	µg/L	50	12/26/07 13:09
trans-1,2-Dichloroethene	ND		25.0	1.35	µg/L	50	12/26/07 13:09
Methyl tert-butyl ether	ND		25.0	1.26	µg/L	50	12/26/07 13:09
1,1-Dichloroethane	ND		25.0	1.65	µg/L	50	12/26/07 13:09
cis-1,2-Dichloroethene	95.0		25.0	1.60	µg/L	50	12/26/07 13:09
2-Butanone	ND		500	32.4	µg/L	50	12/26/07 13:09
Chloroform	ND		25.0	1.45	µg/L	50	12/26/07 13:09
1,1,1-Trichloroethane	ND		25.0	0.75	µg/L	50	12/26/07 13:09
Cyclohexane	ND		25.0	2.85	µg/L	50	12/26/07 13:09
Carbon tetrachloride	ND		25.0	1.60	µg/L	50	12/26/07 13:09
Benzene	ND		25.0	0.50	µg/L	50	12/26/07 13:09
1,2-Dichloroethane	ND		25.0	1.20	µg/L	50	12/26/07 13:09
Trichloroethene	1480		25.0	1.35	µg/L	50	12/26/07 13:09
Methylcyclohexane	ND		25.0	1.70	µg/L	50	12/26/07 13:09
1,2-Dichloropropane	ND		25.0	1.30	µg/L	50	12/26/07 13:09
Bromodichloromethane	ND		25.0	1.55	µg/L	50	12/26/07 13:09
cis-1,3-Dichloropropene	ND		25.0	1.05	µg/L	50	12/26/07 13:09
4-Methyl-2-pentanone	ND		250	18.8	µg/L	50	12/26/07 13:09
Toluene	ND		25.0	0.90	µg/L	50	12/26/07 13:09
trans-1,3-Dichloropropene	ND		25.0	1.45	µg/L	50	12/26/07 13:09
1,1,2-Trichloroethane	ND		25.0	1.40	µg/L	50	12/26/07 13:09
Tetrachloroethene	ND		25.0	1.50	µg/L	50	12/26/07 13:09

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-004A

Client Sample ID: MW-7-121907

Collection Date: 12/19/07 14:10

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: 1-SAMP-T1754.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		250	29.0	µg/L	50	12/26/07 13:09
Dibromochloromethane	ND		25.0	2.05	µg/L	50	12/26/07 13:09
1,2-Dibromoethane	ND		25.0	1.75	µg/L	50	12/26/07 13:09
Chlorobenzene	ND		25.0	0.55	µg/L	50	12/26/07 13:09
Ethylbenzene	ND		25.0	1.20	µg/L	50	12/26/07 13:09
Xylenes (total)	ND		50.0	2.10	µg/L	50	12/26/07 13:09
Styrene	ND		25.0	1.00	µg/L	50	12/26/07 13:09
Bromofom	ND		25.0	2.35	µg/L	50	12/26/07 13:09
Isopropylbenzene	ND		25.0	1.05	µg/L	50	12/26/07 13:09
1,1,2,2-Tetrachloroethane	ND		25.0	4.05	µg/L	50	12/26/07 13:09
1,3-Dichlorobenzene	ND		25.0	1.00	µg/L	50	12/26/07 13:09
1,4-Dichlorobenzene	ND		25.0	0.85	µg/L	50	12/26/07 13:09
1,2-Dichlorobenzene	ND		25.0	0.95	µg/L	50	12/26/07 13:09
1,2-Dibromo-3-chloropropane	ND		50.0	13.0	µg/L	50	12/26/07 13:09
1,2,4-Trichlorobenzene	ND		50.0	1.25	µg/L	50	12/26/07 13:09
Surr: Dibromofluoromethane	111		75-127	1.30	%REC	50	12/26/07 13:09
Surr: 1,2-Dichloroethane-d4	114		75-134	1.85	%REC	50	12/26/07 13:09
Surr: Toluene-d8	106		75-125	0.60	%REC	50	12/26/07 13:09
Surr: 4-Bromofluorobenzene	89.0		75-125	1.75	%REC	50	12/26/07 13:09

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-7-121907

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OEG-MS

SAS No.: _____

SDG No.: 0712123

Matrix: (soil/water)

WATER

Lab Sample ID: 0712123-004A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T1754.D

Level: LOW

Date Received: 12/19/2007

% Moisture: not dec.

Date Analyzed: 12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 50.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0712123
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 12/31/07 16:02
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0712123-005A
Client Sample ID: MW-9-121907
Collection Date: 12/19/07 14:45
Date Received: 12/19/07 18:00
PrepDate:
BatchNo: R12450
FileID: 1-SAMP-T1777.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					SW8260B		
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	12/27/07 15:09	
Chloromethane	ND	1.00	0.13	µg/L	1	12/27/07 15:09	
Vinyl chloride	ND	1.00	0.04	µg/L	1	12/27/07 15:09	
Bromomethane	ND	1.00	0.06	µg/L	1	12/27/07 15:09	
Chloroethane	ND-0.56 J U	1.00	0.12	µg/L	1	12/27/07 15:09	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	12/27/07 15:09	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	12/27/07 15:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	12/27/07 15:09	
Acetone	ND	10.0	0.82	µg/L	1	12/27/07 15:09	
Carbon disulfide	ND	0.50	0.02	µg/L	1	12/27/07 15:09	
Methyl acetate	ND	0.50	0.30	µg/L	1	12/27/07 15:09	
Methylene chloride	ND	2.00	0.03	µg/L	1	12/27/07 15:09	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
Methyl tert-butyl ether	5.89	0.50	0.02	µg/L	1	12/27/07 15:09	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
2-Butanone	ND	10.0	0.65	µg/L	1	12/27/07 15:09	
Chloroform	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	12/27/07 15:09	
Cyclohexane	0.12 J NJ	0.50	0.06	µg/L	1	12/27/07 15:09	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
Benzene	ND	0.50	0.01	µg/L	1	12/27/07 15:09	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	12/27/07 15:09	
Trichloroethene	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	12/27/07 15:09	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	12/27/07 15:09	
Toluene	ND	0.50	0.02	µg/L	1	12/27/07 15:09	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	12/27/07 15:09	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	12/27/07 15:09	

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 16:02

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-005A

Client Sample ID: MW-9-121907

Collection Date: 12/19/07 14:45

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12450

FileID: 1-SAMP-T1777.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	12/27/07 15:09
Dibromochloromethane	ND		0.50	0.04	µg/L	1	12/27/07 15:09
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	12/27/07 15:09
Chlorobenzene	ND		0.50	0.01	µg/L	1	12/27/07 15:09
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/27/07 15:09
Styrene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
Bromoform	ND		0.50	0.05	µg/L	1	12/27/07 15:09
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	12/27/07 15:09
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/27/07 15:09
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	12/27/07 15:09
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	12/27/07 15:09
Surr: Dibromofluoromethane	112		75-127	0.03	%REC	1	12/27/07 15:09
Surr: 1,2-Dichloroethane-d4	117		75-134	0.04	%REC	1	12/27/07 15:09
Surr: Toluene-d8	105		75-125	0.01	%REC	1	12/27/07 15:09
Surr: 4-Bromofluorobenzene	90.9		75-125	0.04	%REC	1	12/27/07 15:09

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-9-121907

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0712123

Matrix: (soil/water) WATER Lab Sample ID: 0712123-005A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T1777.D

Level: LOW Date Received: 12/19/2007

% Moisture: not dec. Date Analyzed: 12/27/2007

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 1 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	unknown	5.06	1.75	J



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-006A

Client Sample ID: MW-B3R-121907

Collection Date: 12/19/07 15:30

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: 1-SAMP-T1756.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	12/26/07 14:42	
Chloromethane	ND	1.00	0.13	µg/L	1	12/26/07 14:42	
Vinyl chloride	ND	1.00	0.04	µg/L	1	12/26/07 14:42	
Bromomethane	ND	1.00	0.06	µg/L	1	12/26/07 14:42	
Chloroethane	ND	1.00	0.12	µg/L	1	12/26/07 14:42	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	12/26/07 14:42	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	12/26/07 14:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	12/26/07 14:42	
Acetone	ND	10.0	0.82	µg/L	1	12/26/07 14:42	
Carbon disulfide	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
Methyl acetate	ND	0.50	0.30	µg/L	1	12/26/07 14:42	
Methylene chloride	ND	2.00	0.03	µg/L	1	12/26/07 14:42	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
2-Butanone	ND	10.0	0.65	µg/L	1	12/26/07 14:42	
Chloroform	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
Cyclohexane	ND	0.50	0.06	µg/L	1	12/26/07 14:42	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
Benzene	ND	0.50	0.01	µg/L	1	12/26/07 14:42	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
Trichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	12/26/07 14:42	
Toluene	ND	0.50	0.02	µg/L	1	12/26/07 14:42	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	12/26/07 14:42	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	12/26/07 14:42	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0712123-006A
Project: Utica Alloy- IRM	Client Sample ID: MW-B3R-121907
W Order: 0712123	Collection Date: 12/19/07 15:30
Matrix: WATER	Date Received: 12/19/07 18:00
Inst. ID: MS01 11	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 12/31/07 11:10	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R12437
	FileID: 1-SAMP-T1756.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	12/26/07 14:42
Dibromochloromethane	ND		0.50	0.04	µg/L	1	12/26/07 14:42
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	12/26/07 14:42
Chlorobenzene	ND		0.50	0.01	µg/L	1	12/26/07 14:42
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/26/07 14:42
Styrene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
Bromofom	ND		0.50	0.05	µg/L	1	12/26/07 14:42
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	12/26/07 14:42
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 14:42
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	12/26/07 14:42
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	12/26/07 14:42
Surr: Dibromofluoromethane	112		75-127	0.03	%REC	1	12/26/07 14:42
Surr: 1,2-Dichloroethane-d4	114		75-134	0.04	%REC	1	12/26/07 14:42
Surr: Toluene-d8	105		75-125	0.01	%REC	1	12/26/07 14:42
Surr: 4-Bromofluorobenzene	85.4		75-125	0.04	%REC	1	12/26/07 14:42

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

MW-B3R-121907

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0712123

Matrix: (soil/water) WATER Lab Sample ID: 0712123-006A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T1756.D

Level: LOW Date Received: 12/19/2007

% Moisture: not dec. Date Analyzed: 12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0712123-007A
Project: Utica Alloy- IRM	Client Sample ID: FIELD DUP-121907
W Order: 0712123	Collection Date: 12/19/07 0:00
Matrix: WATER	Date Received: 12/19/07 18:00
Inst. ID: MS01 11	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 01/28/08 11:47	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R12450
	FileID: 1-SAMP-T1778.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		5.00	0.34	µg/L	5	12/27/07 15:42
Chloromethane	ND		5.00	0.63	µg/L	5	12/27/07 15:42
Vinyl chloride	37.4		5.00	0.19	µg/L	5	12/27/07 15:42
Bromomethane	ND		5.00	0.30	µg/L	5	12/27/07 15:42
Chloroethane	ND		5.00	0.58	µg/L	5	12/27/07 15:42
Trichlorofluoromethane	ND		5.00	0.10	µg/L	5	12/27/07 15:42
1,1-Dichloroethene	ND		2.50	0.23	µg/L	5	12/27/07 15:42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.50	0.22	µg/L	5	12/27/07 15:42
Acetone	ND		50.0	4.12	µg/L	5	12/27/07 15:42
Carbon disulfide	ND		2.50	0.10	µg/L	5	12/27/07 15:42
Methyl acetate	ND		2.50	1.52	µg/L	5	12/27/07 15:42
Methylene chloride	ND		10.0	0.17	µg/L	5	12/27/07 15:42
trans-1,2-Dichloroethene	ND		2.50	0.14	µg/L	5	12/27/07 15:42
Methyl tert-butyl ether	ND		2.50	0.12	µg/L	5	12/27/07 15:42
1,1-Dichloroethane	ND		2.50	0.16	µg/L	5	12/27/07 15:42
cis-1,2-Dichloroethane	40.5		2.50	0.16	µg/L	5	12/27/07 15:42
2-Butanone	ND		50.0	3.24	µg/L	5	12/27/07 15:42
Chloroform	ND		2.50	0.15	µg/L	5	12/27/07 15:42
1,1,1-Trichloroethane	ND		2.50	0.08	µg/L	5	12/27/07 15:42
Cyclohexane	ND		2.50	0.29	µg/L	5	12/27/07 15:42
Carbon tetrachloride	ND		2.50	0.16	µg/L	5	12/27/07 15:42
Benzene	ND		2.50	0.05	µg/L	5	12/27/07 15:42
1,2-Dichloroethane	ND		2.50	0.12	µg/L	5	12/27/07 15:42
Trichloroethene	3.50		2.50	0.14	µg/L	5	12/27/07 15:42
Methylcyclohexane	ND		2.50	0.17	µg/L	5	12/27/07 15:42
1,2-Dichloropropane	ND		2.50	0.13	µg/L	5	12/27/07 15:42
Bromodichloromethane	ND		2.50	0.16	µg/L	5	12/27/07 15:42
cis-1,3-Dichloropropene	ND		2.50	0.11	µg/L	5	12/27/07 15:42
4-Methyl-2-pentanone	ND		25.0	1.88	µg/L	5	12/27/07 15:42
Toluene	ND		2.50	0.09	µg/L	5	12/27/07 15:42
trans-1,3-Dichloropropene	ND		2.50	0.15	µg/L	5	12/27/07 15:42
1,1,2-Trichloroethane	ND		2.50	0.14	µg/L	5	12/27/07 15:42
Tetrachloroethene	ND		2.50	0.15	µg/L	5	12/27/07 15:42

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER

Inst. ID: MS01-11

ColumnID: Rtx-VMS

Revision: 01/28/08 11:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-007A

Client Sample ID: FIELD DUP-121907

Collection Date: 12/19/07 0:00

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12450

FileID: 1-SAMP-T1778.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		25.0	2.90	µg/L	5	12/27/07 15:42
Dibromochloromethane	ND		2.50	0.20	µg/L	5	12/27/07 15:42
1,2-Dibromoethane	ND		2.50	0.18	µg/L	5	12/27/07 15:42
Chlorobenzene	ND		2.50	0.06	µg/L	5	12/27/07 15:42
Ethylbenzene	ND		2.50	0.12	µg/L	5	12/27/07 15:42
Xylenes (total)	ND		5.00	0.21	µg/L	5	12/27/07 15:42
Styrene	ND		2.50	0.10	µg/L	5	12/27/07 15:42
Bromoform	ND		2.50	0.24	µg/L	5	12/27/07 15:42
Isopropylbenzene	ND		2.50	0.11	µg/L	5	12/27/07 15:42
1,1,2,2-Tetrachloroethane	ND		2.50	0.41	µg/L	5	12/27/07 15:42
1,3-Dichlorobenzene	ND		2.50	0.10	µg/L	5	12/27/07 15:42
1,4-Dichlorobenzene	ND		2.50	0.08	µg/L	5	12/27/07 15:42
1,2-Dichlorobenzene	ND		2.50	0.10	µg/L	5	12/27/07 15:42
1,2-Dibromo-3-chloropropane	ND		5.00	1.31	µg/L	5	12/27/07 15:42
1,2,4-Trichlorobenzene	ND		5.00	0.12	µg/L	5	12/27/07 15:42
Surr: Dibromofluoromethane	114		75-127	0.13	%REC	5	12/27/07 15:42
Surr: 1,2-Dichloroethane-d4	118		75-134	0.18	%REC	5	12/27/07 15:42
Surr: Toluene-d8	105		75-125	0.06	%REC	5	12/27/07 15:42
Surr: 4-Bromofluorobenzene	89.4		75-125	0.18	%REC	5	12/27/07 15:42

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD DUP-121907

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0712123

Matrix: (soil/water) WATER Lab Sample ID: 0712123-007A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T1778.D

Level: LOW Date Received: 12/19/2007

% Moisture: not dec. Date Analyzed: 12/27/2007

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 5.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-008A

Client Sample ID: TRIP BLANK-121907

Collection Date: 12/19/07 0:00

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: RI2437

FileID: 1-SAMP-TI758.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	12/26/07 16:31	
Chloromethane	ND	1.00	0.13	µg/L	1	12/26/07 16:31	
Vinyl chloride	ND	1.00	0.04	µg/L	1	12/26/07 16:31	
Bromomethane	ND	1.00	0.06	µg/L	1	12/26/07 16:31	
Chloroethane	ND	1.00	0.12	µg/L	1	12/26/07 16:31	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	12/26/07 16:31	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	12/26/07 16:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	12/26/07 16:31	
Acetone	ND	10.0	0.82	µg/L	1	12/26/07 16:31	
Carbon disulfide	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
Methyl acetate	ND	0.50	0.30	µg/L	1	12/26/07 16:31	
Methylene chloride	ND	2.00	0.03	µg/L	1	12/26/07 16:31	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
2-Butanone	ND	10.0	0.65	µg/L	1	12/26/07 16:31	
Chloroform	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
Cyclohexane	ND	0.50	0.06	µg/L	1	12/26/07 16:31	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
Benzene	ND	0.50	0.01	µg/L	1	12/26/07 16:31	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
Trichloroethene	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	12/26/07 16:31	
Toluene	ND	0.50	0.02	µg/L	1	12/26/07 16:31	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	12/26/07 16:31	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	12/26/07 16:31	

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertiNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0712123

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 12/31/07 11:10

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0712123-008A

Client Sample ID: TRIP BLANK-121907

Collection Date: 12/19/07 0:00

Date Received: 12/19/07 18:00

PrepDate:

BatchNo: R12437

FileID: I-SAMP-T1758.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	12/26/07 16:31
Dibromochloromethane	ND		0.50	0.04	µg/L	1	12/26/07 16:31
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	12/26/07 16:31
Chlorobenzene	ND		0.50	0.01	µg/L	1	12/26/07 16:31
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/26/07 16:31
Styrene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
Bromoform	ND		0.50	0.05	µg/L	1	12/26/07 16:31
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	12/26/07 16:31
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/26/07 16:31
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	12/26/07 16:31
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	12/26/07 16:31
Surr: Dibromofluoromethane	111		75-127	0.03	%REC	1	12/26/07 16:31
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	12/26/07 16:31
Surr: Toluene-d8	102		75-125	0.01	%REC	1	12/26/07 16:31
Surr: 4-Bromofluorobenzene	86.9		75-125	0.04	%REC	1	12/26/07 16:31

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

TRIP BLANK-121907

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0712123

Matrix: (soil/water) WATER Lab Sample ID: 0712123-008A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T1758.D

Level: LOW Date Received: 12/19/2007

% Moisture: not dec. Date Analyzed: 12/26/2007

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Lab ID: 0804039-001A

Client Sample ID: MW-9_040408

Collection Date: 04/04/08 10:50

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2035.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	04/09/08 15:24
Chloromethane	ND		1.00	0.50	µg/L	1	04/09/08 15:24
Vinyl chloride	ND		1.00	0.50	µg/L	1	04/09/08 15:24
Bromomethane	ND		1.00	0.19	µg/L	1	04/09/08 15:24
Chloroethane	ND		1.00	0.50	µg/L	1	04/09/08 15:24
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	04/09/08 15:24
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	04/09/08 15:24
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Acetone	ND	U3	10.0	2.50	µg/L	1	04/09/08 15:24
Carbon disulfide	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Methyl acetate	ND		5.00	2.50	µg/L	1	04/09/08 15:24
Methylene chloride	ND		2.00	0.16	µg/L	1	04/09/08 15:24
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Methyl tert-butyl ether	8.03		1.00	0.50	µg/L	1	04/09/08 15:24
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
2-Butanone	ND		10.0	2.50	µg/L	1	04/09/08 15:24
Chloroform	ND		0.50	0.10	µg/L	1	04/09/08 15:24
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Cyclohexane	0.44	J	0.50	0.25	µg/L	1	04/09/08 15:24
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	04/09/08 15:24
Benzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 15:24
Trichloroethene	ND		0.50	0.10	µg/L	1	04/09/08 15:24
Methylcyclohexane	0.39	J	0.50	0.25	µg/L	1	04/09/08 15:24
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Bromodichloromethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 15:24
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	04/09/08 15:24
Toluene	ND		0.50	0.10	µg/L	1	04/09/08 15:24
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 15:24
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 15:24
Tetrachloroethene	ND		0.50	0.10	µg/L	1	04/09/08 15:24

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0804039
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 04/10/08 11:15
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0804039-001A
Client Sample ID: MW-9_040408
Collection Date: 04/04/08 10:50
Date Received: 04/04/08 18:30
PrepDate:
BatchNo: R13228
FileID: 1-SAMP-T2035.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	04/09/08 15:24
Dibromochloromethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	04/09/08 15:24
Chlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Ethylbenzene	ND		0.50	0.10	µg/L	1	04/09/08 15:24
Xylenes (total)	ND		1.00	0.26	µg/L	1	04/09/08 15:24
Styrene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
Bromoform	ND		0.50	0.50	µg/L	1	04/09/08 15:24
Isopropylbenzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 15:24
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	04/09/08 15:24
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	04/09/08 15:24
Surr: 1,2-Dichloroethane-d4	103		75-134	0.10	%REC	1	04/09/08 15:24
Surr: Toluene-d8	106		75-125	0.10	%REC	1	04/09/08 15:24
Surr: 4-Bromofluorobenzene	105		75-125	0.10	%REC	1	04/09/08 15:24

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-9_040408

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0804039

Matrix: (soil/water)

WATER

Lab Sample ID: 0804039-001A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T2035.D

Level: LOW

Date Received: 4/4/08

% Moisture: not dec.

Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 1

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	unknown	2.96	1.39	J



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Lab ID: 0804039-002A

Client Sample ID: MW-4_040408

Collection Date: 04/04/08 11:55

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2036.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		100	25.0	µg/L	100	04/09/08 15:58
Chloromethane	ND		100	50.0	µg/L	100	04/09/08 15:58
Vinyl chloride	463		100	50.0	µg/L	100	04/09/08 15:58
Bromomethane	ND		100	19.0	µg/L	100	04/09/08 15:58
Chloroethane	ND		100	50.0	µg/L	100	04/09/08 15:58
Trichlorofluoromethane	ND		100	10.0	µg/L	100	04/09/08 15:58
1,1-Dichloroethene	ND		50.0	25.0	µg/L	100	04/09/08 15:58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Acetone	ND	WS	1000	250	µg/L	100	04/09/08 15:58
Carbon disulfide	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Methyl acetate	ND		500	250	µg/L	100	04/09/08 15:58
Methylene chloride	ND		200	16.0	µg/L	100	04/09/08 15:58
trans-1,2-Dichloroethene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Methyl tert-butyl ether	ND		100	50.0	µg/L	100	04/09/08 15:58
1,1-Dichloroethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
cis-1,2-Dichloroethene	2040		50.0	16.0	µg/L	100	04/09/08 15:58
2-Butanone	ND		1000	250	µg/L	100	04/09/08 15:58
Chloroform	ND		50.0	10.0	µg/L	100	04/09/08 15:58
1,1,1-Trichloroethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Cyclohexane	ND		50.0	25.0	µg/L	100	04/09/08 15:58
Carbon tetrachloride	ND		50.0	25.0	µg/L	100	04/09/08 15:58
Benzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,2-Dichloroethane	ND		50.0	25.0	µg/L	100	04/09/08 15:58
Trichloroethene	702		50.0	10.0	µg/L	100	04/09/08 15:58
Methylcyclohexane	ND		50.0	25.0	µg/L	100	04/09/08 15:58
1,2-Dichloropropane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Bromodichloromethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
cis-1,3-Dichloropropene	ND		50.0	25.0	µg/L	100	04/09/08 15:58
4-Methyl-2-pentanone	ND		500	100	µg/L	100	04/09/08 15:58
Toluene	ND		50.0	10.0	µg/L	100	04/09/08 15:58
trans-1,3-Dichloropropene	ND		50.0	25.0	µg/L	100	04/09/08 15:58
1,1,2-Trichloroethane	ND		50.0	25.0	µg/L	100	04/09/08 15:58
Tetrachloroethene	ND		50.0	10.0	µg/L	100	04/09/08 15:58

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy-IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-002A

Client Sample ID: MW-4_040408

Collection Date: 04/04/08 11:55

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2036.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		500	100	µg/L	100	04/09/08 15:58
Dibromochloromethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,2-Dibromoethane	ND		50.0	25.0	µg/L	100	04/09/08 15:58
Chlorobenzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Ethylbenzene	ND		50.0	10.0	µg/L	100	04/09/08 15:58
Xylenes (total)	ND		100	26.0	µg/L	100	04/09/08 15:58
Styrene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
Bromoform	ND		50.0	50.0	µg/L	100	04/09/08 15:58
Isopropylbenzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,1,2,2-Tetrachloroethane	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,3-Dichlorobenzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,4-Dichlorobenzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,2-Dichlorobenzene	ND		50.0	16.0	µg/L	100	04/09/08 15:58
1,2-Dibromo-3-chloropropane	ND		500	250	µg/L	100	04/09/08 15:58
1,2,4-Trichlorobenzene	ND		100	50.0	µg/L	100	04/09/08 15:58
Surr: 1,2-Dichloroethane-d4	102		75-134	10.0	%REC	100	04/09/08 15:58
Surr: Toluene-d8	104		75-125	10.0	%REC	100	04/09/08 15:58
Surr: 4-Bromofluorobenzene	105		75-125	10.0	%REC	100	04/09/08 15:58

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Volatiles Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-4_040408

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0804039

Matrix: (soil/water)

WATER

Lab Sample ID: 0804039-002A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T2036.D

Level: LOW

Date Received: 4/4/08

% Moisture: not dec.

Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 100.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rfx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-003A

Client Sample ID: MW-10_040408

Collection Date: 04/04/08 12:30

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2037.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		2.00	0.50	µg/L	2	04/09/08 16:33
Chloromethane	ND		2.00	1.00	µg/L	2	04/09/08 16:33
Vinyl chloride	24.5		2.00	1.00	µg/L	2	04/09/08 16:33
Bromomethane	ND		2.00	0.38	µg/L	2	04/09/08 16:33
Chloroethane	ND		2.00	1.00	µg/L	2	04/09/08 16:33
Trichlorofluoromethane	ND		2.00	0.20	µg/L	2	04/09/08 16:33
1,1-Dichloroethene	ND		1.00	0.50	µg/L	2	04/09/08 16:33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Acetone	ND	U	20.0	5.00	µg/L	2	04/09/08 16:33
Carbon disulfide	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Methyl acetate	ND		10.0	5.00	µg/L	2	04/09/08 16:33
Methylene chloride	ND		4.00	0.32	µg/L	2	04/09/08 16:33
trans-1,2-Dichloroethene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Methyl tert-butyl ether	ND		2.00	1.00	µg/L	2	04/09/08 16:33
1,1-Dichloroethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
cis-1,2-Dichloroethene	42.7		1.00	0.32	µg/L	2	04/09/08 16:33
2-Butanone	ND		20.0	5.00	µg/L	2	04/09/08 16:33
Chloroform	ND		1.00	0.20	µg/L	2	04/09/08 16:33
1,1,1-Trichloroethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Cyclohexane	ND		1.00	0.50	µg/L	2	04/09/08 16:33
Carbon tetrachloride	ND		1.00	0.50	µg/L	2	04/09/08 16:33
Benzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,2-Dichloroethane	ND		1.00	0.50	µg/L	2	04/09/08 16:33
Trichloroethene	0.66	J	1.00	0.20	µg/L	2	04/09/08 16:33
Methylcyclohexane	ND		1.00	0.50	µg/L	2	04/09/08 16:33
1,2-Dichloropropane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Bromodichloromethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
cis-1,3-Dichloropropene	ND		1.00	0.50	µg/L	2	04/09/08 16:33
4-Methyl-2-pentanone	ND		10.0	2.00	µg/L	2	04/09/08 16:33
Toluene	ND		1.00	0.20	µg/L	2	04/09/08 16:33
trans-1,3-Dichloropropene	ND		1.00	0.50	µg/L	2	04/09/08 16:33
1,1,2-Trichloroethane	ND		1.00	0.50	µg/L	2	04/09/08 16:33
Tetrachloroethene	ND		1.00	0.20	µg/L	2	04/09/08 16:33

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Lab ID: 0804039-003A

Client Sample ID: MW-10_040408

Collection Date: 04/04/08 12:30

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2037.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		10.0	2.00	µg/L	2	04/09/08 16:33
Dibromochloromethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,2-Dibromoethane	ND		1.00	0.50	µg/L	2	04/09/08 16:33
Chlorobenzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Ethylbenzene	ND		1.00	0.20	µg/L	2	04/09/08 16:33
Xylenes (total)	ND		2.00	0.52	µg/L	2	04/09/08 16:33
Styrene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
Bromoform	ND		1.00	1.00	µg/L	2	04/09/08 16:33
Isopropylbenzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,1,2,2-Tetrachloroethane	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,3-Dichlorobenzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,4-Dichlorobenzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,2-Dichlorobenzene	ND		1.00	0.32	µg/L	2	04/09/08 16:33
1,2-Dibromo-3-chloropropane	ND		10.0	5.00	µg/L	2	04/09/08 16:33
1,2,4-Trichlorobenzene	ND		2.00	1.00	µg/L	2	04/09/08 16:33
Surr: 1,2-Dichloroethane-d4	103		75-134	0.20	%REC	2	04/09/08 16:33
Surr: Toluene-d8	105		75-125	0.20	%REC	2	04/09/08 16:33
Surr: 4-Bromofluorobenzene	104		75-125	0.20	%REC	2	04/09/08 16:33

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Print Date: 04/10/08 11:15

349915

Project Supervisor: Monika Santucci

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-10_040408

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0804039

Matrix: (soil/water) WATER

Lab Sample ID: 0804039-003A

Sample wt/vol: 10 (g/mL) ML

Lab File ID: T2037.D

Level: LOW

Date Received: 4/4/08

% Moisture: not dec.

Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 2.00

Extract Volume: _____ (pl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

State Cert No: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy-IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-004A

Client Sample ID: MW-7_040408

Collection Date: 04/04/08 13:05

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2038.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		50.0	12.5	µg/L	50	04/09/08 17:08
Chloromethane	ND		50.0	25.0	µg/L	50	04/09/08 17:08
Vinyl chloride	ND		50.0	25.0	µg/L	50	04/09/08 17:08
Bromomethane	ND		50.0	9.50	µg/L	50	04/09/08 17:08
Chloroethane	ND		50.0	25.0	µg/L	50	04/09/08 17:08
Trichlorofluoromethane	ND		50.0	5.00	µg/L	50	04/09/08 17:08
1,1-Dichloroethene	ND		25.0	12.5	µg/L	50	04/09/08 17:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Acetone	ND	UJ	500	125	µg/L	50	04/09/08 17:08
Carbon disulfide	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Methyl acetate	ND		250	125	µg/L	50	04/09/08 17:08
Methylene chloride	8.00	J	100	8.00	µg/L	50	04/09/08 17:08
trans-1,2-Dichloroethene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Methyl tert-butyl ether	ND	UJ	50.0	25.0	µg/L	50	04/09/08 17:08
1,1-Dichloroethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
cis-1,2-Dichloroethene	609	J	25.0	8.00	µg/L	50	04/09/08 17:08
2-Butanone	ND		500	125	µg/L	50	04/09/08 17:08
Chloroform	ND		25.0	5.00	µg/L	50	04/09/08 17:08
1,1,1-Trichloroethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Cyclohexane	ND		25.0	12.5	µg/L	50	04/09/08 17:08
Carbon tetrachloride	ND		25.0	12.5	µg/L	50	04/09/08 17:08
Benzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,2-Dichloroethane	ND		25.0	12.5	µg/L	50	04/09/08 17:08
Trichloroethene	3130	-2980E J	25.0	5.00	µg/L	50	04/09/08 17:08
Methylcyclohexane	ND		25.0	12.5	µg/L	50	04/09/08 17:08
1,2-Dichloropropane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Bromodichloromethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
cis-1,3-Dichloropropene	ND		25.0	12.5	µg/L	50	04/09/08 17:08
4-Methyl-2-pentanone	ND		250	50.0	µg/L	50	04/09/08 17:08
Toluene	ND		25.0	5.00	µg/L	50	04/09/08 17:08
trans-1,3-Dichloropropene	ND		25.0	12.5	µg/L	50	04/09/08 17:08
1,1,2-Trichloroethane	ND		25.0	12.5	µg/L	50	04/09/08 17:08
Tetrachloroethene	ND		25.0	5.00	µg/L	50	04/09/08 17:08

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0804039-004A
Project: Utica Alloy- IRM	Client Sample ID: MW-7_040408
W Order: 0804039	Collection Date: 04/04/08 13:05
Matrix: WATER	Date Received: 04/04/08 18:30
Inst. ID: MS01 11	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 04/10/08 11:15	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R13228
	FileID: 1-SAMP-T2038.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		250	50.0	µg/L	50	04/09/08 17:08
Dibromochloromethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,2-Dibromoethane	ND		25.0	12.5	µg/L	50	04/09/08 17:08
Chlorobenzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Ethylbenzene	ND		25.0	5.00	µg/L	50	04/09/08 17:08
Xylenes (total)	ND		50.0	13.0	µg/L	50	04/09/08 17:08
Styrene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
Bromoforn	ND		25.0	25.0	µg/L	50	04/09/08 17:08
Isopropylbenzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,1,2,2-Tetrachloroethane	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,3-Dichlorobenzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,4-Dichlorobenzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,2-Dichlorobenzene	ND		25.0	8.00	µg/L	50	04/09/08 17:08
1,2-Dibromo-3-chloropropane	ND		250	125	µg/L	50	04/09/08 17:08
1,2,4-Trichlorobenzene	ND		50.0	25.0	µg/L	50	04/09/08 17:08
Surr: 1,2-Dichloroethane-d4	103		75-134	5.00	%REC	50	04/09/08 17:08
Surr: Toluene-d8	106		75-125	5.00	%REC	50	04/09/08 17:08
Surr: 4-Bromofluorobenzene	106		75-125	5.00	%REC	50	04/09/08 17:08

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-7_040408

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0804039

Matrix: (soil/water) WATER Lab Sample ID: 0804039-004A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T2038.D

Level: LOW Date Received: 4/4/08

% Moisture: not dec. Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 50.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0804039
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 04/10/08 11:35
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0804039-005A
Client Sample ID: MW-11_040408
Collection Date: 04/04/08 14:10
Date Received: 04/04/08 18:30
PrepDate:
BatchNo: R13228
FileID: 1-SAMP-T2039.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		20.0	5.00	µg/L	20	04/09/08 17:43
Chloromethane	ND		20.0	10.0	µg/L	20	04/09/08 17:43
Vinyl chloride	ND		20.0	10.0	µg/L	20	04/09/08 17:43
Bromomethane	ND		20.0	3.80	µg/L	20	04/09/08 17:43
Chloroethane	ND		20.0	10.0	µg/L	20	04/09/08 17:43
Trichlorofluoromethane	ND		20.0	2.00	µg/L	20	04/09/08 17:43
1,1-Dichloroethane	ND		10.0	5.00	µg/L	20	04/09/08 17:43
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	3.20	µg/L	20	04/09/08 17:43
Acetone	ND	UJ	200	50.0	µg/L	20	04/09/08 17:43
Carbon disulfide	ND		10.0	3.20	µg/L	20	04/09/08 17:43
Methyl acetate	ND		100	50.0	µg/L	20	04/09/08 17:43
Methylene chloride	ND		40.0	3.20	µg/L	20	04/09/08 17:43
trans-1,2-Dichloroethene	ND		10.0	3.20	µg/L	20	04/09/08 17:43
Methyl tert-butyl ether	ND		20.0	10.0	µg/L	20	04/09/08 17:43
1,1-Dichloroethane	ND		10.0	3.20	µg/L	20	04/09/08 17:43
cis-1,2-Dichloroethene	27.2		10.0	3.20	µg/L	20	04/09/08 17:43
2-Butanone	ND		200	50.0	µg/L	20	04/09/08 17:43
Chloroform	ND		10.0	2.00	µg/L	20	04/09/08 17:43
1,1,1-Trichloroethane	ND		10.0	3.20	µg/L	20	04/09/08 17:43
Cyclohexane	ND		10.0	5.00	µg/L	20	04/09/08 17:43
Carbon tetrachloride	ND		10.0	5.00	µg/L	20	04/09/08 17:43
Benzene	ND		10.0	3.20	µg/L	20	04/09/08 17:43
1,2-Dichloroethane	ND		10.0	5.00	µg/L	20	04/09/08 17:43
Trichloroethene	220		10.0	2.00	µg/L	20	04/09/08 17:43
Methylcyclohexane	ND		10.0	5.00	µg/L	20	04/09/08 17:43
1,2-Dichloropropane	ND		10.0	3.20	µg/L	20	04/09/08 17:43
Bromodichloromethane	ND		10.0	3.20	µg/L	20	04/09/08 17:43
cis-1,3-Dichloropropene	ND		10.0	5.00	µg/L	20	04/09/08 17:43
4-Methyl-2-pentanone	ND		100	20.0	µg/L	20	04/09/08 17:43
Toluene	ND		10.0	2.00	µg/L	20	04/09/08 17:43
trans-1,3-Dichloropropene	ND		10.0	5.00	µg/L	20	04/09/08 17:43
1,1,2-Trichloroethane	ND		10.0	5.00	µg/L	20	04/09/08 17:43
Tetrachloroethene	ND		10.0	2.00	µg/L	20	04/09/08 17:43

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-005A

Client Sample ID: MW-11_040408

Collection Date: 04/04/08 14:10

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2039.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
					SW8260B		
2-Hexanone	ND	100		20.0	µg/L	20	04/09/08 17:43
Dibromochloromethane	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,2-Dibromoethane	ND	10.0		5.00	µg/L	20	04/09/08 17:43
Chlorobenzene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
Ethylbenzene	ND	10.0		2.00	µg/L	20	04/09/08 17:43
Xylenes (total)	ND	20.0		5.20	µg/L	20	04/09/08 17:43
Styrene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
Bromoform	ND	10.0		10.0	µg/L	20	04/09/08 17:43
Isopropylbenzene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,1,2,2-Tetrachloroethane	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,3-Dichlorobenzene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,4-Dichlorobenzene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,2-Dichlorobenzene	ND	10.0		3.20	µg/L	20	04/09/08 17:43
1,2-Dibromo-3-chloropropane	ND	100		50.0	µg/L	20	04/09/08 17:43
1,2,4-Trichlorobenzene	ND	20.0		10.0	µg/L	20	04/09/08 17:43
Surr: 1,2-Dichloroethane-d4	105	75-134		2.00	%REC	20	04/09/08 17:43
Surr: Toluene-d8	104	75-125		2.00	%REC	20	04/09/08 17:43
Surr: 4-Bromofluorobenzene	104	75-125		2.00	%REC	20	04/09/08 17:43

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-11_040408

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0804039

Matrix: (soil/water)

WATER

Lab Sample ID: 0804039-005A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T2039.D

Level: LOW

Date Received: 4/4/08

% Moisture: not dec.

Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 20.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/14/08 13:03

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-006A

Client Sample ID: FD_040408

Collection Date: 04/04/08 0:00

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13263

FileID: 1-SAMP-T2059.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	04/10/08 16:30
Chloromethane	ND		1.00	0.50	µg/L	1	04/10/08 16:30
Vinyl chloride	ND		1.00	0.50	µg/L	1	04/10/08 16:30
Bromomethane	ND		1.00	0.19	µg/L	1	04/10/08 16:30
Chloroethane	ND		1.00	0.50	µg/L	1	04/10/08 16:30
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	04/10/08 16:30
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	04/10/08 16:30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Acetone	ND	WJ	10.0	2.50	µg/L	1	04/10/08 16:30
Carbon disulfide	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Methyl acetate	ND		5.00	2.50	µg/L	1	04/10/08 16:30
Methylene chloride	ND		2.00	0.16	µg/L	1	04/10/08 16:30
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Methyl tert-butyl ether	ND		1.00	0.50	µg/L	1	04/10/08 16:30
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
2-Butanone	ND		10.0	2.50	µg/L	1	04/10/08 16:30
Chloroform	ND		0.50	0.10	µg/L	1	04/10/08 16:30
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Cyclohexane	ND		0.50	0.25	µg/L	1	04/10/08 16:30
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	04/10/08 16:30
Benzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	04/10/08 16:30
Trichloroethene	ND		0.50	0.10	µg/L	1	04/10/08 16:30
Methylcyclohexane	ND		0.50	0.25	µg/L	1	04/10/08 16:30
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Bromodichloromethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/10/08 16:30
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	04/10/08 16:30
Toluene	ND		0.50	0.10	µg/L	1	04/10/08 16:30
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/10/08 16:30
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	04/10/08 16:30
Tetrachloroethene	ND		0.50	0.10	µg/L	1	04/10/08 16:30

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/14/08 13:03

Col Type:

Lab ID: 0804039-006A

Client Sample ID: FD_040408

Collection Date: 04/04/08 0:00

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13263

FileID: 1-SAMP-T2059.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	04/10/08 16:30
Dibromochloromethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	04/10/08 16:30
Chlorobenzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Ethylbenzene	ND		0.50	0.10	µg/L	1	04/10/08 16:30
Xylenes (total)	ND		1.00	0.26	µg/L	1	04/10/08 16:30
Styrene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
Bromoform	ND		0.50	0.50	µg/L	1	04/10/08 16:30
Isopropylbenzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/10/08 16:30
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	04/10/08 16:30
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	04/10/08 16:30
Surr: 1,2-Dichloroethane-d4	108		75-134	0.10	%REC	1	04/10/08 16:30
Surr: Toluene-d8	102		75-125	0.10	%REC	1	04/10/08 16:30
Surr: 4-Bromofluorobenzene	104		75-125	0.10	%REC	1	04/10/08 16:30

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FD_040408

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0804039

Matrix: (soil/water) WATER Lab Sample ID: 0804039-006A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T2059.D

Level: LOW Date Received: 4/4/08

% Moisture: not dec. Date Analyzed: 4/10/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 1 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000590-50-1	2-Pentanone, 4,4-dimethyl-	15.21	2.56	J



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0804039
Matrix: WATER Q
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 04/10/08 11:15
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0804039-007A
Client Sample ID: TB_040408
Collection Date: 04/04/08 10:50
Date Received: 04/04/08 18:30
PrepDate:
BatchNo: R13228
FileID: 1-SAMP-T2041.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	04/09/08 18:52
Chloromethane	ND		1.00	0.50	µg/L	1	04/09/08 18:52
Vinyl chloride	ND		1.00	0.50	µg/L	1	04/09/08 18:52
Bromomethane	ND		1.00	0.19	µg/L	1	04/09/08 18:52
Chloroethane	ND		1.00	0.50	µg/L	1	04/09/08 18:52
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	04/09/08 18:52
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	04/09/08 18:52
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Acetone	ND	UJ	10.0	2.50	µg/L	1	04/09/08 18:52
Carbon disulfide	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Methyl acetate	ND		5.00	2.50	µg/L	1	04/09/08 18:52
Methylene chloride	0.16	J	2.00	0.16	µg/L	1	04/09/08 18:52
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Methyl tert-butyl ether	ND		1.00	0.50	µg/L	1	04/09/08 18:52
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
2-Butanone	ND		10.0	2.50	µg/L	1	04/09/08 18:52
Chloroform	ND		0.50	0.10	µg/L	1	04/09/08 18:52
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Cyclohexane	ND		0.50	0.25	µg/L	1	04/09/08 18:52
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	04/09/08 18:52
Benzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 18:52
Trichloroethene	ND		0.50	0.10	µg/L	1	04/09/08 18:52
Methylcyclohexane	ND		0.50	0.25	µg/L	1	04/09/08 18:52
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Bromodichloromethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 18:52
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	04/09/08 18:52
Toluene	ND		0.50	0.10	µg/L	1	04/09/08 18:52
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 18:52
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 18:52
Tetrachloroethene	ND		0.50	0.10	µg/L	1	04/09/08 18:52

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rlx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-007A

Client Sample ID: TB_040408

Collection Date: 04/04/08 10:50

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2041.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		5.00	1.00	µg/L	1	04/09/08 18:52
Dibromochloromethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	04/09/08 18:52
Chlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Ethylbenzene	ND		0.50	0.10	µg/L	1	04/09/08 18:52
Xylenes (total)	ND		1.00	0.26	µg/L	1	04/09/08 18:52
Styrene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
Bromoform	ND		0.50	0.50	µg/L	1	04/09/08 18:52
Isopropylbenzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	04/09/08 18:52
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	04/09/08 18:52
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	04/09/08 18:52
Surr: 1,2-Dichloroethane-d4	105		75-134	0.10	%REC	1	04/09/08 18:52
Surr: Toluene-d8	104		75-125	0.10	%REC	1	04/09/08 18:52
Surr: 4-Bromofluorobenzene	103		75-125	0.10	%REC	1	04/09/08 18:52

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

TB_040408

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0804039

Matrix: (soil/water)

WATER

Lab Sample ID: 0804039-007A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T2041.D

Level: LOW

Date Received: 4/4/08

% Moisture: not dec.

Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-008A

Client Sample ID: MW-B3R_040408

Collection Date: 04/04/08 15:00

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: I-SAMP-T2042.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	04/09/08 19:27
Chloromethane	ND		1.00	0.50	µg/L	1	04/09/08 19:27
Vinyl chloride	ND		1.00	0.50	µg/L	1	04/09/08 19:27
Bromomethane	ND		1.00	0.19	µg/L	1	04/09/08 19:27
Chloroethane	ND		1.00	0.50	µg/L	1	04/09/08 19:27
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	04/09/08 19:27
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	04/09/08 19:27
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	04/09/08 19:27
Acetone	ND	US	10.0	2.50	µg/L	1	04/09/08 19:27
Carbon disulfide	ND		0.50	0.16	µg/L	1	04/09/08 19:27
Methyl acetate	ND		5.00	2.50	µg/L	1	04/09/08 19:27
Methylene chloride	ND		2.00	0.16	µg/L	1	04/09/08 19:27
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 19:27
Methyl tert-butyl ether	ND		1.00	0.50	µg/L	1	04/09/08 19:27
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 19:27
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	04/09/08 19:27
2-Butanone	ND		10.0	2.50	µg/L	1	04/09/08 19:27
Chloroform	ND		0.50	0.10	µg/L	1	04/09/08 19:27
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	04/09/08 19:27
Cyclohexane	ND		0.50	0.25	µg/L	1	04/09/08 19:27
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	04/09/08 19:27
Benzene	ND		0.50	0.16	µg/L	1	04/09/08 19:27
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 19:27
Trichloroethene	ND		0.50	0.10	µg/L	1	04/09/08 19:27
Methylcyclohexane	ND		0.50	0.25	µg/L	1	04/09/08 19:27
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	04/09/08 19:27
Bromodichloromethane	ND		0.50	0.16	µg/L	1	04/09/08 19:27
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 19:27
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	04/09/08 19:27
Toluene	ND		0.50	0.10	µg/L	1	04/09/08 19:27
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	04/09/08 19:27
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	04/09/08 19:27
Tetrachloroethene	ND		0.50	0.10	µg/L	1	04/09/08 19:27

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0804039

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 04/10/08 11:15

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0804039-008A

Client Sample ID: MW-B3R_040408

Collection Date: 04/04/08 15:00

Date Received: 04/04/08 18:30

PrepDate:

BatchNo: R13228

FileID: 1-SAMP-T2042.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
							SW8260B
2-Hexanone	ND	5.00	1.00	µg/L	1		04/09/08 19:27
Dibromochloromethane	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,2-Dibromoethane	ND	0.50	0.25	µg/L	1		04/09/08 19:27
Chlorobenzene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
Ethylbenzene	ND	0.50	0.10	µg/L	1		04/09/08 19:27
Xylenes (total)	ND	1.00	0.26	µg/L	1		04/09/08 19:27
Styrene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
Bromoform	ND	0.50	0.50	µg/L	1		04/09/08 19:27
Isopropylbenzene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,3-Dichlorobenzene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,4-Dichlorobenzene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,2-Dichlorobenzene	ND	0.50	0.16	µg/L	1		04/09/08 19:27
1,2-Dibromo-3-chloropropane	ND	5.00	2.50	µg/L	1		04/09/08 19:27
1,2,4-Trichlorobenzene	ND	1.00	0.50	µg/L	1		04/09/08 19:27
Surr: 1,2-Dichloroethane-d4	105	75-134	0.10	%REC	1		04/09/08 19:27
Surr: Toluene-d8	104	75-125	0.10	%REC	1		04/09/08 19:27
Surr: 4-Bromofluorobenzene	106	75-125	0.10	%REC	1		04/09/08 19:27

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-B3R_040408

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0804039

Matrix: (soil/water) WATER Lab Sample ID: 0804039-008A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T2042.D

Level: LOW Date Received: 4/4/08

% Moisture: not dec. Date Analyzed: 4/9/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (pl)

Number TICs found: 1 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000590-50-1	2-Pentanone, 4,4-dimethyl-	15.21	2.07	J



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0808122

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 08/26/08 14:14

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0808122-001A

Client Sample ID: MW-8R-082108

Collection Date: 08/21/08 13:05

Date Received: 08/21/08 14:10

PrepDate:

BatchNo: R14603

FileID: 1-SAMP-T3202.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.25	µg/L	1	08/25/08 17:01	
Chloromethane	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
Vinyl chloride	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
Bromomethane	ND	1.00	0.19	µg/L	1	08/25/08 17:01	
Chloroethane	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
Trichlorofluoromethane	ND	1.00	0.10	µg/L	1	08/25/08 17:01	
1,1-Dichloroethane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Acetone	ND	10.0	2.50	µg/L	1	08/25/08 17:01	
Carbon disulfide	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Methyl acetate	ND	5.00	2.50	µg/L	1	08/25/08 17:01	
Methylene chloride	ND	2.00	0.16	µg/L	1	08/25/08 17:01	
trans-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Methyl tert-butyl ether	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
cis-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
2-Butanone	ND	10.0	2.50	µg/L	1	08/25/08 17:01	
Chloroform	ND	0.50	0.10	µg/L	1	08/25/08 17:01	
1,1,1-Trichloroethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Cyclohexane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
Carbon tetrachloride	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
Benzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,2-Dichloroethane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
Trichloroethene	ND	0.50	0.10	µg/L	1	08/25/08 17:01	
Methylcyclohexane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
1,2-Dichloropropane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Bromodichloromethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
cis-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
4-Methyl-2-pentanone	ND	5.00	1.00	µg/L	1	08/25/08 17:01	
Toluene	ND	0.50	0.10	µg/L	1	08/25/08 17:01	
trans-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
1,1,2-Trichloroethane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
Tetrachloroethene	ND	0.50	0.10	µg/L	1	08/25/08 17:01	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0808122
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 08/26/08 14:14
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0808122-001A
Client Sample ID: MW-8R-082108
Collection Date: 08/21/08 13:05
Date Received: 08/21/08 14:10
PrepDate:
BatchNo: R14603
FileID: 1-SAMP-T3202.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND	5.00	1.00	µg/L	1	08/25/08 17:01	
Dibromochloromethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,2-Dibromoethane	ND	0.50	0.25	µg/L	1	08/25/08 17:01	
Chlorobenzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Ethylbenzene	ND	0.50	0.10	µg/L	1	08/25/08 17:01	
Xylenes (total)	ND	1.00	0.26	µg/L	1	08/25/08 17:01	
Styrene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
Bromoform	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
Isopropylbenzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,3-Dichlorobenzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,4-Dichlorobenzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,2-Dichlorobenzene	ND	0.50	0.16	µg/L	1	08/25/08 17:01	
1,2-Dibromo-3-chloropropane	ND	5.00	2.50	µg/L	1	08/25/08 17:01	
1,2,4-Trichlorobenzene	ND	1.00	0.50	µg/L	1	08/25/08 17:01	
Surr: 1,2-Dichloroethane-d4	107	75-134	0.10	%REC	1	08/25/08 17:01	
Surr: Toluene-d8	102	75-125	0.10	%REC	1	08/25/08 17:01	
Surr: 4-Bromofluorobenzene	81.6	75-125	0.10	%REC	1	08/25/08 17:01	

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 I Analyte detected below the PQL.
 P Prim./Conf. column %D or RPD exceeds limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-8R-082108

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0808122

Matrix: (soil/water) WATER

Lab Sample ID: 0808122-001A

Sample wt/vol: 10 (g/mL) ML

Lab File ID: T3202.D

Level: LOW

Date Received: 8/21/2008

% Moisture: not dec.

Date Analyzed: 8/25/2008

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0808122
Matrix: WATER Q
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 08/26/08 14:14
Col Type:

Lab ID: 0808122-002A
Client Sample ID: Trip Blank
Collection Date: 08/21/08 13:05
Date Received: 08/21/08 14:10
PrepDate:
BatchNo: R14603
FileID: 1-SAMP-T3201.D

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	08/25/08 16:25
Chloromethane	ND		1.00	0.50	µg/L	1	08/25/08 16:25
Vinyl chloride	ND		1.00	0.50	µg/L	1	08/25/08 16:25
Bromomethane	ND		1.00	0.19	µg/L	1	08/25/08 16:25
Chloroethane	ND		1.00	0.50	µg/L	1	08/25/08 16:25
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	08/25/08 16:25
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	08/25/08 16:25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Acetone	ND		10.0	2.50	µg/L	1	08/25/08 16:25
Carbon disulfide	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Methyl acetate	ND		5.00	2.50	µg/L	1	08/25/08 16:25
Methylene chloride	0.26 J		2.00	0.16	µg/L	1	08/25/08 16:25
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Methyl tert-butyl ether	ND		1.00	0.50	µg/L	1	08/25/08 16:25
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
2-Butanone	ND		10.0	2.50	µg/L	1	08/25/08 16:25
Chloroform	ND		0.50	0.10	µg/L	1	08/25/08 16:25
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Cyclohexane	ND		0.50	0.25	µg/L	1	08/25/08 16:25
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	08/25/08 16:25
Benzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	08/25/08 16:25
Trichloroethene	ND		0.50	0.10	µg/L	1	08/25/08 16:25
Methylcyclohexane	ND		0.50	0.25	µg/L	1	08/25/08 16:25
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Bromodichloromethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	08/25/08 16:25
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	08/25/08 16:25
Toluene	ND		0.50	0.10	µg/L	1	08/25/08 16:25
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	08/25/08 16:25
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	08/25/08 16:25
Tetrachloroethene	ND		0.50	0.10	µg/L	1	08/25/08 16:25

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0808122
Matrix: WATER Q
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 08/26/08 14:14
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0808122-002A
Client Sample ID: Trip Blank
Collection Date: 08/21/08 13:05
Date Received: 08/21/08 14:10
PrepDate:
BatchNo: R14603
FileID: 1-SAMP-T3201.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	08/25/08 16:25
Dibromochloromethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	08/25/08 16:25
Chlorobenzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Ethylbenzene	ND		0.50	0.10	µg/L	1	08/25/08 16:25
Xylenes (total)	ND		1.00	0.26	µg/L	1	08/25/08 16:25
Styrene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
Bromoform	ND		1.00	0.50	µg/L	1	08/25/08 16:25
Isopropylbenzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	08/25/08 16:25
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	08/25/08 16:25
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	08/25/08 16:25
Surr: 1,2-Dichloroethane-d4	106		75-134	0.10	%REC	1	08/25/08 16:25
Surr: Toluene-d8	102		75-125	0.10	%REC	1	08/25/08 16:25
Surr: 4-Bromofluorobenzene	81.9		75-125	0.10	%REC	1	08/25/08 16:25

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Trip Blank

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0808122

Matrix: (soil/water)

WATER

Lab Sample ID: 0808122-002A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3201.D

Level: LOW

Date Received: 8/21/2008

% Moisture: not dec.

Date Analyzed: 8/25/2008

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Lab ID: 0810069-001A

Client Sample ID: MW-9_100908

Collection Date: 10/09/08 9:40

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3877.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	10/14/08 17:21
Chloromethane	ND		1.00	0.50	µg/L	1	10/14/08 17:21
Vinyl chloride	ND		1.00	0.50	µg/L	1	10/14/08 17:21
Bromomethane	ND		1.00	0.19	µg/L	1	10/14/08 17:21
Chloroethane	ND		1.00	0.50	µg/L	1	10/14/08 17:21
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	10/14/08 17:21
1,1-Dichloroethene	ND		0.50	0.25	µg/L	1	10/14/08 17:21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21
Acetone	4.03 J		10.0	2.50	µg/L	1	10/14/08 17:21
Carbon disulfide	ND		0.50	0.16	µg/L	1	10/14/08 17:21
Methyl acetate	ND		5.00	2.50	µg/L	1	10/14/08 17:21
Methylene chloride	ND		2.00	0.16	µg/L	1	10/14/08 17:21
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	10/14/08 17:21
Methyl tert-butyl ether	3.06		1.00	0.50	µg/L	1	10/14/08 17:21
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	10/14/08 17:21
2-Butanone	ND		10.0	2.50	µg/L	1	10/14/08 17:21
Chloroform	ND		0.50	0.10	µg/L	1	10/14/08 17:21
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21
Cyclohexane	ND		0.50	0.25	µg/L	1	10/14/08 17:21
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	10/14/08 17:21
Benzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	10/14/08 17:21
Trichloroethene	ND		0.50	0.10	µg/L	1	10/14/08 17:21
Methylcyclohexane	ND		0.50	0.25	µg/L	1	10/14/08 17:21
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	10/14/08 17:21
Bromodichloromethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	10/14/08 17:21
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	10/14/08 17:21
Toluene	ND		0.50	0.10	µg/L	1	10/14/08 17:21
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	10/14/08 17:21
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	10/14/08 17:21
Tetrachloroethene	ND		0.50	0.10	µg/L	1	10/14/08 17:21

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL.
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-001A

Client Sample ID: MW-9_100908

Collection Date: 10/09/08 9:40

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3877.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	10/14/08 17:21	
Dibromochloromethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	10/14/08 17:21	
Chlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
Ethylbenzene	ND		0.50	0.10	µg/L	1	10/14/08 17:21	
Xylenes (total)	ND		1.00	0.26	µg/L	1	10/14/08 17:21	
Styrene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
Bromoform	ND		1.00	0.50	µg/L	1	10/14/08 17:21	
Isopropylbenzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 17:21	
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	10/14/08 17:21	
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	10/14/08 17:21	
Surr: 1,2-Dichloroethane-d4	109		75-134	0.10	%REC	1	10/14/08 17:21	
Surr: Toluene-d8	103		75-125	0.10	%REC	1	10/14/08 17:21	
Surr: 4-Bromofluorobenzene	98.1		75-125	0.10	%REC	1	10/14/08 17:21	

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-9_100908

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0810069

Matrix: (soil/water) WATER Lab Sample ID: 0810069-001A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T3877.D

Level: LOW Date Received: 10/9/08

% Moisture: not dec. Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µL)

Number TICs found: 1 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	3.21	2.05	J



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0810069
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/16/08 11:35
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0810069-002A
Client Sample ID: MW-10_100908
Collection Date: 10/09/08 10:35
Date Received: 10/09/08 16:48
PrepDate:
BatchNo: R15169
FileID: 1-SAMP-T3878.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		5.00	1.25	µg/L	5	10/14/08 17:56
Chloromethane	ND		5.00	2.50	µg/L	5	10/14/08 17:56
Vinyl chloride	101 J		5.00	2.50	µg/L	5	10/14/08 17:56
Bromomethane	ND		5.00	0.95	µg/L	5	10/14/08 17:56
Chloroethane	ND		5.00	2.50	µg/L	5	10/14/08 17:56
Trichlorofluoromethane	ND		5.00	0.50	µg/L	5	10/14/08 17:56
1,1-Dichloroethene	ND		2.50	1.25	µg/L	5	10/14/08 17:56
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Acetone	ND		50.0	12.5	µg/L	5	10/14/08 17:56
Carbon disulfide	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Methyl acetate	ND		25.0	12.5	µg/L	5	10/14/08 17:56
Methylene chloride	ND		10.0	0.80	µg/L	5	10/14/08 17:56
trans-1,2-Dichloroethene	1.90 J		2.50	0.80	µg/L	5	10/14/08 17:56
Methyl tert-butyl ether	ND		5.00	2.50	µg/L	5	10/14/08 17:56
1,1-Dichloroethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
cis-1,2-Dichloroethane	452 E J		2.50	0.80	µg/L	5	10/14/08 17:56
2-Butanone	ND		50.0	12.5	µg/L	5	10/14/08 17:56
Chloroform	ND		2.50	0.50	µg/L	5	10/14/08 17:56
1,1,1-Trichloroethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Cyclohexane	ND		2.50	1.25	µg/L	5	10/14/08 17:56
Carbon tetrachloride	ND		2.50	1.25	µg/L	5	10/14/08 17:56
Benzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,2-Dichloroethane	ND		2.50	1.25	µg/L	5	10/14/08 17:56
Trichloroethene	ND		2.50	0.50	µg/L	5	10/14/08 17:56
Methylcyclohexane	ND		2.50	1.25	µg/L	5	10/14/08 17:56
1,2-Dichloropropane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Bromodichloromethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
cis-1,3-Dichloropropene	ND		2.50	1.25	µg/L	5	10/14/08 17:56
4-Methyl-2-pentanone	ND		25.0	5.00	µg/L	5	10/14/08 17:56
Toluene	ND		2.50	0.50	µg/L	5	10/14/08 17:56
trans-1,3-Dichloropropene	ND		2.50	1.25	µg/L	5	10/14/08 17:56
1,1,2-Trichloroethane	ND		2.50	1.25	µg/L	5	10/14/08 17:56
Tetrachloroethene	ND		2.50	0.50	µg/L	5	10/14/08 17:56

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rbx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-002A

Client Sample ID: MW-10_100908

Collection Date: 10/09/08 10:35

Date Received: 10/09/08 16:48

PrepDate:

BatchNo:

FileID:

R15169

1-SAMP-T3878.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		25.0	5.00	µg/L	5	10/14/08 17:56
Dibromochloromethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,2-Dibromoethane	ND		2.50	1.25	µg/L	5	10/14/08 17:56
Chlorobenzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Ethylbenzene	ND		2.50	0.50	µg/L	5	10/14/08 17:56
Xylenes (total)	ND		5.00	1.30	µg/L	5	10/14/08 17:56
Styrene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
Bromoform	ND		5.00	2.50	µg/L	5	10/14/08 17:56
Isopropylbenzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,1,2,2-Tetrachloroethane	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,3-Dichlorobenzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,4-Dichlorobenzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,2-Dichlorobenzene	ND		2.50	0.80	µg/L	5	10/14/08 17:56
1,2-Dibromo-3-chloropropane	ND		25.0	12.5	µg/L	5	10/14/08 17:56
1,2,4-Trichlorobenzene	ND		5.00	2.50	µg/L	5	10/14/08 17:56
Surr: 1,2-Dichloroethane-d4	108		75-134	0.50	%REC	5	10/14/08 17:56
Surr: Toluene-d8	104		75-125	0.50	%REC	5	10/14/08 17:56
Surr: 4-Bromofluorobenzene	99.1		75-125	0.50	%REC	5	10/14/08 17:56

NOTES:

Vial #3

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
I	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-10_100908

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0810069

Matrix: (soil/water) WATER Lab Sample ID: 0810069-002A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T3878.D

Level: LOW Date Received: 10/9/08

% Moisture: not dec. Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 5.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

State Cert No: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

Column ID: Rbx-VMS

Revision: 10/17/08 9:12

Col Type:

Sample Size: 10 mL

%Moisture:

Test Code: 8260W OLM42

Lab ID: 0810069-003A

Client Sample ID: MW-7_100908

Collection Date: 10/09/08 11:10

Date Received: 10/09/08 16:48

Prep Date:

Batch No:

File ID:

R15188

1-SAMP-T3892.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SWB260B			
Dichlorodifluoromethane	ND	100	25.0	µg/L	100	10/15/08 13:33	
Chloromethane	ND	100	50.0	µg/L	100	10/15/08 13:33	
Vinyl chloride	ND	100	50.0	µg/L	100	10/15/08 13:33	
Bromomethane	ND	100	19.0	µg/L	100	10/15/08 13:33	
Chloroethane	ND	100	50.0	µg/L	100	10/15/08 13:33	
Trichlorofluoromethane	ND	100	10.0	µg/L	100	10/15/08 13:33	
1,1-Dichloroethene	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
Acetone	ND	1000	250	µg/L	100	10/15/08 13:33	
Carbon disulfide	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
Methyl acetate	ND	500	250	µg/L	100	10/15/08 13:33	
Methylene chloride	ND	200	16.0	µg/L	100	10/15/08 13:33	
trans-1,2-Dichloroethene	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
Methyl tert-butyl ether	ND	100	50.0	µg/L	100	10/15/08 13:33	
1,1-Dichloroethane	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
cis-1,2-Dichloroethene	289	50.0	16.0	µg/L	100	10/15/08 13:33	
2-Butanone	ND	1000	250	µg/L	100	10/15/08 13:33	
Chloroform	ND	50.0	10.0	µg/L	100	10/15/08 13:33	
1,1,1-Trichloroethane	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
Cyclohexane	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
Carbon tetrachloride	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
Benzene	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
1,2-Dichloroethane	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
Trichloroethene	2680	50.0	10.0	µg/L	100	10/15/08 13:33	
Methylcyclohexane	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
1,2-Dichloropropane	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
Bromodichloromethane	ND	50.0	16.0	µg/L	100	10/15/08 13:33	
cis-1,3-Dichloropropene	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
4-Methyl-2-pentanone	ND	500	100	µg/L	100	10/15/08 13:33	
Toluene	ND	50.0	10.0	µg/L	100	10/15/08 13:33	
trans-1,3-Dichloropropene	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
1,1,2-Trichloroethane	ND	50.0	25.0	µg/L	100	10/15/08 13:33	
Tetrachloroethene	ND	50.0	10.0	µg/L	100	10/15/08 13:33	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000-Brittonfield-Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0810069
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/17/08 9:12
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0810069-003A
Client Sample ID: MW-7_100908
Collection Date: 10/09/08 11:10
Date Received: 10/09/08 16:48
PrepDate:
BatchNo: R15188
FileID: 1-SAMP-T3892.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		500	100	µg/L	100	10/15/08 13:33
Dibromochloromethane	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,2-Dibromoethane	ND		50.0	25.0	µg/L	100	10/15/08 13:33
Chlorobenzene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
Ethylbenzene	ND		50.0	10.0	µg/L	100	10/15/08 13:33
Xylenes (total)	ND		100	28.0	µg/L	100	10/15/08 13:33
Styrene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
Bromoform	ND		100	50.0	µg/L	100	10/15/08 13:33
Isopropylbenzene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,1,2,2-Tetrachloroethane	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,3-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,4-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,2-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/15/08 13:33
1,2-Dibromo-3-chloropropane	ND		500	250	µg/L	100	10/15/08 13:33
1,2,4-Trichlorobenzene	ND		100	50.0	µg/L	100	10/15/08 13:33
Surr: 1,2-Dichloroethane-d4	106		75-134	10.0	%REC	100	10/15/08 13:33
Surr: Toluene-d8	104		75-125	10.0	%REC	100	10/15/08 13:33
Surr: 4-Bromofluorobenzene	98.7		75-125	10.0	%REC	100	10/15/08 13:33

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-7_100908

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0810069

Matrix: (soil/water)

WATER

Lab Sample ID: 0810069-003A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3892.D

Level: LOW

Date Received: 10/9/08

% Moisture: not dec.

Date Analyzed: 10/15/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 100.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Lab ID: 0810069-004A

Client Sample ID: MW-11_100908

Collection Date: 10/09/08 11:50

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: I-SAMP-T3880.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	10.0	2.50	µg/L	10	10/14/08 19:07	
Chloromethane	ND	10.0	5.00	µg/L	10	10/14/08 19:07	
Vinyl chloride	28.5	10.0	5.00	µg/L	10	10/14/08 19:07	
Bromomethane	ND	10.0	1.90	µg/L	10	10/14/08 19:07	
Chloroethane	ND	10.0	5.00	µg/L	10	10/14/08 19:07	
Trichlorofluoromethane	ND	10.0	1.00	µg/L	10	10/14/08 19:07	
1,1-Dichloroethene	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
Acetone	ND	100	25.0	µg/L	10	10/14/08 19:07	
Carbon disulfide	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
Methyl acetate	ND	50.0	25.0	µg/L	10	10/14/08 19:07	
Methylene chloride	ND	20.0	1.60	µg/L	10	10/14/08 19:07	
trans-1,2-Dichloroethene	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
Methyl tert-butyl ether	ND	10.0	5.00	µg/L	10	10/14/08 19:07	
1,1-Dichloroethane	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
cis-1,2-Dichloroethene	192	5.00	1.60	µg/L	10	10/14/08 19:07	
2-Butanone	ND	100	25.0	µg/L	10	10/14/08 19:07	
Chloroform	ND	5.00	1.00	µg/L	10	10/14/08 19:07	
1,1,1-Trichloroethane	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
Cyclohexane	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
Carbon tetrachloride	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
Benzene	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
1,2-Dichloroethane	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
Trichloroethene	200	5.00	1.00	µg/L	10	10/14/08 19:07	
Methylcyclohexane	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
1,2-Dichloropropane	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
Bromodichloromethane	ND	5.00	1.60	µg/L	10	10/14/08 19:07	
cis-1,3-Dichloropropene	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
4-Methyl-2-pentanone	ND	50.0	10.0	µg/L	10	10/14/08 19:07	
Toluene	ND	5.00	1.00	µg/L	10	10/14/08 19:07	
trans-1,3-Dichloropropene	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
1,1,2-Trichloroethane	ND	5.00	2.50	µg/L	10	10/14/08 19:07	
Tetrachloroethene	ND	5.00	1.00	µg/L	10	10/14/08 19:07	

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0810069
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/16/08 11:35
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0810069-004A
Client Sample ID: MW-11_100908
Collection Date: 10/09/08 11:50
Date Received: 10/09/08 16:48
PrepDate:
BatchNo: R15169
FileID: 1-SAMP-T3880.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		50.0	10.0	µg/L	10	10/14/08 19:07
Dibromochloromethane	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,2-Dibromoethane	ND		5.00	2.50	µg/L	10	10/14/08 19:07
Chlorobenzene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
Ethylbenzene	ND		5.00	1.00	µg/L	10	10/14/08 19:07
Xylenes (total)	ND		10.0	2.60	µg/L	10	10/14/08 19:07
Styrene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
Bromoform	ND		10.0	5.00	µg/L	10	10/14/08 19:07
Isopropylbenzene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,1,2,2-Tetrachloroethane	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,3-Dichlorobenzene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,4-Dichlorobenzene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,2-Dichlorobenzene	ND		5.00	1.60	µg/L	10	10/14/08 19:07
1,2-Dibromo-3-chloropropane	ND		50.0	25.0	µg/L	10	10/14/08 19:07
1,2,4-Trichlorobenzene	ND		10.0	5.00	µg/L	10	10/14/08 19:07
Surr: 1,2-Dichloroethane-d4	113		75-134	1.00	%REC	10	10/14/08 19:07
Surr: Toluene-d8	103		75-125	1.00	%REC	10	10/14/08 19:07
Surr: 4-Bromofluorobenzene	98.6		75-125	1.00	%REC	10	10/14/08 19:07

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-11_100908

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLE

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0810069

Matrix: (soil/water)

WATER

Lab Sample ID: 0810069-004A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3880.D

Level: LOW

Date Received: 10/9/08

% Moisture: not dec.

Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 10.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-005A

Client Sample ID: MW-4_100908

Collection Date: 10/09/08 12:30

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: I-SAMP-T3881.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	100		25.0	µg/L	100	10/14/08 19:42
Chloromethane	ND	100		50.0	µg/L	100	10/14/08 19:42
Vinyl chloride	915	100		50.0	µg/L	100	10/14/08 19:42
Bromomethane	ND	100		19.0	µg/L	100	10/14/08 19:42
Chloroethane	ND	100		50.0	µg/L	100	10/14/08 19:42
Trichlorofluoromethane	ND	100		10.0	µg/L	100	10/14/08 19:42
1,1-Dichloroethene	ND	50.0		25.0	µg/L	100	10/14/08 19:42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50.0		16.0	µg/L	100	10/14/08 19:42
Acetone	ND	1000		250	µg/L	100	10/14/08 19:42
Carbon disulfide	ND	50.0		16.0	µg/L	100	10/14/08 19:42
Methyl acetate	ND	500		250	µg/L	100	10/14/08 19:42
Methylene chloride	ND	200		16.0	µg/L	100	10/14/08 19:42
trans-1,2-Dichloroethene	ND	50.0		16.0	µg/L	100	10/14/08 19:42
Methyl tert-butyl ether	ND	100		50.0	µg/L	100	10/14/08 19:42
1,1-Dichloroethane	ND	50.0		16.0	µg/L	100	10/14/08 19:42
cis-1,2-Dichloroethene	1360	50.0		16.0	µg/L	100	10/14/08 19:42
2-Butanone	ND	1000		250	µg/L	100	10/14/08 19:42
Chloroform	ND	50.0		10.0	µg/L	100	10/14/08 19:42
1,1,1-Trichloroethane	ND	50.0		16.0	µg/L	100	10/14/08 19:42
Cyclohexane	ND	50.0		25.0	µg/L	100	10/14/08 19:42
Carbon tetrachloride	ND	50.0		25.0	µg/L	100	10/14/08 19:42
Benzene	ND	50.0		16.0	µg/L	100	10/14/08 19:42
1,2-Dichloroethane	ND	50.0		25.0	µg/L	100	10/14/08 19:42
Trichloroethene	279	50.0		10.0	µg/L	100	10/14/08 19:42
Methylcyclohexane	ND	50.0		25.0	µg/L	100	10/14/08 19:42
1,2-Dichloropropane	ND	50.0		16.0	µg/L	100	10/14/08 19:42
Bromodichloromethane	ND	50.0		16.0	µg/L	100	10/14/08 19:42
cis-1,3-Dichloropropene	ND	50.0		25.0	µg/L	100	10/14/08 19:42
4-Methyl-2-pentanone	ND	500		100	µg/L	100	10/14/08 19:42
Toluene	ND	50.0		10.0	µg/L	100	10/14/08 19:42
trans-1,3-Dichloropropene	ND	50.0		25.0	µg/L	100	10/14/08 19:42
1,1,2-Trichloroethane	ND	50.0		25.0	µg/L	100	10/14/08 19:42
Tetrachloroethene	ND	50.0		10.0	µg/L	100	10/14/08 19:42

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

State Cert No: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Utica Alloy- IRM
W Order: 0810069
Matrix: WATER
Inst. ID: MS01 11
ColumnID: Rtx-VMS
Revision: 10/16/08 11:35
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0810069-005A
Client Sample ID: MW-4_100908
Collection Date: 10/09/08 12:30
Date Received: 10/09/08 16:48
PrepDate:
BatchNo: R15169
FileID: 1-SAMP-T3881.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		500	100	µg/L	100	10/14/08 19:42
Dibromochloromethane	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,2-Dibromoethane	ND		50.0	25.0	µg/L	100	10/14/08 19:42
Chlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
Ethylbenzene	ND		50.0	10.0	µg/L	100	10/14/08 19:42
Xylenes (total)	ND		100	26.0	µg/L	100	10/14/08 19:42
Styrene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
Bromoform	ND		100	50.0	µg/L	100	10/14/08 19:42
Isopropylbenzene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,1,2,2-Tetrachloroethane	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,3-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,4-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,2-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 19:42
1,2-Dibromo-3-chloropropane	ND		500	250	µg/L	100	10/14/08 19:42
1,2,4-Trichlorobenzene	ND		100	50.0	µg/L	100	10/14/08 19:42
Surr: 1,2-Dichloroethane-d4	111		75-134	10.0	%REC	100	10/14/08 19:42
Surr: Toluene-d8	104		75-125	10.0	%REC	100	10/14/08 19:42
Surr: 4-Bromofluorobenzene	97.5		75-125	10.0	%REC	100	10/14/08 19:42

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-4_100908

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0810069

Matrix: (soil/water)

WATER

Lab Sample ID: 0810069-005A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3881.D

Level: LOW

Date Received: 10/9/08

% Moisture: not dec.

Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 100.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 *(315)437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0810069-006A
Project: Utica Alloy- IRM	Client Sample ID: MW-8_100908
W Order: 0810069	Collection Date: 10/09/08 13:15
Matrix: WATER	Date Received: 10/09/08 16:48
Inst. ID: MS01 11	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 10/16/08 11:35	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R15169
	FileID: 1-SAMP-T3882.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.25	µg/L	1	10/14/08 20:18	
Chloromethane	ND	1.00	0.50	µg/L	1	10/14/08 20:18	
Vinyl chloride	ND	1.00	0.50	µg/L	1	10/14/08 20:18	
Bromomethane	ND	1.00	0.19	µg/L	1	10/14/08 20:18	
Chloroethane	ND	1.00	0.50	µg/L	1	10/14/08 20:18	
Trichlorofluoromethane	ND	1.00	0.10	µg/L	1	10/14/08 20:18	
1,1-Dichloroethene	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
Acetone	ND	10.0	2.50	µg/L	1	10/14/08 20:18	
Carbon disulfide	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
Methyl acetate	ND	5.00	2.50	µg/L	1	10/14/08 20:18	
Methylene chloride	ND	2.00	0.16	µg/L	1	10/14/08 20:18	
trans-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
Methyl tert-butyl ether	ND	1.00	0.50	µg/L	1	10/14/08 20:18	
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
cis-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
2-Butanone	ND	10.0	2.50	µg/L	1	10/14/08 20:18	
Chloroform	ND	0.50	0.10	µg/L	1	10/14/08 20:18	
1,1,1-Trichloroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
Cyclohexane	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
Carbon tetrachloride	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
Benzene	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
1,2-Dichloroethane	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
Trichloroethene	ND	0.50	0.10	µg/L	1	10/14/08 20:18	
Methylcyclohexane	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
1,2-Dichloropropane	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
Bromodichloromethane	ND	0.50	0.16	µg/L	1	10/14/08 20:18	
cis-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
4-Methyl-2-pentanone	ND	5.00	1.00	µg/L	1	10/14/08 20:18	
Toluene	ND	0.50	0.10	µg/L	1	10/14/08 20:18	
trans-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
1,1,2-Trichloroethane	ND	0.50	0.25	µg/L	1	10/14/08 20:18	
Tetrachloroethene	ND	0.50	0.10	µg/L	1	10/14/08 20:18	

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

State Cert No: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-006A

Client Sample ID: MW-8_100908

Collection Date: 10/09/08 13:15

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3882.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	10/14/08 20:18
Dibromochloromethane	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	10/14/08 20:18
Chlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
Ethylbenzene	ND		0.50	0.10	µg/L	1	10/14/08 20:18
Xylenes (total)	ND		1.00	0.26	µg/L	1	10/14/08 20:18
Styrene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
Bromoform	ND		1.00	0.50	µg/L	1	10/14/08 20:18
Isopropylbenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:18
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	10/14/08 20:18
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	10/14/08 20:18
Surr: 1,2-Dichloroethane-d4	110		75-134	0.10	%REC	1	10/14/08 20:18
Surr: Toluene-d8	104		75-125	0.10	%REC	1	10/14/08 20:18
Surr: 4-Bromofluorobenzene	102		75-125	0.10	%REC	1	10/14/08 20:18

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-8_100908

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OBG-MS

SAS No.: _____

SDG No.: 0810069

Matrix: (soil/water)

WATER

Lab Sample ID: 0810069-006A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3882.D

Level: LOW

Date Received: 10/9/08

% Moisture: not dec.

Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-007A

Client Sample ID: MW-B3R_100908

Collection Date: 10/09/08 13:50

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3883.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND	1.00	0.25	µg/L	1	10/14/08 20:53	
Chloromethane	ND	1.00	0.50	µg/L	1	10/14/08 20:53	
Vinyl chloride	ND	1.00	0.50	µg/L	1	10/14/08 20:53	
Bromomethane	ND	1.00	0.19	µg/L	1	10/14/08 20:53	
Chloroethane	ND	1.00	0.50	µg/L	1	10/14/08 20:53	
Trichlorofluoromethane	ND	1.00	0.10	µg/L	1	10/14/08 20:53	
1,1-Dichloroethene	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
1,1,2-Trichloro-1,2-trifluoroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
Acetone	ND	10.0	2.50	µg/L	1	10/14/08 20:53	
Carbon disulfide	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
Methyl acetate	ND	5.00	2.50	µg/L	1	10/14/08 20:53	
Methylene chloride	ND	2.00	0.16	µg/L	1	10/14/08 20:53	
trans-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
Methyl tert-butyl ether	ND	1.00	0.50	µg/L	1	10/14/08 20:53	
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
cis-1,2-Dichloroethene	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
2-Butanone	ND	10.0	2.50	µg/L	1	10/14/08 20:53	
Chloroform	ND	0.50	0.10	µg/L	1	10/14/08 20:53	
1,1,1-Trichloroethane	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
Cyclohexane	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
Carbon tetrachloride	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
Benzene	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
1,2-Dichloroethane	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
Trichloroethene	ND	0.50	0.10	µg/L	1	10/14/08 20:53	
Methylcyclohexane	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
1,2-Dichloropropane	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
Bromodichloromethane	ND	0.50	0.16	µg/L	1	10/14/08 20:53	
cis-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
4-Methyl-2-pentanone	ND	5.00	1.00	µg/L	1	10/14/08 20:53	
Toluene	ND	0.50	0.10	µg/L	1	10/14/08 20:53	
trans-1,3-Dichloropropene	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
1,1,2-Trichloroethane	ND	0.50	0.25	µg/L	1	10/14/08 20:53	
Tetrachloroethene	ND	0.50	0.10	µg/L	1	10/14/08 20:53	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Lab ID: 0810069-007A

Client Sample ID: MW-B3R_100908

Collection Date: 10/09/08 13:50

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3883.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		5.00	1.00	µg/L	1	10/14/08 20:53
Dibromochloromethane	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	10/14/08 20:53
Chlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
Ethylbenzene	ND		0.50	0.10	µg/L	1	10/14/08 20:53
Xylenes (total)	ND		1.00	0.26	µg/L	1	10/14/08 20:53
Styrene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
Bromofom	ND		1.00	0.50	µg/L	1	10/14/08 20:53
Isopropylbenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 20:53
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	10/14/08 20:53
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	10/14/08 20:53
Surr: 1,2-Dichloroethane-d4	111		75-134	0.10	%REC	1	10/14/08 20:53
Surr: Toluene-d8	102		75-125	0.10	%REC	1	10/14/08 20:53
Surr: 4-Bromofluorobenzene	98.6		75-125	0.10	%REC	1	10/14/08 20:53

Qualifiers:		
*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-B3R_100908

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0810069

Matrix: (soil/water) WATER Lab Sample ID: 0810069-007A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T3883.D

Level: LOW Date Received: 10/9/08

% Moisture: not dec. Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Lab ID: 0810069-008A

Project: Utica Alloy- IRM

Client Sample ID: FD_100908

W Order: 0810069

Collection Date: 10/09/08 0:00

Matrix: WATER

Date Received: 10/09/08 16:48

Inst. ID: MS01 11

Sample Size: 10 mL

PrepDate:

ColumnID: Rtx-VMS

%Moisture:

BatchNo: R15169

Revision: 10/16/08 11:35

TestCode: 8260W OLM42

FileID: 1-SAMP-T3884.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		100	25.0	µg/L	100	10/14/08 21:29
Chloromethane	ND		100	50.0	µg/L	100	10/14/08 21:29
Vinyl chloride	ND		100	50.0	µg/L	100	10/14/08 21:29
Bromomethane	ND		100	19.0	µg/L	100	10/14/08 21:29
Chloroethane	ND		100	50.0	µg/L	100	10/14/08 21:29
Trichlorofluoromethane	ND		100	10.0	µg/L	100	10/14/08 21:29
1,1-Dichloroethene	ND		50.0	25.0	µg/L	100	10/14/08 21:29
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Acetone	ND		1000	250	µg/L	100	10/14/08 21:29
Carbon disulfide	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Methyl acetate	ND		500	250	µg/L	100	10/14/08 21:29
Methylene chloride	ND	47.0-JL	200	16.0	µg/L	100	10/14/08 21:29
trans-1,2-Dichloroethene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Methyl tert-butyl ether	ND		100	50.0	µg/L	100	10/14/08 21:29
1,1-Dichloroethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
cis-1,2-Dichloroethene	273		50.0	16.0	µg/L	100	10/14/08 21:29
2-Butanone	ND		1000	250	µg/L	100	10/14/08 21:29
Chloroform	ND		50.0	10.0	µg/L	100	10/14/08 21:29
1,1,1-Trichloroethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Cyclohexane	ND		50.0	25.0	µg/L	100	10/14/08 21:29
Carbon tetrachloride	ND		50.0	25.0	µg/L	100	10/14/08 21:29
Benzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,2-Dichloroethane	ND		50.0	25.0	µg/L	100	10/14/08 21:29
Trichloroethene	2590		50.0	10.0	µg/L	100	10/14/08 21:29
Methylcyclohexane	ND		50.0	25.0	µg/L	100	10/14/08 21:29
1,2-Dichloropropane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Bromodichloromethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
cis-1,3-Dichloropropene	ND		50.0	25.0	µg/L	100	10/14/08 21:29
4-Methyl-2-pentanone	ND		500	100	µg/L	100	10/14/08 21:29
Toluene	ND		50.0	10.0	µg/L	100	10/14/08 21:29
trans-1,3-Dichloropropene	ND		50.0	25.0	µg/L	100	10/14/08 21:29
1,1,2-Trichloroethane	ND		50.0	25.0	µg/L	100	10/14/08 21:29
Tetrachloroethene	ND		50.0	10.0	µg/L	100	10/14/08 21:29

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Lab ID: 0810069-008A

Client Sample ID: FD_100908

Collection Date: 10/09/08 0:00

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3884.D

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		500	100	µg/L	100	10/14/08 21:29
Dibromochloromethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,2-Dibromoethane	ND		50.0	25.0	µg/L	100	10/14/08 21:29
Chlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Ethylbenzene	ND		50.0	10.0	µg/L	100	10/14/08 21:29
Xylenes (total)	ND		100	26.0	µg/L	100	10/14/08 21:29
Styrene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
Bromoform	ND		100	50.0	µg/L	100	10/14/08 21:29
Isopropylbenzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,1,2,2-Tetrachloroethane	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,3-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,4-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,2-Dichlorobenzene	ND		50.0	16.0	µg/L	100	10/14/08 21:29
1,2-Dibromo-3-chloropropane	ND		500	250	µg/L	100	10/14/08 21:29
1,2,4-Trichlorobenzene	ND		100	50.0	µg/L	100	10/14/08 21:29
Surr: 1,2-Dichloroethane-d4	112		75-134	10.0	%REC	100	10/14/08 21:29
Surr: Toluene-d8	103		75-125	10.0	%REC	100	10/14/08 21:29
Surr: 4-Bromofluorobenzene	96.8		75-125	10.0	%REC	100	10/14/08 21:29

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FD_100908

Lab Name: Life Science Laboratories, Inc.

Contract: 10710920EST

Lab Code: LSLB

Case No.: OEG-MS

SAS No.: _____

SDG No.: 0810069

Matrix: (soil/water)

WATER

Lab Sample ID: 0810069-008A

Sample wt/vol: 10

(g/mL) ML

Lab File ID: T3884.D

Level: LOW

Date Received: 10/9/08

% Moisture: not dec.

Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm)

Dilution Factor: 100.00

Extract Volume: _____ (µl)

Number TICs found: 0

CONCENTRATION UNITS:

UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

State Cert No: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER Q

Inst. ID: MS01 11

Column ID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

Test Code: 8260W OLM42

Lab ID: 0810069-009A

Client Sample ID: TB_100908

Collection Date: 10/09/08 9:40

Date Received: 10/09/08 16:48

Prep Date:

Batch No:

File ID:

R15169

1-SAMP-T3885.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.25	µg/L	1	10/14/08 22:04
Chloromethane	0.56 J		1.00	0.50	µg/L	1	10/14/08 22:04
Vinyl chloride	ND		1.00	0.50	µg/L	1	10/14/08 22:04
Bromomethane	ND		1.00	0.19	µg/L	1	10/14/08 22:04
Chloroethane	ND		1.00	0.50	µg/L	1	10/14/08 22:04
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	10/14/08 22:04
1,1-Dichloroethane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Acetone	ND		10.0	2.50	µg/L	1	10/14/08 22:04
Carbon disulfide	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Methyl acetate	ND		5.00	2.50	µg/L	1	10/14/08 22:04
Methylene chloride	0.19 J		2.00	0.16	µg/L	1	10/14/08 22:04
trans-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Methyl tert-butyl ether	ND		1.00	0.50	µg/L	1	10/14/08 22:04
1,1-Dichloroethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
cis-1,2-Dichloroethene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
2-Butanone	ND		10.0	2.50	µg/L	1	10/14/08 22:04
Chloroform	ND		0.50	0.10	µg/L	1	10/14/08 22:04
1,1,1-Trichloroethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Cyclohexane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
Carbon tetrachloride	ND		0.50	0.25	µg/L	1	10/14/08 22:04
Benzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,2-Dichloroethane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
Trichloroethene	ND		0.50	0.10	µg/L	1	10/14/08 22:04
Methylcyclohexane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Bromodichloromethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
cis-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	10/14/08 22:04
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	10/14/08 22:04
Toluene	ND		0.50	0.10	µg/L	1	10/14/08 22:04
trans-1,3-Dichloropropene	ND		0.50	0.25	µg/L	1	10/14/08 22:04
1,1,2-Trichloroethane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
Tetrachloroethene	ND		0.50	0.10	µg/L	1	10/14/08 22:04

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value exceeds the instrument calibration range
 J Analyte detected below the PQL
 P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Practical Quantitation Limit (PQL)
 S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

5000 Brittonfield-Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Utica Alloy- IRM

W Order: 0810069

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 10/16/08 11:35

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0810069-009A

Client Sample ID: TB_100908

Collection Date: 10/09/08 9:40

Date Received: 10/09/08 16:48

PrepDate:

BatchNo: R15169

FileID: 1-SAMP-T3885.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	1.00	µg/L	1	10/14/08 22:04
Dibromochloromethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,2-Dibromoethane	ND		0.50	0.25	µg/L	1	10/14/08 22:04
Chlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Ethylbenzene	ND		0.50	0.10	µg/L	1	10/14/08 22:04
Xylenes (total)	ND		1.00	0.26	µg/L	1	10/14/08 22:04
Styrene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
Bromoform	ND		1.00	0.50	µg/L	1	10/14/08 22:04
Isopropylbenzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,1,2,2-Tetrachloroethane	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,3-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,2-Dichlorobenzene	ND		0.50	0.16	µg/L	1	10/14/08 22:04
1,2-Dibromo-3-chloropropane	ND		5.00	2.50	µg/L	1	10/14/08 22:04
1,2,4-Trichlorobenzene	ND		1.00	0.50	µg/L	1	10/14/08 22:04
Surr: 1,2-Dichloroethane-d4	112		75-134	0.10	%REC	1	10/14/08 22:04
Surr: Toluene-d8	104		75-125	0.10	%REC	1	10/14/08 22:04
Surr: 4-Bromofluorobenzene	98.9		75-125	0.10	%REC	1	10/14/08 22:04

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits

Form 1 TIC
 Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB_100908

Lab Name: Life Science Laboratories, Inc. Contract: 10710920EST

Lab Code: LSLB Case No.: OBG-MS SAS No.: _____ SDG No.: 0810069

Matrix: (soil/water) WATER Lab Sample ID: 0810069-009A

Sample wt/vol: 10 (g/mL) ML Lab File ID: T3885.D

Level: LOW Date Received: 10/9/08

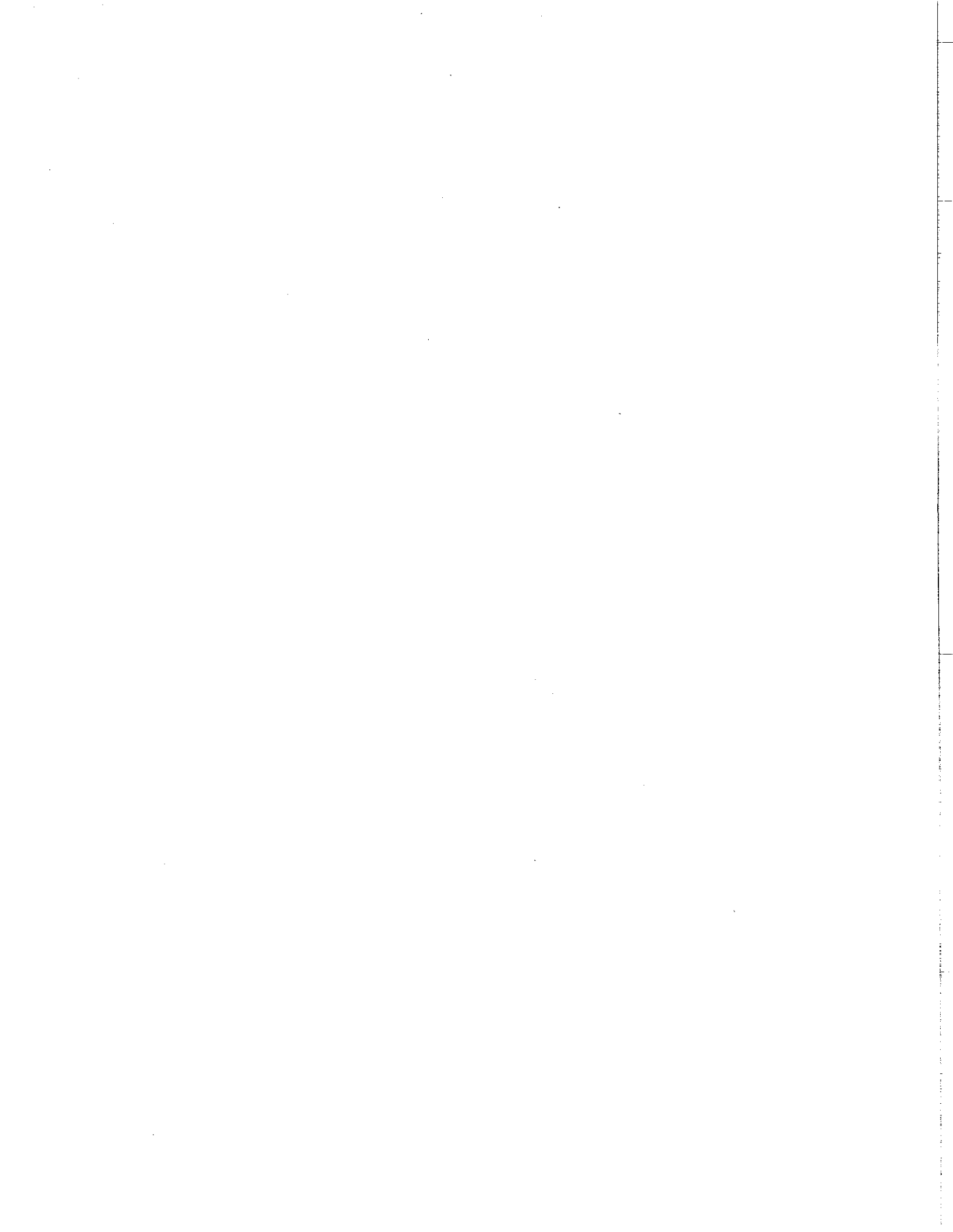
% Moisture: not dec. Date Analyzed: 10/14/08

GC Column: Rtx-VMS ID: 0.18 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



Appendix G
2009 Groundwater
Sampling Results



February 2, 2010

Salvatore Priore, P.E.
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: ELG Utica Alloys
Utica, NY
Site #633047

File: 13053/45554

Dear Mr. Priore:

As follow up to our letter dated November 11, 2009 and conversations with you and Greg Rys of NYSDOH, enclosed are summary tables of groundwater analyses collected from monitoring wells at the ELG Utica Alloys Facility. The most recent set of samples was collected from wells MW-4, MW-7, MW-9, MW-6, MW-8R, MW-10, and MW-11 between December 15 and 17, 2009. The locations of the wells are shown on the attached figure. The samples were collected using low flow methods and analyzed for volatile organic compounds (VOCs) and natural attenuation parameters as outlined in the November 11, 2009 letter. Table 1 summarizes the VOCs that were detected in these samples as well as those previously collected. The results of the natural attenuation parameter analyses from both the field and laboratory are summarized on Table 2.

As outlined in the November 11, 2009 letter, we intend to use this information in developing the Focused Feasibility Study for the site. Should you have any questions pertaining to this information or the project in general, please do not hesitate to contact me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Deborah Y. Wright, CPG
Sr. Managing Hydrogeologist

Cc: Greg Rys – NYSDOH
Fred Schweizer – ELG Utica Alloys
Andy Patz - EHS

Table 1
ELG Utica Alloys, Inc.
Ground Water Sampling Results

		Downgradient From Source											
Location ID	Sample Date	MW-B3R	MW-B3R	MW-B3R	MW-B3R	MW-6	MW-8R	MW-8R	MW-8R	MW-9	MW-9	MW-9	MW-9
Sample Type	Action Level ¹	12/19/2007	4/4/2008	4/4/2008	10/9/2008	12/17/2009	8/21/2008	10/9/2008	12/17/2009	12/19/2007	4/4/2008	10/9/2008	12/16/2009
Parameter Name		N	N	FD	N	N	N	N	N	N	N	N	N
1,1-Dichloroethylene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	50	10 U	10 UJ	10 UJ	10 U	NA	10 U	10 U	NA	10 U	10 UJ	4.03 J	NA
Carbon disulfide	60	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	NA
cis-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.56	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	NC	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA	0.12 NJ	0.44 J	0.5 U	NA
Dichloromethane (methylene chloride)	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl Tert-Butyl Ether (MTBE)	8	0.5 U	1 U	1 U	1 U	0.5 U	1 U	1 U	0.5 U	5.89	8.03	3.06	2.77
Methylcyclohexane	NC	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	NA	0.5 U	0.39 J	0.5 U	NA
Toluene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1.34	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total CVOCs	NC	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND

		Near TCE Source Area																					
Location ID	Sample Date	MW-4	MW-4	MW-4	MW-4	MW-4	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-10	MW-10	MW-10	MW-10	MW-10	MW-3	MW-11	MW-11	MW-11	MW-11
Sample Type	Action Level ¹	12/8/1999	12/19/2007	4/4/2008	10/9/2008	12/16/2009	9/30/1999	12/19/2007	4/4/2008	10/9/2008	10/9/2008	12/15/2009	12/19/2007	12/19/2007	4/4/2008	10/9/2008	12/15/2009	12/8/1999	12/19/2007	4/4/2008	10/9/2008	12/16/2009	
Parameter Name		N	N	N	N	N	N	N	N	N	N	FD	N	FD	N	N	N	N	N	N	N	N	N
1,1-Dichloroethylene	5	30 J	50 U	50 U	50 U	50 U	U	25 U	25 U	50 U	50 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	1 U	U	10 U	10 U	5 U	5 U
Acetone	50	150 JB	1000 U	1000 UJ	1000 U	NA	210 JB	500 U	500 UJ	1000 U	1000 U	NA	50 U	20 U	20 UJ	50 U	NA	690 JB	200 U	200 UJ	100 U	NA	
Carbon disulfide	60	U	50 U	50 U	50 U	NA	15 J	25 U	25 U	50 U	50 U	NA	2.5 U	1 U	1 U	2.5 U	NA	U	10 U	10 U	5 U	NA	
cis-1,2-Dichloroethene	5	4100	2310	2040	1360	1100	460	95	609	289	273	99	40.5	37.4	42.7	353 J	73.9	8500	479	27.2	192	169	
Cyclohexane	NC	NA	50 U	50 U	50 U	NA	NA	25 U	25 U	50 U	50 U	NA	2.5 U	1 U	1 U	2.5 U	NA	NA	10 U	10 U	5 U	NA	
Dichloromethane (methylene chloride)	5	U	200 U	200 U	200 U	200 U	36 J	100 U	8 J	17 U	17 U	200 U	10 U	4 U	4 U	10 U	4 U	94 J	40 U	40 U	20 U	20 U	
Methyl Tert-Butyl Ether (MTBE)	8	NA	50 U	100 U	100 U	50 U	NA	25 U	50 U	100 U	100 U	50 U	2.5 U	1 U	2 U	5 U	1 U	NA	10 U	20 U	10 U	5 U	
Methylcyclohexane	NC	NA	50 U	50 U	50 U	NA	NA	25 U	25 U	50 U	50 U	NA	2.5 U	1 U	1 U	2.5 U	NA	NA	10 U	10 U	5 U	NA	
Toluene	5	U	50 U	50 U	50 U	50 U	5 J	25 U	25 U	50 U	50 U	50 U	2.5 U	1 U	1 U	2.5 U	1 U	U	10 U	10 U	5 U	5 U	
trans-1,2-Dichloroethene	5	17 J	50 U	50 U	50 U	50 U	U	25 U	25 U	50 U	50 U	50 U	2.5 U	1 U	1 U	1.9 J	1 U	U	10 U	10 U	5 U	5 U	
Trichloroethylene	5	8000	953	702	279	325	6700	1480	3130 J	2680	2590	1570	3.5	2.1	0.66 J	2.5 U	1 U	27000	282	220	200	159	
Vinyl chloride	2	140 J	138 J	463	915	206	U	50 U	50 U	100 U	100 U	100 U	37.4	39.1	24.5	101 J	43.7	390 J	188	20 U	28.5	28.2	
Total CVOCs	NC	12287	3401	3205	2554	1631	7196	1575	3747	2969	2863	1669	81.4	78.6	67.86	455.9	117.6	35984	949	247.2	420.5	356.2	

Notes:

Units are in ug/L (micrograms per liter)

NJ- tentative in identification and estimated in value.

U - Compound analyzed but not detected above the method detection limit.

J - Estimate value

B - Analyte detected in the associated method blank

NA - Not Applicable

1999 data results from Stearns & Wheeler Remedial Investigation (1999) for purposes of comparing to current data.

¹ Class GA Groundwater Criteria as identified in New York State Ambient Water Quality Standards and Guidance Values, Table 1, Division of Water Technical and Operational Guidance Series 1.1.1 (June 1998)

bold Concentration is greater than the action level.

Sample Type N - Normal

Sample Type FD - Field Duplicate

Total CVOCs = 1,1-Dichloroethylene, cis-1,2-Dichloroethene, Dichloromethane (methylene chloride), trans-1,2-Dichloroethene, Trichloroethylene, and Vinyl chloride.

Table 2
Natural Attenuation Parameters
ELG Utica Alloys, Inc.

Analyte	MW-6	MW-8R	MW-11	MW-4	MW-9	MW-7	MW-10
Sulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethane	0.0022	<0.00057	0.001	<0.00057	0.002	<0.00057	0.017
Ethene	<0.00054	<0.00054	<0.00053	0.0025	<0.00054	<0.00054	0.0014
Methane	0.13	0.013	0.031	0.0039	1.4	<0.00061	0.094
Chloride	410	23	2.7	20	180	3.1	31
TOC	23	9	3.5	7	12	2.1	9.5
Alkalinity	620	360	230	210	390	170	360
Sulfate	59	35	25	260	0.15	100	8.5
Nitrate	<0.1	<0.1	<0.1	0.37	0.15	2.2	<0.1
Nitrite	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Field Parameters							
Ferrous Iron (dissolved)	0.2	0.4	0	0	3.2	0	6.2
Total Iron (dissolved)	>5	>5	1.2	1.2	>5	0.4	>5
Manganese (dissolved)	1.9	1.1	0	0.3	0	0	0.2
pH	6.74	6.45	6.78	6.76	6.87	7.23	6.88
Dissolved Oxygen	0	0.4	0.2	7.8	0	4.9	0
Oxygen Reduction Potential	-186.6	-122	35.8	-23.6	-162.3	193.4	-128.9

Notes: All results in mg/L

Appendix H
Sub-slab Indoor Air Report



July 21, 2008

Salvatore Priore, P.E.
New York State Department
of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: Sub-slab and Indoor Air Sampling
Results
Utica Alloys, Utica New York

File: 13053/40931

Dear Mr. Priore:

The following presents the results of the sub-slab and indoor air sampling activities conducted at the Utica Alloys, Utica Facility. The sampling activities were conducted in accordance with the Work Plan dated March 19, 2008 as approved by NYSDEC. The purpose of the indoor air and sub-slab vapor sampling program was to assess the potential for intrusion of vapors from the soil and ground water on the western side of the building into the indoor air. As outlined in the Work Plan, the sampling activities were focussed on the office area of the building as there is potential for TCE and other solvents to be associated with the material handled in the production areas.

Sample collection procedures

Two sets of sub-slab and indoor air samples were collected from the office area of the facility as shown on Figure 1. The sub-slab sample is designated as SS and the indoor air sample is designated as IA. Samples SS-1 and IA-1 were collected from the grinding room located off the main office area. Samples SS-2 and IA-2 were collected from the locker room located on the west side of the office area. An ambient air sample, AA-1, was also collected from an area located upwind of the office area of the building.

Samples were collected into individually-certified clean, pre-evacuated, 6-liter Summa® canisters using the procedures identified in the Work Plan. The sample draw times were approximately 8-hours as shown on the sampling logs included as Attachment 1.

An inventory of the materials stored in the building was also completed during the sampling activities. A copy of the inventory is provided as Attachment 2.

Samples were delivered to Air Toxics in California for analysis using method TO-15 as outlined in the Work Plan. Data forms for the samples are provided as Attachment 3. As indicated in the Work Plan, these data will not be validated.

Results

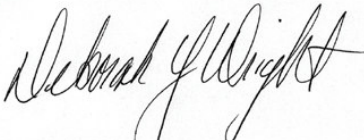
Table 1 summarizes the constituents detected in one or more of the samples. Also included on this table for reference are Indoor Air Background Levels. These data are from a USEPA survey of indoor air concentrations measured commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the USEPA 2001 BASE Database, as reported in the NYSDOH vapor intrusion guidance¹. In addition, actions as identified in matrices included in the NYSDOH vapor intrusion guidance are identified.

Based on the data collected in March 2008 and the NYSDOH vapor intrusion guidance document, the sub-slab and indoor air concentrations identified for trichloroethene (TCE) and cis-1,2-dichloroethene (cDCE) are at concentrations where mitigation is recommended. The indoor air concentrations observed are also higher than the indoor air background levels found in commercial and public buildings. However, the indoor air concentrations are well below the OSHA permissible exposure limits (PELs) of 540,000 $\mu\text{g}/\text{m}^3$ for TCE and 790,000 $\mu\text{g}/\text{m}^3$ for cDCE. Given that Utica Alloys used TCE for degreasing up until 2002 and metal scrap and tool cuttings that can contain chlorinated solvents may currently be accepted for processing, Utica Alloys will review their OSHA documentation and establish an OSHA compliant program for these two chemicals. Under an OSHA program, the OSHA PELs are appropriate criteria for use as indoor air compliance levels. Based on the data collected to date, a vapor intrusion mitigation system would not be necessary to meet the OSHA limits.

Should you have any questions pertaining to this information or the project in general, please do not hesitate to contact me at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Deborah Y. Wright, CPG
Sr. Managing Hydrogeologist

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cc: Gregory Rys – NYSDOH
Bret Copple – Utica Alloys

¹ Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, NYS Department of Health, October 2006.

Table 1
Summary of Vapor Intrusion Sampling Results
Utica Alloys (NYSDEC Site # 6-33-047)
Utica, New York

Compound	Indoor Air Background Levels ^a	Sample Location:			Grinding Room			Locker Room			
		Sample Type:	Ambient Upwind	Sub-Slab	Indoor Air	NYSDOH Matrix ^b	AF (α)	Sub-Slab	Indoor Air	NYSDOH Matrix ^b	AF (α)
		Sample I.D.:	032508-AA-1	032508-SS-1	032508-IA-1			032508-SS-2	032508-IA-2		
		Sample Date:	3/25/08	3/25/08	3/25/08			3/25/08	3/25/08		
Trichloroethene (TCE)	4.2	<0.19	32000	220	Mitigate	0.007	540	100	Mitigate	0.19	
cis-1,2-Dichloroethene	<1.9	<0.71	5000	110	Mitigate	0.022	430	52	Mitigate	0.12	
Tetrachloroethene (PCE)	15.9	<1.2	<230	<2.3	UTD	NA	14	<1.4	NFA	>0.10	
Acetone	98.9	10	<320	160	NA	<0.5	88	120	NA	1.4	
Bromomethane	<1.7	<0.70	<130	1.4	NA	<0.01	<2.3	<0.82	NA	NA	
Chloroform	1.2	<0.87	<160	<1.6	NA	NA	3.6	4.6	NA	1.3	
Chloroethane	<1.1	<0.47	<89	<0.89	NA	NA	<1.6	0.61	NA	<0.4	
Chloromethane	3.7	0.71	<280	1.4	NA	<0.005	<1.2	<0.43	NA	NA	
1,2-Dichloroethane	<0.9	<0.72	<140	<1.4	NA	NA	3.7	<0.85	NA	>0.2	
Dichlorodifluoromethane	16.5	1.9	<170	2.9	NA	<0.02	<3.0	2.9	NA	<1.0	
Trichlorofluoromethane	18	1.0	<190	<1.90	NA	NA	<3.4	<1.2	NA	NA	
Ethanol	210	24	<250	3700 E	NA	<15	13 B	8900 E	NA	685	
n-Heptane	NA	<0.73	<140	5.1	NA	<0.04	<2.4	4.3	NA	<1.8	
Methylene Chloride	10	<1.2	<120	5.8	NA	<0.05	<4.1	3.2	NA	<0.8	
Methyl Ethyl Ketone	NA	3.4	<99	16	NA	<0.2	15	4.8	NA	0.3	
2-Propanol	NA	<2.2	<330	41	NA	<0.1	<7.3	90	NA	<12	
n-Hexane	10.2	<0.63	<120	5.2	NA	<0.04	<2.1	4.5	NA	<2	
Cyclohexane	NA	<0.62	<120	2.1	NA	<0.02	<2.0	1.8	NA	<0.9	
1,1,1-Trichloroethane	20.6	<0.98	<180	<1.8	NFA	NA	4.9	<1.1	NFA	>0.2	
1,2,4-Trimethylbenzene	9.5	<0.88	<160	1.8	NA	<0.01	<2.9	1.4	NA	<0.5	
1,4-Dichlorobenzene	5.5	<1.1	<200	14	NA	<0.1	<3.6	27	NA	<8	
Benzene	9.4	0.68	<110	3.6	NA	<0.03	1.9	2.7	NA	1.4	
Toluene	43	0.91	<130	6.6	NA	<0.1	<2.2	5.3	NA	<2	
o-Xylene	7.9	<0.78	<140	1.5	NA	<0.01	<2.6	1.5	NA	<0.6	
m&p-Xylenes	22.2	<0.78	<140	4.2	NA	<0.03	<2.6	5.0	NA	<2	

Note: Results are reported in units of micrograms per cubic meter (ug/m³).

^a Indoor air concentrations measured commercial and public buildings that do not have vapor intrusion. The values are the 90th percentile values taken from the EPA 2001 BASE Database, as reported in the NYSDOH vapor intrusion guidance (October 2006).

^b NYSDOH vapor intrusion guidance (Oct 2006) recommends actions based on the combination of sub-slab and corresponding indoor air concentrations (available for TCE, 111-TCA, cis-1,2-Dichloroethylene, 1,1-dichloroethene, Carbon Tetrachloride, vinyl chloride, and PCE only).

<## - Compound not detected above the reporting limit (##).

NA - Not available

E - Results reported as estimated values from the laboratory because compound was detected outside the analytical calibration range needed to achieve the lower reporting limits for all other compounds in that same sample.

Monitor - Monitoring is recommended by NYSDOH to assess changes in sub-slab and indoor air concentrations and/or building conditions.

Mitigate - Mitigation is recommended by NYSDOH to minimize current or potential exposures associated with vapor intrusion.

NFA - No further action as recommended by NYSDOH guidance.

NTA - Unable to determine.

FIGURE 1



LEGEND

SAMPLE TYPE

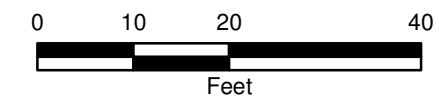
- AMBIENT AIR SAMPLE
- INDOOR AIR SAMPLE
- SUB SLAB AIR SAMPLE
- MONITORING WELL
- APPROXIMATE LIMITS OF EXCAVATION

BASEMAP

- PROPERTY LINE
 - WALL
 - FENCE
 - RAILROAD
 - ROAD
 - UTICA ALLOYS
 - OTHER STRUCTURES
 - CONCRETE
- NOTE: UNITS IN UG/KG

UTICA ALLOYS
INTERIM REMEDIAL MEASURES
UTICA, NEW YORK

AIR SAMPLE LOCATIONS



JULY 2008
13053.40931



ATTACHMENT 1

Sampling Logs



Multiple Vapor Intrusion Sampling Form

Project # 13053/40931 Date 3/25/08
 Project Name UTICA Alloy Collector EA/BL
 Structure Location _____ Sample Locations GRINDING ROOM
 PID/FID meter ID 250-10060
 Sample Duration (Intended) 8hr

Indoor Air Sample	Sub-structure Sample	Circle Sample Type: <u>Indoor Air</u> SS-DUP <u>Ambient</u> IA-DUP
Sample ID <u>032508-IA-1</u>	Sample ID <u>032508-SS-1</u>	Sample ID <u>032508-AA-1</u>
Canister ID <u>5612</u>	Canister ID <u>39345</u>	Canister ID <u>34387</u>
Flow Controller ID <u>915</u>	Flow Controller ID <u>NONE</u>	Flow Controller ID <u>00024</u>
Date/Time start <u>3/25/08 0756</u>	Date/Time start <u>3/25/08 0756</u>	Date/Time start <u>3/25/08 0755</u>
Date/Time end <u>1556</u>	Date/Time end <u>1556</u>	Date/Time end <u>3/25/08 1555</u>
Gauge prior to start <u>2</u>	Gauge prior to start <u>1</u>	Gauge prior to start <u>0</u>
Start vacuum <u>-29.7</u>	Start vacuum <u>-29.7</u>	Start vacuum <u>-29.7</u>
End vacuum <u>-6.4</u>	End vacuum <u>-6.5</u>	End vacuum <u>-7.6</u>
Complete all that apply: Air temperature (°F) <u>~68°</u> PID/FID reading <u>~758 ppb</u> in. tubing used <u>-</u> Tubing purged? <u>-</u>	Complete all that apply: Air temperature (°F) <u>~68°</u> PID/FID reading <u>~758 ppb in Air</u> in. tubing used <u>~42"</u> Tubing purged? <u>YES</u>	Complete all that apply: Air temperature (°F) <u>~32</u> PID/FID reading <u>0 ppb</u> in. tubing used <u>-</u> Tubing purged? <u>-</u>
For indoor location: Noticeable odor <u>No</u> Intake height above floor (in) <u>~36"</u> Floor surface type <u>CONCRETE</u> Room <u>GRINDING ROOM</u> Story/level <u>1ST</u>	For indoor location: Noticeable odor <u>No</u> Floor slab depth <u>8"</u> Intake depth below floor (in) <u>~1"</u> Floor surface type <u>CONCRETE</u> Room <u>GRINDING</u> Story/level <u>1ST</u>	For outdoor location: Noticeable odor <u>No</u> Distance to road (ft) <u>~150'</u> Direction to closest building (degrees) _____ Distance to closest building (ft) <u>~15'</u> Intake height above ground level (in) <u>~6'</u>

Building Survey and Chemical Inventory Form Completed? _____
 Photographs Taken? _____

Comments: ^{THE POTENTIAL FOR} DUE TO HEAVY VEHICLE TRAFFIC IN LOT & SINCE A SECURE LOCATION FOR THE AMBIENT CAN COULD NOT BE IDENTIFIED, THE CAN WAS PLACED IN A LOCATION UPWIND OF THE BUILDING THAT WAS SECURE AT A LEVEL OF 6' ABOVE GROUND

Analytical method required _____
 Laboratory used _____



Multiple Vapor Intrusion Sampling Form

Project # 13053/40931
Project Name UTCA Alloy

Date 3/25/08
Collector EA/BG

Structure Location _____

Sample Locations

Locker Room

PID/FID meter ID 250-100960

Sample Duration (Intended) 8 hr

Indoor Air Sample		Sub-structure Sample		Circle Sample Type: <u>Indoor Air</u>							
Sample ID	Canister ID	Flow Controller ID	Date/Time start	Date/Time end	Gauge prior to start	Start vacuum	End vacuum	SS-DUP	Ambient	IA-DUP	
<u>032508-IA-2</u>	<u>9920</u>	<u>None</u>	<u>3/25/08 757</u>	<u>3/25/08 1557</u>	<u>0</u>	<u>-29.8</u>	<u>-6.4</u>				
<u>032508-SS-2</u>	<u>9920 5746</u>	<u>None</u>	<u>3/25/08 757</u>	<u>1557</u>	<u>0</u>	<u>-29.7</u>	<u>-8.1</u>				
Complete all that apply:			Air temperature (°F) <u>~67°</u>			Complete all that apply:			Air temperature (°F) _____		
PID/FID reading <u>~720 ppb</u>			PID/FID reading <u>~720 ppb in Air</u>			PID/FID reading _____			PID/FID reading _____		
in. tubing used <u>---</u>			in. tubing used <u>~42"</u>			in. tubing used _____			in. tubing used _____		
Tubing purged? <u>---</u>			Tubing purged? <u>YES</u>			Tubing purged? _____			Tubing purged? _____		
For indoor location:			For indoor location:			For outdoor location:			For outdoor location:		
Noticeable odor <u>No</u>			Noticeable odor <u>No</u>			Noticeable odor _____			Noticeable odor _____		
Intake height above floor (in) <u>~36"</u>			Floor slab depth <u>~8"</u>			Distance to road (ft) _____			Distance to road (ft) _____		
Floor surface type <u>Concrete</u>			Intake depth below floor (in) <u>~1"</u>			Direction to closest building (degrees) _____			Direction to closest building (degrees) _____		
Room <u>Locker Room</u>			Floor surface type <u>Concrete</u>			Distance to closest building (ft) _____			Distance to closest building (ft) _____		
Story/level <u>1ST</u>			Room <u>Locker Room</u>			Intake height above ground level (in) _____			Intake height above ground level (in) _____		
Story/level _____			Story/level <u>1ST</u>			Story/level _____			Story/level _____		

Building Survey and Chemical Inventory Form Completed? _____

Photographs Taken? _____

Comments: _____

Analytical method required _____

Laboratory used _____

ATTACHMENT 2

Material Inventory



O'BRIEN & GERE

**Indoor Air Quality
Building Survey**

Date _____
Collector _____
Affiliation _____

Access Contact Bred Copple
Phone _____
Best time to contact _____

Address UTICA ALLOYS
WURZ + LELAND RD
UTICA, NY

Owner Renter Other

Access Agreement Signed _____

Date built 1940's
Yrs. of residence _____
No. of occupants _____

Building type:
Residential School Industrial
Commercial Church Other _____

Check all that apply:

Ranch Raised Ranch 2-Family Apartments
Cape Colonial Duplex Condominium
3-Family Mobile Home Other (specify) INDUSTRIAL

Above grade building construction

Wood frame Poured concrete Stone
Brick Concrete block Other _____

Foundation construction

Fieldstone Solid top concrete block Slab on grade
Poured concrete Open top concrete block Other _____

Is the owner aware of any additions made to the original design of the structure? (please specify)

MULTIPLE ADDITIONS, HOWEVER CANNOT CONFIRM

Utilities

Sewer: Public Private _____ Other _____
Water: Public Private _____ Other _____
Spring Well
Hot water heater type: Gas Oil Electric Other _____

Heating, ventilation, and air conditioning systems

Primary heat type:

Hot air office + production
Hot water _____
Steam radiator _____
Electric _____
Solar _____
Other _____

Fuel type (heat):

Natural gas _____
Fuel oil _____
Electric _____
Wood _____
Other _____

Secondary heat type:

Kerosene _____
Wood stove _____
Electric _____
Propane _____
Other _____

Ventilation types:

Attic fan _____
Kitchen hood _____
Bathroom fan _____
Other SOLVENT HOODS PRESENT IN LAB AREA

Ceiling fan _____
Air filtration _____
Induced fireplace _____
Other _____

Air conditioning:

Window units _____
Furnace unit
Electric _____
Other _____

Basement type

None Full Half Slab on grade Vented crawlspace Unvented crawlspace Other _____

If slab on grade, is there a garage with occupied space above? _____

Basement depth below grade (feet)

Front NONE Rear NONE Side 1 NONE Side 2 NONE

Basement characteristics

General:

No. of rooms Bathroom Basement use _____

Floor:

Earth Concrete Tile Carpet Other _____

Walls:

Finished Unfinished Painted Sheetrock Other _____

Paneling Tile Insulated Uninsulated

Check if present:

Fireplace Sump pump Floor drains Interior walls

Elevator Ash cleanout Water damage Jacuzzi/hot tub

French drain Floor cracks Wall cracks Other _____

Does the basement have a moisture problem? No

Does the basement ever flood? (specify frequency) No

Does the basement have a radon system installed? No

Has there been recent purchases of furnishings (carpets, rugs, linoleum, tile, or furniture) or remodeling (new construction, roofing, or floor stripping)? (please specify) NONE RECENTLY

Chemical usage, exposure and storage

Identify occupant hobbies:

Painting Stained glass Jewelry making

Electronics Woodworking Furniture refinishing

Model making Auto repair Other _____

Where in the structure are these hobbies conducted? _____

Does the occupants' job require chemical exposure? _____

If so, where are the occupants clothes cleaned? _____

Has the structure been fumigated in the last year? No

If so, is fumigation regularly performed? (how often) _____

Are pesticides frequently applied to lawn or garden? No

If so, are they stored on the property? _____

Identify chemicals stored in the basement/1st floor living space, or garage if structure is slab on grade (include fuels, solvents, cleaners, etc.) Use separate inventory sheet for each area surveyed

Brand	Product	Amount stored
MUTOL	CITRA-SCRUB Wireless Hand cleaner	1 GAL 2100 PPB - Locker Room
CMS	APPLAUSE INDUSTRIAL HAND CLEANER	~ 1/2 GAL 650 PPB - Locker Room
MISC OIL CANS	LUBRICANT	~ 25 oz 490 ppb - GRINDING ROOM
QUICK MONT	SELF-SETTING RESIN	30 oz 505 ppb - GRINDING ROOM
EMD	ACETONE (UNOPENED)	2 L 1000 ppb - GRINDING ROOM
MAVAL	MYSTERY OIL (UNOPENED)	(2) 32 oz 620 ppb - GRINDING ROOM
3M HIGH STRENGTH 90	SPRAY ADHESIVE [DIETHYL ETHER ACETONE]	16 oz 600 ppb - GRINDING ROOM
FISHER	HCL	1 GAL 630 ppb - GRINDING ROOM
WD 40	LUBRICANT	11 oz 800 ppb - GRINDING ROOM
CORAL INDUSTRIAL SUPPLY	SEVEN BUTYL CLEANER (CORROSIVE)	32 GAL 780 ppb - GRINDING ROOM
ORANGE POWER	CITRUS NON-BUTYL DEGREASER <small>SODIUM METASILICATE CAS# 9016-45-9 4-02-08</small>	Approx 16 L 525 ppb - cleaning Products
WEPAK	MICRO BOWL + PORCELAIN CLEANER	Approx 16 L 530 ppb - cleaning Products
DUTCH BOY	ACRYLIC LAMINATE ENAMEL	1 GAL 568 ppb - cleaning Products
FARABOND	SOLVENT FREE ACRYLIC COX BASE ADHESIVE	1 qt 570 ppb - cleaning Products
SHERWIN WILLIAMS	ACRYLIC PRIMER	1 GAL 550 ppb - cleaning Products
CMS	BULLS EYE BLUE	4 GAL 525 ppb - cleaning Products
Taylor <i>Handwritten initials</i>	HEAVY DUTY FLOOR WAX	4 GAL 525 ppb - cleaning Products
RAID	FLYING INSECT	18 oz 530 ppb - cleaning Products
RUST OLEUM	Hammers	2 18 oz 530 ppb - cleaning Products
PLEDGE	NATURAL BEAUTY	2 18 oz 525 ppb - cleaning Products
TECHTONE NPB-06	DEGREASER	Many 55 GAL DRUMS - Production Area, BOTTOM ROOM

Comments

Is there any other information about the structural features of this building, the habits of its occupants or potential sources for chemical contaminants to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

REMOVED TCE CONTAINING PRODUCTS ~ 2008²¹⁰³. PRODUCTS USED TODAY DO NOT CONTAIN TCE

WET PART OF LAB NOT IN USE.

CLEANING ACTIVITIES TAKING PLACE IN OFFICE AREA DURING SAMPLING AROUND 1000AM

OCCASIONAL GRINDING ACTIVITIES TAKING PLACE IN GRINDING ROOM (~5 MIN ea ~2X AN HOUR)

~90% OF FLOOR COVERED WITH TILE. FLOOR CONDITION DIFFICULT TO DETERMINE

INVOLVED IN SCRAP PROCESSING - REPROCESS + CLEAN

ATTACHMENT 3

Analytical Data Forms



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-SS-2

Lab ID#: 0803605A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y040612	Date of Collection:	3/25/08
Dil. Factor:	5.97	Date of Analysis:	4/7/08 12:46 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.60	Not Detected	3.0	Not Detected
Freon 114	0.60	Not Detected	4.2	Not Detected
Chloromethane	0.60	Not Detected	1.2	Not Detected
Vinyl Chloride	0.60	Not Detected	1.5	Not Detected
1,3-Butadiene	0.60	Not Detected	1.3	Not Detected
Bromomethane	0.60	Not Detected	2.3	Not Detected
Chloroethane	0.60	Not Detected	1.6	Not Detected
Freon 11	0.60	Not Detected	3.4	Not Detected
Ethanol	3.0	6.9 B	5.6	13 B
Freon 113	0.60	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.60	Not Detected	2.4	Not Detected
Acetone	3.0	37	7.1	88
2-Propanol	3.0	Not Detected	7.3	Not Detected
Carbon Disulfide	3.0	Not Detected	9.3	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
Methyl tert-butyl ether	0.60	Not Detected	2.2	Not Detected
trans-1,2-Dichloroethene	0.60	Not Detected	2.4	Not Detected
Hexane	0.60	Not Detected	2.1	Not Detected
1,1-Dichloroethane	0.60	0.92	2.4	3.7
2-Butanone (Methyl Ethyl Ketone)	0.60	5.2	1.8	15
cis-1,2-Dichloroethene	0.60	110	2.4	430
Tetrahydrofuran	3.0	Not Detected	8.8	Not Detected
Chloroform	0.60	0.75	2.9	3.6
1,1,1-Trichloroethane	0.60	0.89	3.2	4.9
Cyclohexane	0.60	Not Detected	2.0	Not Detected
Carbon Tetrachloride	0.60	Not Detected	3.8	Not Detected
Benzene	0.60	0.61	1.9	1.9
1,2-Dichloroethane	0.60	Not Detected	2.4	Not Detected
Heptane	0.60	Not Detected	2.4	Not Detected
Trichloroethene	0.60	100	3.2	540
1,2-Dichloropropane	0.60	Not Detected	2.8	Not Detected
1,4-Dioxane	0.60	Not Detected	2.2	Not Detected
Bromodichloromethane	0.60	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.60	Not Detected	2.7	Not Detected
4-Methyl-2-pentanone	0.60	Not Detected	2.4	Not Detected
Toluene	0.60	Not Detected	2.2	Not Detected
trans-1,3-Dichloropropene	0.60	Not Detected	2.7	Not Detected
1,1,2-Trichloroethane	0.60	Not Detected	3.2	Not Detected
Tetrachloroethene	0.60	2.1	4.0	14



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-SS-2

Lab ID#: 0803605A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	y040612	Date of Collection	3/25/08
Dil-Factor	5.97	Date of Analysis	4/7/08 12:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.60	Not Detected	5.1	Not Detected
1,2-Dibromoethane (EDB)	0.60	Not Detected	4.6	Not Detected
Chlorobenzene	0.60	Not Detected	2.7	Not Detected
Ethyl Benzene	0.60	Not Detected	2.6	Not Detected
m,p-Xylene	0.60	Not Detected	2.6	Not Detected
o-Xylene	0.60	Not Detected	2.6	Not Detected
Styrene	0.60	Not Detected	2.5	Not Detected
Bromoform	0.60	Not Detected	6.2	Not Detected
Cumene	0.60	Not Detected	2.9	Not Detected
1,1,2,2-Tetrachloroethane	0.60	Not Detected	4.1	Not Detected
Propylbenzene	0.60	Not Detected	2.9	Not Detected
4-Ethyltoluene	0.60	Not Detected	2.9	Not Detected
1,3,5-Trimethylbenzene	0.60	Not Detected	2.9	Not Detected
1,2,4-Trimethylbenzene	0.60	Not Detected	2.9	Not Detected
1,3-Dichlorobenzene	0.60	Not Detected	3.6	Not Detected
1,4-Dichlorobenzene	0.60	Not Detected	3.6	Not Detected
alpha-Chlorotoluene	0.60	Not Detected	3.1	Not Detected
1,2-Dichlorobenzene	0.60	Not Detected	3.6	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-SS-1

Lab ID#: 0803605B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	7040709	Date of Collection	3/26/08
Dil. Factor	67.2	Date of Analysis	4/7/08 02:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	34	Not Detected	170	Not Detected
Freon 114	34	Not Detected	230	Not Detected
Chloromethane	130	Not Detected	280	Not Detected
Vinyl Chloride	34	Not Detected	86	Not Detected
1,3-Butadiene	34	Not Detected	74	Not Detected
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	34	Not Detected	89	Not Detected
Freon 11	34	Not Detected	190	Not Detected
Ethanol	130	Not Detected	250	Not Detected
Freon 113	34	Not Detected	260	Not Detected
1,1-Dichloroethene	34	Not Detected	130	Not Detected
Acetone	130	Not Detected	320	Not Detected
2-Propanol	130	Not Detected	330	Not Detected
Carbon Disulfide	34	Not Detected	100	Not Detected
3-Chloropropene	130	Not Detected	420	Not Detected
Methylene Chloride	34	Not Detected	120	Not Detected
Methyl tert-butyl ether	34	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	34	Not Detected	130	Not Detected
Hexane	34	Not Detected	120	Not Detected
1,1-Dichloroethane	34	Not Detected	140	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34	Not Detected	99	Not Detected
cis-1,2-Dichloroethene	34	1200	130	5000
Tetrahydrofuran	34	Not Detected	99	Not Detected
Chloroform	34	Not Detected	160	Not Detected
1,1,1-Trichloroethane	34	Not Detected	180	Not Detected
Cyclohexane	34	Not Detected	120	Not Detected
Carbon Tetrachloride	34	Not Detected	210	Not Detected
2,2,4-Trimethylpentane	34	Not Detected	160	Not Detected
Benzene	34	Not Detected	110	Not Detected
1,2-Dichloroethane	34	Not Detected	140	Not Detected
Heptane	34	Not Detected	140	Not Detected
Trichloroethene	34	6100	180	32000
1,2-Dichloropropane	34	Not Detected	160	Not Detected
1,4-Dioxane	130	Not Detected	480	Not Detected
Bromodichloromethane	34	Not Detected	220	Not Detected
cis-1,3-Dichloropropene	34	Not Detected	150	Not Detected
4-Methyl-2-pentanone	34	Not Detected	140	Not Detected
Toluene	34	Not Detected	130	Not Detected
trans-1,3-Dichloropropene	34	Not Detected	150	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-SS-1

Lab ID#: 0803605B-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7040709	Date of Collection:	3/25/08
Dil. Factor:	67.2	Date of Analysis:	4/7/08 02:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	34	Not Detected	180	Not Detected
Tetrachloroethene	34	Not Detected	230	Not Detected
2-Hexanone	130	Not Detected	550	Not Detected
Dibromochloromethane	34	Not Detected	290	Not Detected
1,2-Dibromoethane (EDB)	34	Not Detected	260	Not Detected
Chlorobenzene	34	Not Detected	150	Not Detected
Ethyl Benzene	34	Not Detected	140	Not Detected
m,p-Xylene	34	Not Detected	140	Not Detected
o-Xylene	34	Not Detected	140	Not Detected
Styrene	34	Not Detected	140	Not Detected
Bromoform	34	Not Detected	350	Not Detected
Cumene	34	Not Detected	160	Not Detected
1,1,1,2-Tetrachloroethane	34	Not Detected	230	Not Detected
Propylbenzene	34	Not Detected	160	Not Detected
4-Ethyltoluene	34	Not Detected	160	Not Detected
1,3,5-Trimethylbenzene	34	Not Detected	160	Not Detected
1,2,4-Trimethylbenzene	34	Not Detected	160	Not Detected
1,3-Dichlorobenzene	34	Not Detected	200	Not Detected
1,4-Dichlorobenzene	34	Not Detected	200	Not Detected
alpha-Chlorotoluene	34	Not Detected	170	Not Detected
1,2-Dichlorobenzene	34	Not Detected	200	Not Detected
1,2,4-Trichlorobenzene	130	Not Detected	1000	Not Detected
Hexachlorobutadiene	130	Not Detected	1400	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	108	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-LA-1

Lab ID#: 0803606-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name	g040811	Date of Collection	3/25/08
Dil. Factor	3.36	Date of Analysis	4/8/08 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.34	0.59	1.7	2.9
Freon 114	0.34	Not Detected	2.3	Not Detected
Chloromethane	0.34	0.69	0.69	1.4
Vinyl Chloride	0.34	Not Detected	0.86	Not Detected
1,3-Butadiene	0.34	Not Detected	0.74	Not Detected
Bromomethane	0.34	0.35	1.3	1.4
Chloroethane	0.34	Not Detected	0.89	Not Detected
Freon 11	0.34	Not Detected	1.9	Not Detected
Ethanol	1.7	2000 E	3.2	3700 E
Freon 113	0.34	Not Detected	2.6	Not Detected
1,1-Dichloroethene	0.34	Not Detected	1.3	Not Detected
Acetone	1.7	67	4.0	160
2-Propanol	1.7	16	4.1	41
Carbon Disulfide	1.7	Not Detected	5.2	Not Detected
Methylene Chloride	0.67	1.7	2.3	5.8
Methyl tert-butyl ether	0.34	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.34	Not Detected	1.3	Not Detected
Hexane	0.34	1.5	1.2	5.2
1,1-Dichloroethane	0.34	Not Detected	1.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.34	5.5	0.99	16
cis-1,2-Dichloroethene	0.34	27	1.3	110
Tetrahydrofuran	1.7	Not Detected	5.0	Not Detected
Chloroform	0.34	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.34	Not Detected	1.8	Not Detected
Cyclohexane	0.34	0.60	1.2	2.1
Carbon Tetrachloride	0.34	Not Detected	2.1	Not Detected
Benzene	0.34	1.1	1.1	3.6
1,2-Dichloroethane	0.34	Not Detected	1.4	Not Detected
Heptane	0.34	1.2	1.4	5.1
1,2-Dichloropropane	0.34	Not Detected	1.6	Not Detected
1,4-Dioxane	0.34	Not Detected	1.2	Not Detected
Bromodichloromethane	0.34	Not Detected	2.2	Not Detected
cis-1,3-Dichloropropene	0.34	Not Detected	1.5	Not Detected
4-Methyl-2-pentanone	0.34	Not Detected	1.4	Not Detected
Toluene	0.34	1.7	1.3	6.6
trans-1,3-Dichloropropene	0.34	Not Detected	1.5	Not Detected
1,1,2-Trichloroethane	0.34	Not Detected	1.8	Not Detected
Tetrachloroethene	0.34	Not Detected	2.3	Not Detected
2-Hexanone	1.7	Not Detected	6.9	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-IA-1

Lab ID#: 0803606-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040811	Date of Collection:	3/26/08
DIL Factor:	3.36	Date of Analysis:	4/8/08 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.34	Not Detected	2.9	Not Detected
1,2-Dibromoethane (EDB)	0.34	Not Detected	2.6	Not Detected
Chlorobenzene	0.34	Not Detected	1.5	Not Detected
Ethyl Benzene	0.34	Not Detected	1.4	Not Detected
m,p-Xylene	0.34	0.97	1.4	4.2
o-Xylene	0.34	0.35	1.4	1.5
Styrene	0.34	Not Detected	1.4	Not Detected
Bromoform	0.34	Not Detected	3.5	Not Detected
Cumene	0.34	Not Detected	1.6	Not Detected
1,1,2,2-Tetrachloroethane	0.34	Not Detected	2.3	Not Detected
Propylbenzene	0.34	Not Detected	1.6	Not Detected
4-Ethyltoluene	0.34	Not Detected	1.6	Not Detected
1,3,5-Trimethylbenzene	0.34	Not Detected	1.6	Not Detected
1,2,4-Trimethylbenzene	0.34	0.36	1.6	1.8
1,3-Dichlorobenzene	0.34	Not Detected	2.0	Not Detected
1,4-Dichlorobenzene	0.34	2.3	2.0	14
alpha-Chlorotoluene	0.34	Not Detected	1.7	Not Detected
1,2-Dichlorobenzene	0.34	Not Detected	2.0	Not Detected
1,2,4-Trichlorobenzene	1.7	Not Detected	12	Not Detected
Hexachlorobutadiene	1.7	Not Detected	18	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-LA-1

Lab ID#: 0803606-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040811.sim	Date of Collection:	3/25/08
Dil. Factor:	3.36	Date of Analysis:	4/8/08 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.067	40	0.36	220

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-AA-1

Lab ID#: 0803606-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040812	Date of Collection:	3/25/08
Dil. Factor:	1.79	Date of Analysis:	4/8/08 05:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.18	0.39	0.88	1.9
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.18	0.34	0.37	0.71
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.18	Not Detected	0.70	Not Detected
Chloroethane	0.18	Not Detected	0.47	Not Detected
Freon 11	0.18	0.18	1.0	1.0
Ethanol	0.90	13	1.7	24
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	4.4	2.1	10
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.18	1.2	0.53	3.4
cis-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.87	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
Benzene	0.18	0.21	0.57	0.68
1,2-Dichloroethane	0.18	Not Detected	0.72	Not Detected
Heptane	0.18	Not Detected	0.73	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
Toluene	0.18	0.24	0.67	0.91
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-AA-1

Lab ID#: 0803606-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name	g040812	Date of Collection	3/25/08
Dil. Factor	1.78	Date of Analysis	4/8/08 05:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	Not Detected	0.78	Not Detected
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-AA-1

Lab ID#: 0803606-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULLSCAN

File Name:	g040812sim	Date of Collection:	3/25/08
Dil. Factor:	1.79	Date of Analysis:	4/8/08 05:31:PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.036	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-IA-2

Lab ID#: 0803606-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040815	Date of Collection:	3/25/08
Dil. Factor:	2.10	Date of Analysis:	4/8/08 07:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.21	0.58	1.0	2.9
Freon 114	0.21	Not Detected	1.5	Not Detected
Chloromethane	0.21	Not Detected	0.43	Not Detected
Vinyl Chloride	0.21	Not Detected	0.54	Not Detected
1,3-Butadiene	0.21	Not Detected	0.46	Not Detected
Bromomethane	0.21	Not Detected	0.82	Not Detected
Chloroethane	0.21	0.23	0.55	0.61
Freon 11	0.21	Not Detected	1.2	Not Detected
Ethanol	1.0	4700 E	2.0	8900 E
Freon 113	0.21	Not Detected	1.6	Not Detected
1,1-Dichloroethene	0.21	Not Detected	0.83	Not Detected
Acetone	1.0	50	2.5	120
2-Propanol	1.0	37	2.6	90
Carbon Disulfide	1.0	Not Detected	3.3	Not Detected
Methylene Chloride	0.42	0.92	1.4	3.2
Methyl tert-butyl ether	0.21	Not Detected	0.76	Not Detected
trans-1,2-Dichloroethene	0.21	Not Detected	0.83	Not Detected
Hexane	0.21	1.3	0.74	4.5
1,1-Dichloroethane	0.21	Not Detected	0.85	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.21	1.6	0.62	4.8
cis-1,2-Dichloroethene	0.21	13	0.83	52
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Chloroform	0.21	0.94	1.0	4.6
1,1,1-Trichloroethane	0.21	Not Detected	1.1	Not Detected
Cyclohexane	0.21	0.53	0.72	1.8
Carbon Tetrachloride	0.21	Not Detected	1.3	Not Detected
Benzene	0.21	0.86	0.67	2.7
1,2-Dichloroethane	0.21	Not Detected	0.85	Not Detected
Heptane	0.21	1.0	0.86	4.3
1,2-Dichloropropane	0.21	Not Detected	0.97	Not Detected
1,4-Dioxane	0.21	Not Detected	0.76	Not Detected
Bromodichloromethane	0.21	Not Detected	1.4	Not Detected
cis-1,3-Dichloropropene	0.21	Not Detected	0.95	Not Detected
4-Methyl-2-pentanone	0.21	Not Detected	0.86	Not Detected
Toluene	0.21	1.4	0.79	5.3
trans-1,3-Dichloropropene	0.21	Not Detected	0.95	Not Detected
1,1,2-Trichloroethane	0.21	Not Detected	1.1	Not Detected
Tetrachloroethene	0.21	Not Detected	1.4	Not Detected
2-Hexanone	1.0	Not Detected	4.3	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-IA-2

Lab ID#: 0803606-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040815	Date of Collection:	3/25/08
Dil. Factor:	2.10	Date of Analysis:	4/8/08 07:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.21	Not Detected	1.8	Not Detected
1,2-Dibromoethane (EDB)	0.21	Not Detected	1.6	Not Detected
Chlorobenzene	0.21	Not Detected	0.97	Not Detected
Ethyl Benzene	0.21	0.34	0.91	1.5
m,p-Xylene	0.21	1.1	0.91	5.0
o-Xylene	0.21	0.36	0.91	1.5
Styrene	0.21	Not Detected	0.89	Not Detected
Bromoform	0.21	Not Detected	2.2	Not Detected
Cumene	0.21	Not Detected	1.0	Not Detected
1,1,2,2-Tetrachloroethane	0.21	Not Detected	1.4	Not Detected
Propylbenzene	0.21	Not Detected	1.0	Not Detected
4-Ethyltoluene	0.21	0.25	1.0	1.2
1,3,5-Trimethylbenzene	0.21	Not Detected	1.0	Not Detected
1,2,4-Trimethylbenzene	0.21	0.29	1.0	1.4
1,3-Dichlorobenzene	0.21	Not Detected	1.3	Not Detected
1,4-Dichlorobenzene	0.21	4.5	1.3	27
alpha-Chlorotoluene	0.21	Not Detected	1.1	Not Detected
1,2-Dichlorobenzene	0.21	Not Detected	1.3	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected	7.8	Not Detected
Hexachlorobutadiene	1.0	Not Detected	11	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 032508-1A-2

Lab ID#: 0803606-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	g040815sim	Date of Collection:	3/25/08
Dil. Factor:	2.10	Date of Analysis:	4/8/08 07:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.042	19	0.22	100

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager DEB WRIGHT
 Collected by: (Print and Sign) ERIC ALONZI
 Company D'BRIEN + GORE Email _____
 Address 500 BRADFORDFIELD PKWY City E. SYRACUSE State NY Zip 13057
 Phone (315) 437-6100 Fax (315) 463-7554

Project Info: P.O. # _____ Project # <u>40931/003.371</u> Project Name <u>VILLA ALLOY</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	<small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01AB</u>	<u>032508-IA-1</u>	<u>5612</u>	<u>3/25/08</u>	<u>1556</u>	<u>TO-15 HI/LO w/ TCE @ SIM</u>	<u>-29.7</u>	<u>-6.4</u>		
<u>02AB</u>	<u>032508-AA-1</u>	<u>34387</u>	<u>3/25/08</u>	<u>1555</u>	<u>TO-15 HI/LO w/ TCE @ SIM</u>	<u>-29.7</u>	<u>-7.6</u>		
<u>03AB</u>	<u>032508-IA-2</u>	<u>9920</u>	<u>3/25/08</u>	<u>1557</u>	<u>TO-15 HI/LO w/ TCE @ SIM</u>	<u>-29.8</u>	<u>-6.4</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/26/08 900</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/27/08 950</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>Fedex</u>		<u>m</u>	<u>Good</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	<u>0803606</u>



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Project Manager DEB NIGHT
 Collected by: (Print and Sign) ERIC ALONSO
 Company O'BRIEN - GORE Email _____
 Address 500 BRANTFORD RD City E. SYRACUSE State NY Zip 13057
 Phone (315) 437-6100 Fax (315) 463-7554

Project Info: P.O. # _____ Project # <u>40331/003-371</u> Project Name <u>VICKI ALLEN</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only Pressurized by: Date: Pressurization Gas: N ₂ He
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01AB</u>	<u>032508-IA-1</u>	<u>5612</u>	<u>3/25/08</u>	<u>1556</u>	<u>70-15 HI/LO w/ TCE @ SIM</u>	<u>-29.7</u>	<u>-6.4</u>		
<u>02AB</u>	<u>032508-AA-1</u>	<u>34387</u>	<u>3/25/08</u>	<u>1555</u>	<u>70-15 HI/LO w/ TCE @ SIM</u>	<u>-29.7</u>	<u>-7.6</u>		
<u>03AB</u>	<u>032508-IA-2</u>	<u>9920</u>	<u>3/25/08</u>	<u>1557</u>	<u>70-15 HI/LO w/ TCE @ SIM</u>	<u>-29.8</u>	<u>-6.4</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/26/08 900</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/22/08 950</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name: <u>FIDEX</u>	Air Bill #: _____	Temp (°C): <u>22</u>	Condition: <u>Good</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order #: <u>0803606</u>
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(916) 985-1000 FAX (916) 985-1020

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Project Manager DEB WRIGHT
 Collected by: (Print and Sign) ERIC ALVIST
 Company O'BRIEN + GERE Email _____
 Address 500 BIRMINGHAM BLVD CRY E. SUITE 200 State NY Zip 13657
 Phone (315) 437-6100 Fax (315) 437-7534

Project Info:		Turn Around Time:	
P.O. # _____	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Day Use Only	
Project # <u>40931/103.371</u>		Preshrinked by: _____	
Project Name <u>Utica Alloy</u>	Date: _____	Pressurization Gas: _____	
		Yes	No

mf
3-16-08

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>01A</u>	<u>032508-SS-1</u>	<u>39345</u>	<u>3/25/08</u>	<u>1556</u>	<u>TO-15 Low LEVEL</u>	<u>-29.7</u>	<u>-6.5</u>		
<u>01A</u>	<u>032508-SS-2</u>	<u>5746</u>	<u>3/25/08</u>	<u>1557</u>	<u>TO-15 Low LEVEL</u>	<u>-29.7</u>	<u>-8.1</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>7/25/08 9:00</u>	Received by: (signature) <u>Monica Groden</u> Date/Time <u>3/27/08 9:00</u>	Notes: _____
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>FedEx</u>	Av. Bill # _____	Temp (°C) <u>NA</u>	Condition <u>Good</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	Work Order # <u>0803605</u>
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mf
06/08

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(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager DEB WRIGHT
 Collected by: (Print and Sign) ERIC ALONZI
 Company O'BRIEN + GERE Email _____
 Address 500 BRITAINFIELD PKWY City E. SYRACUSE State NY Zip 13067
 Phone (315) 437-6100 Fax (315) 463-7534

Project Info: P.O. # _____ Project # <u>40931/003-371</u> Project Name <u>Unica Alley</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Lab Use Only: Pressurized by: _____ Date: _____ Pressurization Gas: <u>N₂</u> He _____
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Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psid)
<u>01A</u>	<u>032508-SS-1</u>	<u>39345</u>	<u>3/25/08</u>	<u>1556</u>	<u>TO-15 Low LEVEL</u>	<u>-29.7</u>	<u>-6.5</u>		
<u>02A</u>	<u>032508-SS-2</u>	<u>5746</u>	<u>3/25/08</u>	<u>1557</u>	<u>TO-15 Low LEVEL</u>	<u>-29.7</u>	<u>-8.1</u>		

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/25/08 9:00</u>	Received by: (signature) <u>Monica Brown</u> Date/Time <u>ATL 3/27/08 9:00</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only:	Shipper Name: <u>FedEx</u>	Air Bill #:	Temp (°C): <u>NA</u>	Condition: <u>Good</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> None	Work Order #: <u>0803605</u>
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[Signature]
3/27/08