

14  
 January 19, 1999

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Mr. Jim Lister  
 Federal Projects Section  
 New York State Department of Environmental Conservation  
 50 Wolf Road  
 Albany, NY 12233

**Reference: Additional Investigations at Two Areas of Concern at  
 Air Force Plant 59**

Dear Jim:

As per your request in a July 1998 letter to George Walters of the United States Air Force (USAF), additional investigations were conducted at three areas of concern (AOCs) at Air Force Plant 59 (AFP 59) identified by Lockheed Martin Control Systems (Lockheed Martin) in their February 3, 1998 letter to George Walters. The three AOCs include the sumps associated with the JNAC naphtha aboveground storage tanks (ASTs) in the Kerosene Storage Building (Building 10), the 4,000-gallon underground storage tank (UST) adjacent to monitoring well SW4, and the two 500-gallon flammable liquid USTs south of the Manufacturing Building. A fourth AOC mentioned in your July 1998 letter, the pit containing liquid in Dynamics Room B, was not investigated because there was no evidence of a release or any potential release mechanism.

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This letter documents the investigations that occurred the week of November 2, 1998 at the sumps associated with the JNAC naphtha ASTs in the Kerosene Storage Building (Building 10) and at the 4,000-gallon UST adjacent to monitoring well SW4. The investigation concerning the two 500-gallon flammable liquid USTs is documented in a January 19, 1999 letter to Gary Peterson from the Kirkwood office of the New York State Department of Environmental Conservation (NYSDEC).

**JNAC Naptha Aboveground Storage Tanks.** The Kerosene Storage Building, located south of the Manufacturing Building (see Figure 1), contains two 1,500-gallon ASTs that currently store JNAC naphtha. The bottom of each AST is set approximately 10 feet above the floor of the building, which is set below grade and is divided into two halves by a 3.5-foot-high wall. Both sections of the floor provide secondary containment in the event of a spill from either AST. Two sumps (one in each section of the floor) are located at the northwest and northeast corners of the building in case there is leakage and JNAC naphtha needs to be pumped from the floor. The approximate size of each sump is 1-foot square by 1-foot deep.

Because it was not possible to core through the concrete at the base of the sumps, sampling locations were positioned approximately 10-12 inches from each sump (see Figure 1). After OP-TECH Environmental Services (located in Milan, Pennsylvania) cored 4-inch-diameter holes through the 6-inch-thick concrete at the designated sampling locations, a hand auger was used to penetrate the ground. Approximately six inches of gravel had to be removed from beneath the concrete at each of the two sampling locations before soil was encountered.

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E A R T H  T E C H

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The first sampling location was approximately 10 inches east of the northwest sump (see Figure 1). Two soil samples and a replicate sample were collected from the hole with a hand auger. Soil samples BLD10WS01 (Building 10, western sump, soil sample 1) and BLD10WS09 (replicate sample) were collected from 1.5 to 2.0 feet below the floor and, therefore, 0.5 to 1 feet below the bottom of the sump. Soil sample BLD10WS02 (Building 10, western sump, soil sample 2) was collected from 3 to 3.5 feet below the floor and, therefore, 2 to 2.5 feet below the bottom of the sump. The soil was a brown, moderately plastic, moist, silty clay. A slight petroleum odor was noted in the soil from 3 to 3.5 feet below the floor, although no discoloration or staining was noted. The hand auger and screwdriver that were used to collect the soil samples were decontaminated outside the building between samples. Decontamination included scrubbing the equipment with distilled water andalconox, then rinsing it with distilled water.

The second sampling location was approximately 12 inches west of the northeast sump (see Figure 1). Two soil samples were collected from the hole with a hand auger. Soil sample BLD10ES01 (Building 10, eastern sump, soil sample 1) was collected from 1.5 to 2.0 feet below the floor and, therefore, 0.5 to 1 feet below the bottom of the sump. Soil sample BLD10ESO2 (Building 10, eastern sump, soil sample 2) was collected from 3 to 3.5 feet below the floor and, therefore, 2 to 2.5 feet below the bottom of the sump. The soil was a brown, moderately plastic, moist, silty clay. No petroleum odors, discoloration, or staining were noted in the soil. The hand auger and screwdriver that were used to collect the soil samples were decontaminated as described above.

Once sample collection activities were completed, each hole was backfilled with soil cuttings and gravel that were removed from the hole. The holes were then capped with concrete and the areas were cleaned.

All five soil samples (including the replicate) were analyzed at O'Brien & Gere Laboratories (located in Syracuse, New York) for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW8260B and semivolatile organic compounds (SVOCs) by USEPA Method SW8270C. The analytical results are discussed below, summarized in Table 1, and provided in Attachment 1.

As shown in Table 1 and Attachment 1, the following VOCs were detected in the soil samples: methylene chloride, xylene (total), isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, sec-butylbenzene, tert-butylbenzene, n-butylbenzene, 1,2,4-isopropyltoluene, p-isopropyltoluene, and naphthalene. Of the VOCs detected in the samples, only 1,3,5-trimethylbenzene, sec-butylbenzene, tert-butylbenzene, and n-butylbenzene in sample BLD10WS02 were detected above guidance values presented in the 1994 NYSDEC document *Spill Technology and Remediation Series (STARS) Memo #1: Petroleum-Contaminated Soil Guidance Policy*. As shown in Table 2, these detections were only slightly above the guidance values. Additionally, none of the VOCs that were detected above *STARS Memo #1* guidance values are listed in the 1994 NYSDEC publication



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*Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels.* Therefore, no cleanup objectives exist for these VOCs.

The only SVOC detected in the samples was bis(2-ethylhexyl)phthalate, which was detected in five of the six samples. No guidance value is listed for bis(2-ethylhexyl)phthalate in the 1994 NYSDEC *STARS Memo #1*. However, as shown in Table 2, none of the detections exceeded the recommended cleanup objective of 50 parts per billion (ppb) presented in the 1994 NYSDEC *TAGM*.

Although four VOCs were detected at concentrations slightly above guidance values presented in the 1994 NYSDEC *STARS Memo #1*, the site is covered by the Kerosene Storage Building, which eliminates potential exposure to the VOCs and limits the infiltration of water and the leaching of VOCs to groundwater. As a result, it is unlikely that the residual VOCs in the soil at the site will adversely impact groundwater at AFP 59. This conclusion is supported by the fact that none of the four VOCs were detected in any groundwater samples collected from site monitoring wells (including monitoring wells SW3 and SW9, which are hydraulically downgradient of the Kerosene Storage Building) during the most recent round of groundwater sampling (November 1998 by Earth Tech). Additionally, none of the VOCs detected are considered chemicals of concern at AFP 59 on the basis of historic soil and groundwater sampling results.

On the basis of the analytical results generated during the investigation and the conclusions presented above, no further action is warranted at the Kerosene Storage Building.

**4,000-Gallon Underground Storage Tank.** One 4,000-gallon UST that was located adjacent to monitoring well SW4 (see Figure 2) and was used to store water was removed during the week of November 2, 1998. All activities associated with the removal of the UST are described below.

Prior to excavation and removal of the UST, all water within the UST was pumped to the sanitary sewer. Disposal to the sanitary sewer was acceptable to the NYSDEC on the basis of analytical results from a water sample Lockheed Martin Control Systems collected from the UST on July 30, 1997. The sample was analyzed for VOCs by USEPA Method 601 and RCRA Metals; no VOCs or metals were detected in the sample.

During excavation and removal of the UST, no evidence of soil contamination was noted; no soil staining, discoloration, or odors were evident, and readings taken with the photoionization detector (PID) did not detect any VOCs. Soil samples were collected adjacent to and beneath the UST to assess the existence of any soil contamination resulting from UST leakage. Soil samples were collected for headspace analysis with the PID. The headspace analyses conducted did not detect any VOCs in the soil samples collected at the



UST site. As a result, one soil sample was collected from the excavation to confirm that no contamination existed at the UST site.

Soil sample 59UST3-1-SO1 was collected immediately below the center of UST3 (see Figure 2). Soil samples could not be collected 2 to 3 feet immediately below the UST because the excavation walls were collapsing. The collapsing walls endangered the integrity of monitoring wells SW4 and DW4 and threatened to undermine the walls of the storage shed located immediately west of the Plating Building. Therefore, the excavation was backfilled (all soil removed during excavation was used as backfill; additional clean fill was brought in from off site as necessary) as quickly as possible. The soil sample was analyzed at O'Brien & Gere Laboratories for VOCs by USEPA Method SW8260B and SVOCs by USEPA Method SW8270C. The analytical results are discussed below, summarized in Table 2, and provided in Attachment 2.

As shown in Table 2 and Attachment 2, no VOCs were detected in the soil sample (although the VOC analysis was run outside of the method holding time), but the following SVOCs were detected: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, phenanthrene, and pyrene. All of these compounds are polycyclic aromatic hydrocarbons (PAHs). As shown in Table 2, the majority of the PAH detections were above guidance values presented in the 1994 NYSDEC *STARS Memo #1*.

Although the VOC analysis was run outside of the method holding time (the laboratory accidentally ran the sample beyond the 14-day holding time) and SVOCs were detected above guidance values presented in the 1994 NYSDEC *STARS Memo #1*, the 4,000-gallon UST can be eliminated as a potential source area for the reasons listed below.

- The VOC analysis was conducted only two days beyond the 14-day holding time.
- No evidence of soil contamination (e.g., soil staining, discoloration, odors, or elevated PID readings) was noted during excavation and removal of the UST.
- The laboratory detection limits established by the SW8260 method are well below the soil cleanup objectives presented in the 1994 NYSDEC publication *Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels*. For example, the detection limit and cleanup objective for trichloroethene are 11 ppb and 700 ppb, respectively, and the detection limit and cleanup objective for 1,1,1-trichloroethane are 4.4 ppb and 800 ppb, respectively. Therefore, although it is possible that low-level concentrations may not have been detected as a result of the sample being run outside of the holding time, it is highly unlikely that concentrations exceeding or even approaching the NYSDEC cleanup objectives were not detected.

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- Lockheed Martin Control Systems records indicate that the UST was used between 1983 and 1988 for storage of production well water and recycled/treated rinsate water. No hazardous or petroleum products are known to have been stored in the UST; therefore, it represents an unlikely source of hazardous or petroleum products.
- The water sample that Lockheed Martin Control Systems collected from the UST on July 30, 1997 contained no VOCs or metals.

Although SVOCs were detected above guidance values presented in the 1994 NYSDEC *STARS Memo #1*, the former UST site is covered with an asphalt parking lot, which minimizes potential exposure to the PAHs and limits the infiltration of water and the leaching of PAHs to groundwater. The fact that PAHs are heavy, relatively immobile compounds also minimizes the possibility of PAHs leaching to groundwater. As a result, it is unlikely that the residual PAHs in the soil at the former UST site will adversely impact groundwater at AFP 59. This conclusion is supported by the fact that no PAHs were detected in any groundwater samples collected from site monitoring wells (including monitoring wells SW3, SW4, SW7, and SW9, which are hydraulically downgradient of the former UST site) during the most recent round of groundwater sampling that included SVOC analyses (December 1994 by Earth Tech).

On the basis of the analytical results generated during the investigation and the conclusions presented above, no further action is warranted at the former UST site.

Please feel free to contact me at (703) 549-8728 if you require any additional information.

Yours truly,

Earth Tech

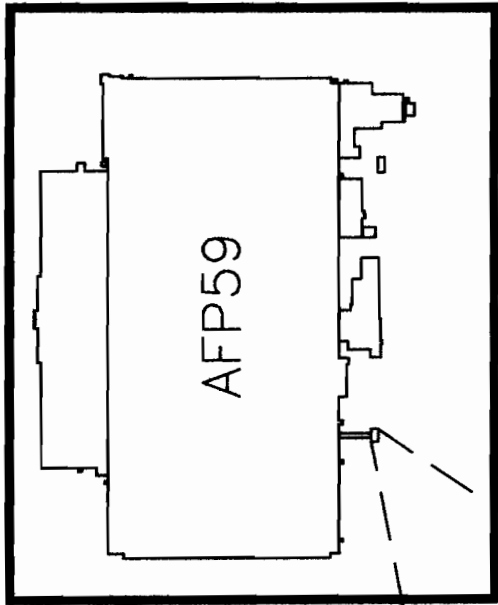


Dave Parse  
Project Manager

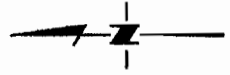
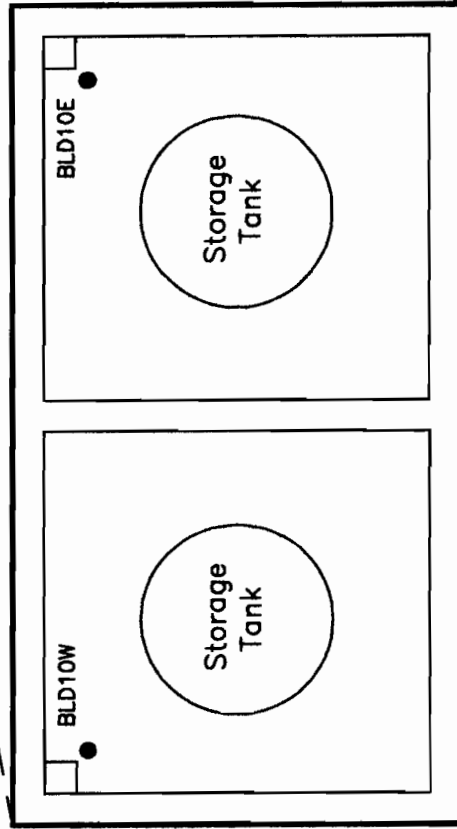
Enclosures

cc: Mr. John McCown, AFCEE RTC  
Mr. George Walters, ASC IPTC  
Mr. Doug Garner, Lockheed Martin Control Systems  
Mr. George Newkirk, ACO (w/o enclosures)  
Project File





Kerosene Storage Building



BARTH T O O H

FIGURE 1

AFP 59  
SOIL SAMPLING LOCATIONS AT  
THE KEROSENE STORAGE BUILDING

**LEGEND**

● BLD10E - Sample Location

Note: Soil samples were collected on November 6, 1998.

**Table 1**  
**Chemical Compounds Detected in Soil Samples**  
**from the Kerosene Storage Building at AFP 59**

Chemical Compound	Guidance Value (mg/kg)	BLD10W			Concentration (mg/kg)	
		BLD10WSO1	BLD10WSO9	BLD10WSO2	BLD10ES01	BLD10ES02
<b>Volatile Organic Compounds</b>						
Methylene Chloride	0.1 (1)	0.0075	0.0008	0.0053	0.0019	0.0007
Xylene (total)	0.1 (2)	0.0009	ND	0.0013	0.0014	ND
Isopropylbenzene	0.1 (2)	ND	ND	0.013	ND	ND
n-propylbenzene	0.1 (2)	0.0084	ND	0.065	ND	ND
1,3,5-Trimethylbenzene	0.1 (2)	ND	ND	<b>0.32</b>	ND	ND
tert-Butylbenzene	0.1 (2)	0.026	ND	<b>0.18</b>	ND	ND
n-Butylbenzene	0.1 (2)	ND	ND	<b>0.25</b>	ND	ND
1,2,4-Isopropyltoluene	NA	0.052	ND	0.42	ND	ND
Sec-Butylbenzene	0.1 (2)	0.036	ND	<b>0.2</b>	ND	ND
p-Isopropyltoluene	NA	0.035	ND	0.018	ND	ND
Naphthalene	0.2 (2)	ND	ND	0.016	ND	ND
<b>Semivolatile Organic Compounds</b>						
Bis(2-ethylhexyl) phthalate	50 (1)	ND	0.05	0.05	0.05	0.05

**Key:**  
 ND = Not Detected  
 NA = Not Applicable

- (1) Soil cleanup objective presented in the 1994 NYSDEC TAGM: *Determination of Soil Cleanup Objectives and Cleanup Levels.*
- (2) Guidance value presented in the 1994 NYSDEC STARS MEMO #1: *Petroleum-Contaminated Soil Guidance Policy.*

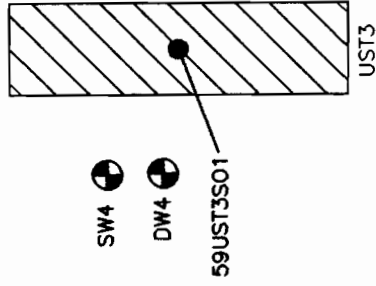
Notes: Only those compounds that were detected in the sample are included in the table.

All samples were analyzed for VOCs by SW8260 and SVOCs by SW8270.

Those compounds that were detected above a soil cleanup objective or a guidance value are presented in bold font.

Manufacturing Building

Plating Building



**LEGEND**

- 59UST3S01 - Sample Location and Number
- ▨ UST3 - Former Underground Storage Tank Location
- ⊕ SW4 - Monitoring Well Location and Number

Note: UST3 was removed and the soil sample was collected on November 4, 1998.

BARTH T B O H

FIGURE 2

AFP 59  
SOIL SAMPLING LOCATION AT  
FORMER UNDERGROUND STORAGE TANK SITE



**Table 2**  
**Chemical Compounds Detected in Soil Samples**  
**from the Former 4,000-Gallon UST Site at AFP 59**

Chemical Compound	Guidance Value (mg/kg)	UST3
		59UST3S01 Concentration (mg/kg)
<b>Semivolatile Organic Compounds</b>		
Benzo(a)anthracene	0.00004 (1)	<b>1.0</b>
Benzo(a)pyrene	0.00004 (1)	<b>0.72</b>
Benzo(b)fluoranthene	0.00004 (1)	<b>1.2</b>
Benzo(g,h,i)perylene	0.00004 (1)	<b>0.40</b>
Chrysene	0.00004 (1)	<b>0.90</b>
Fluoranthene	1.0 (1)	<b>1.4</b>
Phenanthrene	1.0 (1)	<b>0.50</b>
Pyrene	1.0 (1)	<b>3.3</b>

**Key:**

(1) Guidance value presented in the 1994 NYSDEC *STARS MEMO #1: Petroleum-Contaminated Soil Guidance Policy*.

Notes: Only those compounds that were detected in the sample are included in the table.

All samples were analyzed for VOCs by SW8260 and SVOCs by SW8270.

Those compounds that were detected above a guidance value are presented in bold font.

**Attachment 1: Analytical Data**  
**Kerosene Storage Building**

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample size: 5.19 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0058	R		1	11/12/98
Chloromethane	<.0081	U		1	11/12/98
Vinyl chloride	<.010	U		1	11/12/98
Bromomethane	<.0058	U		1	11/12/98
Chloroethane	<.0058	U		1	11/12/98
Trichlorofluoromethane	<.0046	U		1	11/12/98
1,1-Dichloroethene	<.0069	U		1	11/12/98
Methylene chloride	.0075			1	11/12/98
trans-1,2-Dichloroethene	<.0035	U		1	11/12/98
Methyl tert-butyl ether	<.0029	U		1	11/12/98
1,1-Dichloroethane	<.0023	U		1	11/12/98
cis-1,2-Dichloroethene	<.0069	U		1	11/12/98
Bromochloromethane	<.0023	U		1	11/12/98
Chloroform	<.0023	U		1	11/12/98
2,2-Dichloropropane	<.023	U		1	11/12/98
1,2-Dichloroethane	<.0035	U		1	11/12/98
1,1,1-Trichloroethane	<.0046	U		1	11/12/98
1,1-Dichloropropene	<.0058	U		1	11/12/98
Carbon tetrachloride	<.012	U		1	11/12/98
Benzene	<.0023	U		1	11/12/98
Dibromomethane	<.012	U		1	11/12/98
1,2-Dichloropropane	<.0023	U		1	11/12/98
Trichloroethene	<.012	U		1	11/12/98
Bromodichloromethane	<.0046	U		1	11/12/98
cis-1,3-Dichloropropene	<.0058	U		1	11/12/98
trans-1,3-Dichloropropene	<.0058	U		1	11/12/98
1,1,2-Trichloroethane	<.0058	U		1	11/12/98
Toluene	<.0058	U		1	11/12/98
1,3-Dichloropropane	<.0023	U		1	11/12/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample size: 5.19 g

Parameter	Result	Qual	Surrog	Limits	Dilution	Analyzed	Notes
Dibromochloromethane	<.0035	U			1	11/12/98	
1,2-Dibromoethane	<.0035	U			1	11/12/98	
Tetrachloroethene	<.0081	U			1	11/12/98	
1,1,1,2-Tetrachloroethane	<.0035	U			1	11/12/98	
Chlorobenzene	<.0023	U			1	11/12/98	
1-Chlorohexane	<.0035	U			1	11/12/98	
Ethylbenzene	<.0035	U			1	11/12/98	
Bromoform	<.0069	U			1	11/12/98	
o-Xylene	<.0058	U			1	11/12/98	
(m+p)-Xylene	J .00090	F			1	11/12/98	
Xylene (total)	J .00090	F			1	11/12/98	
Styrene	<.0029	U			1	11/12/98	
1,1,2,2-Tetrachloroethane	<.0029	U			1	11/12/98	
1,2,3-Trichloropropane	<.023	U			1	11/12/98	
Isopropylbenzene	<.0092	U			1	11/12/98	
Bromobenzene	<.0023	U			1	11/12/98	
n-Propylbenzene	.0084				1	11/12/98	
2-Chlorotoluene	<.0023	U			1	11/12/98	
4-Chlorotoluene	<.0035	U			1	11/12/98	
1,3,5-Trimethylbenzene	<.0035	U			1	11/12/98	
tert-Butylbenzene	.026				1	11/12/98	
n-Butylbenzene	<.0058	U			1	11/12/98	
1,2,4-Trimethylbenzene	.052				1	11/12/98	
sec-Butylbenzene	.036				1	11/12/98	
1,3-Dichlorobenzene	<.0069	U			1	11/12/98	
1,4-Dichlorobenzene	<.0023	U			1	11/12/98	
p-Isopropyltoluene	.035				1	11/12/98	
1,2-Dichlorobenzene	<.0023	U			1	11/12/98	
1,2-Dibromo-3-chloropropane	<.012	U			1	11/12/98	
1,2,4-Trichlorobenzene	<.0023	U			1	11/12/98	
Naphthalene	<.0058	U			1	11/12/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample size: 5.19 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Hexachlorobutadiene	<.0058	U		1	11/12/98	
1,2,3-Trichlorobenzene	<.0023	U		1	11/12/98	
1,2-Dichloroethane-d4 (surrogate)	82.%		52-149	1	11/12/98	
Dibromofluoromethane (surrogate)	81.%		65-135	1	11/12/98	
Toluene-d8 (surrogate)	83.%		65-135	1	11/12/98	
Bromofluorobenzene (surrogate)	100.%		65-135	1	11/12/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 8, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample Size: 35.9 g

Parameter	Result	Qual	Surrog		Not.
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1	11/18/98
Phenol	<.30	U		1	11/18/98
2-Chlorophenol	<.30	U		1	11/18/98
1,3-Dichlorobenzene	<.70	U		1	11/18/98
1,4-Dichlorobenzene	<.70	U		1	11/18/98
Benzyl alcohol	<1.3	U		1	11/18/98
1,2-Dichlorobenzene	<.70	U		1	11/18/98
2-Methylphenol	<.30	U		1	11/18/98
bis(2-Chloroisopropyl) ether	<.70	U		1	11/18/98
4-Methylphenol	<.30	U		1	11/18/98
N-Nitroso-di-n-propylamine	<.70	U		1	11/18/98
Hexachloroethane	<.70	U		1	11/18/98
Nitrobenzene	<.70	U		1	11/18/98
Isophorone	<.70	U		1	11/18/98
2-Nitrophenol	<.30	U		1	11/18/98
2,4-Dimethylphenol	<.30	U		1	11/18/98
bis(2-Chloroethoxy) methane	<.70	U		1	11/18/98
Benzoic acid	<1.6	U		1	11/18/98
2,4-Dichlorophenol	<.30	U		1	11/18/98
1,2,4-Trichlorobenzene	<.70	U		1	11/18/98
Naphthalene	<.70	U		1	11/18/98
4-Chloroaniline	<1.3	R		1	11/18/98
Hexachlorobutadiene	<.70	U		1	11/18/98
4-Chloro-3-methylphenol	<1.3	U		1	11/18/98
2-Methylnaphthalene	<.70	U		1	11/18/98
Hexachlorocyclopentadiene	<.70	U		1	11/18/98
2,4,6-Trichlorophenol	<.30	U		1	11/18/98
2,4,5-Trichlorophenol	<3.3	U		1	11/18/98
2-Chloronaphthalene	<.70	U		1	11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample Size: 35.9 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<3.3	U		1 11/18/98	
Dimethyl phthalate	<.70	U		1 11/18/98	
Acenaphthylene	<.70	U		1 11/18/98	
2,6-Dinitrotoluene	<.70	U		1 11/18/98	
3-Nitroaniline	<3.3	U		1 11/18/98	
Acenaphthene	<.70	U		1 11/18/98	
2,4-Dinitrophenol	<3.3	U		1 11/18/98	
4-Nitrophenol	<1.6	U		1 11/18/98	
Dibenzofuran	<.70	U		1 11/18/98	
2,4-Dinitrotoluene	<.70	U		1 11/18/98	
Diethyl phthalate	<.70	U		1 11/18/98	
Fluorene	<.70	U		1 11/18/98	
4-Chlorophenyl phenyl ether	<.70	U		1 11/18/98	
4-Nitroaniline	<3.3	U		1 11/18/98	
4,6-Dinitro-2-methylphenol	<3.3	U		1 11/18/98	
N-Nitrosodiphenylamine	<.70	U		1 11/18/98	
4-Bromophenyl phenyl ether	<.70	U		1 11/18/98	
Hexachlorobenzene	<.70	U		1 11/18/98	
Pentachlorophenol	<3.3	U		1 11/18/98	
Phenanthrene	<.70	U		1 11/18/98	
Anthracene	<.70	U		1 11/18/98	
Di-n-butyl phthalate	<.70	U		1 11/18/98	
Fluoranthene	<.70	U		1 11/18/98	
Pyrene	<.70	U		1 11/18/98	
Butyl benzyl phthalate	<.70	U		1 11/18/98	
3,3'-Dichlorobenzidine	<1.3	U		1 11/18/98	
Benzo [a] anthracene	<.70	U		1 11/18/98	
Chrysene	<.70	U		1 11/18/98	
bis (2-Ethylhexyl) phthalate	<.70	U		1 11/18/98	
Di-n-octyl phthalate	<.70	U		1 11/18/98	
Benzo [b] fluoranthene	<.70	U		1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9437  
Samp. Description: BLD10W S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98 Matrix: Solid  
Received: 11/07/98 QC Batch: 111298S1  
Prepared: 11/12/98 %Solids: 83.6  
Sample Size: 35.9 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Not</u>
Benzo[a]pyrene	<.70	U		1	11/18/98	
Indeno[1,2,3-cd]pyrene	<.70	U		1	11/18/98	
Dibenz[a,h]anthracene	<.70	U		1	11/18/98	
Benzo[g,h,i]perylene	<.70	U		1	11/18/98	
2-Fluorophenol (surrogate)	82.%		25-135	1	11/18/98	
Phenol-d5 (surrogate)	96.%		25-135	1	11/18/98	
2,4,6-Tribromophenol (surrogate)	80.%		25-144	1	11/18/98	
Nitrobenzene-d5 (surrogate)	98.%		25-135	1	11/18/98	
2-Fluorobiphenyl (surrogate)	104.%		34-135	1	11/18/98	
Terphenyl-d14 (surrogate)	119.%		32-136	1	11/18/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/20/98  
Matrix: Solid  
QC Batch: 112098S2  
%Solids: 86.1  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0058	R		1 11/20/98	
Chloromethane	<.0081	R		1 11/20/98	
Vinyl chloride	<.010	U		1 11/20/98	
Bromomethane	<.0058	R		1 11/20/98	
Chloroethane	<.0058	U		1 11/20/98	
Trichlorofluoromethane	<.0046	U		1 11/20/98	
1,1-Dichloroethene	<.0070	U		1 11/20/98	
Methylene chloride	J .00080	F		1 11/20/98	
trans-1,2-Dichloroethene	<.0035	U		1 11/20/98	
Methyl tert-butyl ether	<.0029	U		1 11/20/98	
1,1-Dichloroethane	<.0023	U		1 11/20/98	
cis-1,2-Dichloroethene	<.0070	U		1 11/20/98	
Bromochloromethane	<.0023	U		1 11/20/98	
Chloroform	<.0023	U		1 11/20/98	
2,2-Dichloropropane	<.023	U		1 11/20/98	
1,2-Dichloroethane	<.0035	U		1 11/20/98	
1,1,1-Trichloroethane	<.0046	U		1 11/20/98	
1,1-Dichloropropene	<.0058	U		1 11/20/98	
Carbon tetrachloride	<.012	U		1 11/20/98	
Benzene	<.0023	U		1 11/20/98	
Dibromomethane	<.012	U		1 11/20/98	
1,2-Dichloropropane	<.0023	U		1 11/20/98	
Trichloroethene	<.012	U		1 11/20/98	
Bromodichloromethane	<.0046	U		1 11/20/98	
cis-1,3-Dichloropropene	<.0058	U		1 11/20/98	
trans-1,3-Dichloropropene	<.0058	U		1 11/20/98	
1,1,2-Trichloroethane	<.0058	U		1 11/20/98	
Toluene	<.0058	U		1 11/20/98	
1,3-Dichloropropane	<.0023	U		1 11/20/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98 Matrix: Solid  
Received: 11/07/98 QC Batch: 112098S2  
Prepared: 11/20/98 %Solids: 86.1  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0035	U		1 11/20/98	
1,2-Dibromoethane	<.0035	U		1 11/20/98	
Tetrachloroethene	<.0081	U		1 11/20/98	
1,1,1,2-Tetrachloroethane	<.0035	U		1 11/20/98	
Chlorobenzene	<.0023	U		1 11/20/98	
1-Chlorohexane	<.0035	U		1 11/20/98	
Ethylbenzene	<.0035	U		1 11/20/98	
Bromoforn	<.0070	U		1 11/20/98	
o-Xylene	<.0058	U		1 11/20/98	
(m+p)-Xylene	<.0046	U		1 11/20/98	
Xylene (total)	<.0058	U		1 11/20/98	
Styrene	<.0029	U		1 11/20/98	
1,1,2,2-Tetrachloroethane	<.0029	U		1 11/20/98	
1,2,3-Trichloropropane	<.023	U		1 11/20/98	
Isopropylbenzene	<.0093	U		1 11/20/98	
Bromobenzene	<.0023	U		1 11/20/98	
n-Propylbenzene	<.0023	U		1 11/20/98	
2-Chlorotoluene	<.0023	U		1 11/20/98	
4-Chlorotoluene	<.0035	U		1 11/20/98	
1,3,5-Trimethylbenzene	<.0035	U		1 11/20/98	
tert-Butylbenzene	<.0081	U		1 11/20/98	
n-Butylbenzene	<.0058	U		1 11/20/98	
1,2,4-Trimethylbenzene	<.0081	U		1 11/20/98	
sec-Butylbenzene	<.0081	U		1 11/20/98	
1,3-Dichlorobenzene	<.0070	U		1 11/20/98	
1,4-Dichlorobenzene	<.0023	U		1 11/20/98	
p-Isopropyltoluene	<.0070	U		1 11/20/98	
1,2-Dichlorobenzene	<.0023	U		1 11/20/98	
1,2-Dibromo-3-chloropropane	<.012	U		1 11/20/98	
1,2,4-Trichlorobenzene	<.0023	U		1 11/20/98	
Naphthalene	<.0058	U		1 11/20/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 112098S2  
Prepared: 11/20/98      %Solids: 86.1  
Sample size: 5 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0058	U		1	11/20/98	
1,2,3-Trichlorobenzene	<.0023	U		1	11/20/98	
1,2-Dichloroethane-d4 (surrogate)	102.%		52-149	1	11/20/98	
Dibromofluoromethane (surrogate)	112.%		65-135	1	11/20/98	
Toluene-d8 (surrogate)	104.%		65-135	1	11/20/98	
Bromofluorobenzene (surrogate)	107.%		65-135	1	11/20/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 86.1  
Sample Size: 34.8 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1	11/18/98
Phenol	<.30	U		1	11/18/98
2-Chlorophenol	<.30	U		1	11/18/98
1,3-Dichlorobenzene	<.70	U		1	11/18/98
1,4-Dichlorobenzene	<.70	U		1	11/18/98
Benzyl alcohol	<1.3	U		1	11/18/98
1,2-Dichlorobenzene	<.70	U		1	11/18/98
2-Methylphenol	<.30	U		1	11/18/98
bis(2-Chloroisopropyl) ether	<.70	U		1	11/18/98
4-Methylphenol	<.30	U		1	11/18/98
N-Nitroso-di-n-propylamine	<.70	U		1	11/18/98
Hexachloroethane	<.70	U		1	11/18/98
Nitrobenzene	<.70	U		1	11/18/98
Isophorone	<.70	U		1	11/18/98
2-Nitrophenol	<.30	U		1	11/18/98
2,4-Dimethylphenol	<.30	U		1	11/18/98
bis(2-Chloroethoxy) methane	<.70	U		1	11/18/98
Benzoic acid	<1.6	U		1	11/18/98
2,4-Dichlorophenol	<.30	U		1	11/18/98
1,2,4-Trichlorobenzene	<.70	U		1	11/18/98
Naphthalene	<.70	U		1	11/18/98
4-Chloroaniline	<1.3	R		1	11/18/98
Hexachlorobutadiene	<.70	U		1	11/18/98
4-Chloro-3-methylphenol	<1.3	U		1	11/18/98
2-Methylnaphthalene	<.70	U		1	11/18/98
Hexachlorocyclopentadiene	<.70	U		1	11/18/98
2,4,6-Trichlorophenol	<.30	U		1	11/18/98
2,4,5-Trichlorophenol	<3.3	U		1	11/18/98
2-Chloronaphthalene	<.70	U		1	11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 86.1  
Sample Size: 34.8 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution	
2-Nitroaniline	<3.3	U		1	11/18/98
Dimethyl phthalate	<.70	U		1	11/18/98
Acenaphthylene	<.70	U		1	11/18/98
2,6-Dinitrotoluene	<.70	U		1	11/18/98
3-Nitroaniline	<3.3	U		1	11/18/98
Acenaphthene	<.70	U		1	11/18/98
2,4-Dinitrophenol	<3.3	U		1	11/18/98
4-Nitrophenol	<1.6	U		1	11/18/98
Dibenzofuran	<.70	U		1	11/18/98
2,4-Dinitrotoluene	<.70	U		1	11/18/98
Diethyl phthalate	<.70	U		1	11/18/98
Fluorene	<.70	U		1	11/18/98
4-Chlorophenyl phenyl ether	<.70	U		1	11/18/98
4-Nitroaniline	<3.3	U		1	11/18/98
4,6-Dinitro-2-methylphenol	<3.3	U		1	11/18/98
N-Nitrosodiphenylamine	<.70	U		1	11/18/98
4-Bromophenyl phenyl ether	<.70	U		1	11/18/98
Hexachlorobenzene	<.70	U		1	11/18/98
Pentachlorophenol	<3.3	U		1	11/18/98
Phenanthrene	<.70	U		1	11/18/98
Anthracene	<.70	U		1	11/18/98
Di-n-butyl phthalate	<.70	U		1	11/18/98
Fluoranthene	<.70	U		1	11/18/98
Pyrene	<.70	U		1	11/18/98
Butyl benzyl phthalate	<.70	U		1	11/18/98
3,3'-Dichlorobenzidine	<1.3	U		1	11/18/98
Benzo[a]anthracene	<.70	U		1	11/18/98
Chrysene	<.70	U		1	11/18/98
bis(2-Ethylhexyl)phthalate	J .050	F		1	11/18/98
Di-n-octyl phthalate	<.70	U		1	11/18/98
Benzo[b]fluoranthene	<.70	U		1	11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9441  
Samp. Description: BLD10W S09  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111298S1  
Prepared: 11/12/98      %Solids: 86.1  
Sample Size: 34.8 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Note</u>
Benzo[a]pyrene	<.70	U			1	11/18/98
Indeno[1,2,3-cd]pyrene	<.70	U			1	11/18/98
Dibenz[a,h]anthracene	<.70	U			1	11/18/98
Benzo[g,h,i]perylene	<.70	U			1	11/18/98
2-Fluorophenol (surrogate)	75.%		25-135		1	11/18/98
Phenol-d5 (surrogate)	84.%		25-135		1	11/18/98
2,4,6-Tribromophenol (surrogate)	81.%		25-144		1	11/18/98
Nitrobenzene-d5 (surrogate)	91.%		25-135		1	11/18/98
2-Fluorobiphenyl (surrogate)	93.%		34-135		1	11/18/98
Terphenyl-d14 (surrogate)	110.%		32-136		1	11/18/98

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: ug/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 84.1  
Sample size: 5.19 g

Parameter	Result	Qual	Surrog			Notes
			Limits	Dilution	Analyzed	
Dichlorodifluoromethane	<.0057	R			1	11/12/98
Chloromethane	<.0080	U			1	11/12/98
Vinyl chloride	<.010	U			1	11/12/98
Bromomethane	<.0057	U			1	11/12/98
Chloroethane	<.0057	U			1	11/12/98
Trichlorofluoromethane	<.0046	U			1	11/12/98
1,1-Dichloroethene	<.0069	U			1	11/12/98
Methylene chloride	.0053				1	11/12/98
trans-1,2-Dichloroethene	<.0034	U			1	11/12/98
Methyl tert-butyl ether	<.0029	U			1	11/12/98
1,1-Dichloroethane	<.0023	U			1	11/12/98
cis-1,2-Dichloroethene	<.0069	U			1	11/12/98
Bromochloromethane	<.0023	U			1	11/12/98
Chloroform	<.0023	U			1	11/12/98
2,2-Dichloropropane	<.023	U			1	11/12/98
1,2-Dichloroethane	<.0034	U			1	11/12/98
1,1,1-Trichloroethane	<.0046	U			1	11/12/98
1,1-Dichloropropene	<.0057	U			1	11/12/98
Carbon tetrachloride	<.012	U			1	11/12/98
Benzene	<.0023	U			1	11/12/98
Dibromomethane	<.012	U			1	11/12/98
1,2-Dichloropropane	<.0023	U			1	11/12/98
Trichloroethene	<.012	U			1	11/12/98
Bromodichloromethane	<.0046	U			1	11/12/98
cis-1,3-Dichloropropene	<.0057	U			1	11/12/98
trans-1,3-Dichloropropene	<.0057	U			1	11/12/98
1,1,2-Trichloroethane	<.0057	U			1	11/12/98
Toluene	<.0057	U			1	11/12/98
1,3-Dichloropropane	<.0023	U			1	11/12/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: ug/Kg Dry weight < *mg/kg*  
Number of analytes: 66

Collected: 11/06/98 Matrix: Solid  
Received: 11/07/98 QC Batch: 111298S1  
Prepared: 11/12/98 %Solids: 84.1  
Sample size: 5.19 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Notes
Dibromochloromethane	<.0034	U		1	11/12/98	
1,2-Dibromoethane	<.0034	U		1	11/12/98	
Tetrachloroethene	<.0080	U		1	11/12/98	
1,1,1,2-Tetrachloroethane	<.0034	U		1	11/12/98	
Chlorobenzene	<.0023	U		1	11/12/98	
1-Chlorohexane	<.0034	U		1	11/12/98	
Ethylbenzene	<.0034	U		1	11/12/98	
Bromoforn	<.0069	U		1	11/12/98	
o-Xylene	<.0057	U		1	11/12/98	
(m+p)-Xylene	J .0013	F		1	11/12/98	
Xylene (total)	J .0013	F		1	11/12/98	
Styrene	<.0029	U		1	11/12/98	
1,1,2,2-Tetrachloroethane	<.0029	U		1	11/12/98	
1,2,3-Trichloropropane	<.023	U		1	11/12/98	
Isopropylbenzene	.013			1	11/12/98	
Bromobenzene	<.0023	U		1	11/12/98	
n-Propylbenzene	.065			1	11/12/98	
2-Chlorotoluene	<.0023	U		1	11/12/98	
4-Chlorotoluene	<.0034	U		1	11/12/98	
1,3,5-Trimethylbenzene	.32			1	11/12/98	
tert-Butylbenzene	.18			1	11/12/98	
n-Butylbenzene	.25			1	11/12/98	
1,2,4-Trimethylbenzene	.42			1	11/12/98	
sec-Butylbenzene	.20			1	11/12/98	
1,3-Dichlorobenzene	<.0069	U		1	11/12/98	
1,4-Dichlorobenzene	<.0023	U		1	11/12/98	
p-Isopropyltoluene	.018			1	11/12/98	
1,2-Dichlorobenzene	<.0023	U		1	11/12/98	
1,2-Dibromo-3-chloropropane	<.012	U		1	11/12/98	
1,2,4-Trichlorobenzene	<.0023	U		1	11/12/98	
Naphthalene	.016			1	11/12/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: ug/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111298S1  
Prepared: 11/12/98      %Solids: 84.1  
Sample size: 5.19 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0057	U		1	11/12/98	
1,2,3-Trichlorobenzene	<.0023	U		1	11/12/98	
1,2-Dichloroethane-d4 (surrogate)	84.%		52-149	1	11/12/98	
Dibromofluoromethane (surrogate)	83.%		65-135	1	11/12/98	
Toluene-d8 (surrogate)	85.%		65-135	1	11/12/98	
Bromofluorobenzene (surrogate)	116.%		65-135	1	11/12/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

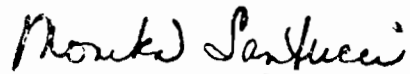
Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438DL  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/16/98  
Matrix: Solid  
QC Batch: 111698S1  
%Solids: 84.1  
Sample size: 1.16 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.026	R		1 11/16/98	
Chloromethane	<.036	U		1 11/16/98	
Vinyl chloride	<.046	U		1 11/16/98	
Bromomethane	<.026	U		1 11/16/98	
Chloroethane	<.026	U		1 11/16/98	
Trichlorofluoromethane	<.020	U		1 11/16/98	
1,1-Dichloroethene	<.031	U		1 11/16/98	
Methylene chloride	J .0033	F		1 11/16/98	
trans-1,2-Dichloroethene	<.015	U		1 11/16/98	
Methyl tert-butyl ether	<.013	U		1 11/16/98	
1,1-Dichloroethane	<.010	U		1 11/16/98	
cis-1,2-Dichloroethene	<.031	U		1 11/16/98	
Bromochloromethane	<.010	U		1 11/16/98	
Chloroform	<.010	U		1 11/16/98	
2,2-Dichloropropane	<.10	U		1 11/16/98	
1,2-Dichloroethane	<.015	U		1 11/16/98	
1,1,1-Trichloroethane	<.020	U		1 11/16/98	
1,1-Dichloropropene	<.026	U		1 11/16/98	
Carbon tetrachloride	<.051	U		1 11/16/98	
Benzene	<.010	U		1 11/16/98	
Dibromomethane	<.051	U		1 11/16/98	
1,2-Dichloropropane	<.010	U		1 11/16/98	
Trichloroethene	<.051	U		1 11/16/98	
Bromodichloromethane	<.020	U		1 11/16/98	
cis-1,3-Dichloropropene	<.026	U		1 11/16/98	
trans-1,3-Dichloropropene	<.026	U		1 11/16/98	
1,1,2-Trichloroethane	<.026	U		1 11/16/98	
Toluene	<.026	U		1 11/16/98	
1,3-Dichloropropane	<.010	U		1 11/16/98	

# - Outside control limits J-Estimated value

Authorized: 

Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438DL  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/16/98  
Matrix: Solid  
QC Batch: 111698S1  
%Solids: 84.1  
Sample size: 1.16 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.015	U		1 11/16/98	
1,2-Dibromoethane	<.015	U		1 11/16/98	
Tetrachloroethene	<.036	U		1 11/16/98	
1,1,1,2-Tetrachloroethane	<.015	U		1 11/16/98	
Chlorobenzene	<.010	U		1 11/16/98	
1-Chlorohexane	<.015	U		1 11/16/98	
Ethylbenzene	<.015	U		1 11/16/98	
Bromofcsm	<.031	U		1 11/16/98	
o-Xylene	<.026	U		1 11/16/98	
(m+p)-Xylene	<.020	U		1 11/16/98	
Xylene (total)	<.026	U		1 11/16/98	
Styrene	<.013	U		1 11/16/98	
1,1,2,2-Tetrachloroethane	<.013	U		1 11/16/98	
1,2,3-Trichloropropane	<.10	U		1 11/16/98	
Isopropylbenzene	<.041	U		1 11/16/98	
Bromobenzene	<.010	U		1 11/16/98	
n-Propylbenzene	.020			1 11/16/98	
2-Chlorotoluene	<.010	U		1 11/16/98	
4-Chlorotoluene	<.015	U		1 11/16/98	
1,3,5-Trimethylbenzene	.12			1 11/16/98	
tert-Butylbenzene	.063			1 11/16/98	
n-Butylbenzene	.083			1 11/16/98	
1,2,4-Trimethylbenzene	.20			1 11/16/98	
sec-Butylbenzene	.066			1 11/16/98	
1,3-Dichlorobenzene	<.031	U		1 11/16/98	
1,4-Dichlorobenzene	<.010	U		1 11/16/98	
p-Isopropyltoluene	.15			1 11/16/98	
1,2-Dichlorobenzene	<.010	U		1 11/16/98	
1,2-Dibromo-3-chloropropane	<.051	U		1 11/16/98	
1,2,4-Trichlorobenzene	<.010	U		1 11/16/98	
Naphthalene	J .0080	F		1 11/16/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438DL  
Samp. Description: BLD10W S02  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111698S1  
Prepared: 11/16/98      %Solids: 84.1  
Sample size: 1.16 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.026	U		1	11/16/98	
1,2,3-Trichlorobenzene	<.010	U		1	11/16/98	
1,2-Dichloroethane-d4 (surrogate)	83.%		52-149	1	11/16/98	
Dibromofluoromethane (surrogate)	82.%		65-135	1	11/16/98	
Toluene-d8 (surrogate)	82.%		65-135	1	11/16/98	
Bromofluorobenzene (surrogate)	96.%		65-135	1	11/16/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 84.1  
Sample Size: 35.7 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<.70	U		1 11/18/98	
Phenol	<.30	U		1 11/18/98	
2-Chlorophenol	<.30	U		1 11/18/98	
1,3-Dichlorobenzene	<.70	U		1 11/18/98	
1,4-Dichlorobenzene	<.70	U		1 11/18/98	
Benzyl alcohol	<1.3	U		1 11/18/98	
1,2-Dichlorobenzene	<.70	U		1 11/18/98	
2-Methylphenol	<.30	U		1 11/18/98	
bis(2-Chloroisopropyl) ether	<.70	U		1 11/18/98	
4-Methylphenol	<.30	U		1 11/18/98	
N-Nitroso-di-n-propylamine	<.70	U		1 11/18/98	
Hexachloroethane	<.70	U		1 11/18/98	
Nitrobenzene	<.70	U		1 11/18/98	
Isophorone	<.70	U		1 11/18/98	
2-Nitrophenol	<.30	U		1 11/18/98	
2,4-Dimethylphenol	<.30	U		1 11/18/98	
bis(2-Chloroethoxy) methane	<.70	U		1 11/18/98	
Benzoic acid	<1.6	U		1 11/18/98	
2,4-Dichlorophenol	<.30	U		1 11/18/98	
1,2,4-Trichlorobenzene	<.70	U		1 11/18/98	
Naphthalene	<.70	U		1 11/18/98	
4-Chloroaniline	<1.3	R		1 11/18/98	
Hexachlorobutadiene	<.70	U		1 11/18/98	
4-Chloro-3-methylphenol	<1.3	U		1 11/18/98	
2-Methylnaphthalene	<.70	U		1 11/18/98	
Hexachlorocyclopentadiene	<.70	U		1 11/18/98	
2,4,6-Trichlorophenol	<.30	U		1 11/18/98	
2,4,5-Trichlorophenol	<3.3	U		1 11/18/98	
2-Chloronaphthalene	<.70	U		1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 84.1  
Sample Size: 35.7 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed	Note
2-Nitroaniline	<3.3	U	1 11/18/98	
Dimethyl phthalate	<.70	U	1 11/18/98	
Acenaphthylene	<.70	U	1 11/18/98	
2,6-Dinitrotoluene	<.70	U	1 11/18/98	
3-Nitroaniline	<3.3	U	1 11/18/98	
Acenaphthene	<.70	U	1 11/18/98	
2,4-Dinitrophenol	<3.3	U	1 11/18/98	
4-Nitrophenol	<1.6	U	1 11/18/98	
Dibenzofuran	<.70	U	1 11/18/98	
2,4-Dinitrotoluene	<.70	U	1 11/18/98	
Diethyl phthalate	<.70	U	1 11/18/98	
Fluorene	<.70	U	1 11/18/98	
4-Chlorophenyl phenyl ether	<.70	U	1 11/18/98	
4-Nitroaniline	<3.3	U	1 11/18/98	
4,6-Dinitro-2-methylphenol	<3.3	U	1 11/18/98	
N-Nitrosodiphenylamine	<.70	U	1 11/18/98	
4-Bromophenyl phenyl ether	<.70	U	1 11/18/98	
Hexachlorobenzene	<.70	U	1 11/18/98	
Pentachlorophenol	<3.3	U	1 11/18/98	
Phenanthrene	<.70	U	1 11/18/98	
Anthracene	<.70	U	1 11/18/98	
Di-n-butyl phthalate	<.70	U	1 11/18/98	
Fluoranthene	<.70	U	1 11/18/98	
Pyrene	<.70	U	1 11/18/98	
Butyl benzyl phthalate	<.70	U	1 11/18/98	
3,3'-Dichlorobenzidine	<1.3	U	1 11/18/98	
Benzo[a]anthracene	<.70	U	1 11/18/98	
Chrysene	<.70	U	1 11/18/98	
bis(2-Ethylhexyl)phthalate	J .050	F	1 11/18/98	
Di-n-octyl phthalate	<.70	U	1 11/18/98	
Benzo[b]fluoranthene	<.70	R	1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98 Matrix: Solid  
Received: 11/07/98 QC Batch: 111298S1  
Prepared: 11/12/98 %Solids: 84.1  
Sample Size: 35.7 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits Dilution Analyzed Note</u>
Benzo[a]pyrene	<.70	R	1 11/18/98
Indeno[1,2,3-cd]pyrene	<.70	U	1 11/18/98
Dibenz[a,h]anthracene	<.70	R	1 11/18/98
Benzo[g,h,i]perylene	<.70	R	1 11/18/98
2-Fluorophenol (surrogate)	77.%		25-135 1 11/18/98
Phenol-d5 (surrogate)	88.%		25-135 1 11/18/98
2,4,6-Tribromophenol (surrogate)	80.%		25-144 1 11/18/98
Nitrobenzene-d5 (surrogate)	98.%		25-135 1 11/18/98
2-Fluorobiphenyl (surrogate)	100.%		34-135 1 11/18/98
Terphenyl-d14 (surrogate)	117.%		32-136 1 11/18/98

Notes:

\* - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8270**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438RE  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 84.1  
Sample Size: 35.7 g

Parameter	Result	Qual	Surrog		
			Limits	Dilution	Analyzed Note
bis(2-Chloroethyl) ether	<.70	U		1	11/19/98
Phenol	<.30	U		1	11/19/98
2-Chlorophenol	<.30	U		1	11/19/98
1,3-Dichlorobenzene	<.70	U		1	11/19/98
1,4-Dichlorobenzene	<.70	U		1	11/19/98
Benzyl alcohol	<1.3	U		1	11/19/98
1,2-Dichlorobenzene	<.70	U		1	11/19/98
2-Methylphenol	<.30	U		1	11/19/98
bis(2-Chloroisopropyl) ether	<.70	U		1	11/19/98
4-Methylphenol	<.30	U		1	11/19/98
N-Nitroso-di-n-propylamine	<.70	U		1	11/19/98
Hexachloroethane	<.70	U		1	11/19/98
Nitrobenzene	<.70	U		1	11/19/98
Isophorone	<.70	U		1	11/19/98
2-Nitrophenol	<.30	U		1	11/19/98
2,4-Dimethylphenol	<.30	U		1	11/19/98
bis(2-Chloroethoxy)methane	<.70	U		1	11/19/98
Benzoic acid	<1.6	U		1	11/19/98
2,4-Dichlorophenol	<.30	U		1	11/19/98
1,2,4-Trichlorobenzene	<.70	U		1	11/19/98
Naphthalene	<.70	U		1	11/19/98
4-Chloroaniline	<1.3	R		1	11/19/98
Hexachlorobutadiene	<.70	U		1	11/19/98
4-Chloro-3-methylphenol	<1.3	U		1	11/19/98
2-Methylnaphthalene	<.70	U		1	11/19/98
Hexachlorocyclopentadiene	<.70	U		1	11/19/98
2,4,6-Trichlorophenol	<.30	U		1	11/19/98
2,4,5-Trichlorophenol	<3.3	U		1	11/19/98
2-Chloronaphthalene	<.70	U		1	11/19/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY


Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438RE  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 84.1  
Sample Size: 35.7 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<3.3	U		1 11/19/98	
Dimethyl phthalate	<.70	U		1 11/19/98	
Acenaphthylene	<.70	U		1 11/19/98	
2,6-Dinitrotoluene	<.70	U		1 11/19/98	
3-Nitroaniline	<3.3	U		1 11/19/98	
Acenaphthene	<.70	U		1 11/19/98	
2,4-Dinitrophenol	<3.3	U		1 11/19/98	
4-Nitrophenol	<1.6	U		1 11/19/98	
Dibenzofuran	<.70	U		1 11/19/98	
2,4-Dinitrotoluene	<.70	U		1 11/19/98	
Diethyl phthalate	<.70	U		1 11/19/98	
Fluorene	<.70	U		1 11/19/98	
4-Chlorophenyl phenyl ether	<.70	U		1 11/19/98	
4-Nitroaniline	<3.3	U		1 11/19/98	
4,6-Dinitro-2-methylphenol	<3.3	U		1 11/19/98	
N-Nitrosodiphenylamine	<.70	U		1 11/19/98	
4-Bromophenyl phenyl ether	<.70	U		1 11/19/98	
Hexachlorobenzene	<.70	U		1 11/19/98	
Pentachlorophenol	<3.3	U		1 11/19/98	
Phenanthrene	<.70	U		1 11/19/98	
Anthracene	<.70	U		1 11/19/98	
Di-n-butyl phthalate	<.70	U		1 11/19/98	
Fluoranthene	<.70	U		1 11/19/98	
Pyrene	<.70	U		1 11/19/98	
Butyl benzyl phthalate	<.70	U		1 11/19/98	
3,3'-Dichlorobenzidine	<1.3	R		1 11/19/98	
Benzo[a]anthracene	<.70	U		1 11/19/98	
Chrysene	<.70	U		1 11/19/98	
bis(2-Ethylhexyl)phthalate	J .050	F		1 11/19/98	
Di-n-octyl phthalate	<.70	U		1 11/19/98	
Benzo[b]fluoranthene	<.70	R		1 11/19/98	

# - Outside control limits J-Estimated value

Authorized:   
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9438RE  
Samp. Description: BLD10W S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111298S1  
Prepared: 11/12/98      %Solids: 84.1  
Sample Size: 35.7 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
Benzo [a] pyrene	<.70	U		1 11/19/98	
Indeno [1, 2, 3-cd] pyrene	<.70	R		1 11/19/98	
Dibenz [a, h] anthracene	<.70	R		1 11/19/98	
Benzo [g, h, i] perylene	<.70	U		1 11/19/98	
2-Fluorophenol (surrogate)	64.%		25-135	1 11/19/98	
Phenol-d5 (surrogate)	83.%		25-135	1 11/19/98	
2,4,6-Tribromophenol (surrogate)	63.%		25-144	1 11/19/98	
Nitrobenzene-d5 (surrogate)	98.%		25-135	1 11/19/98	
2-Fluorobiphenyl (surrogate)	98.%		34-135	1 11/19/98	
Terphenyl-d14 (surrogate)	104.%		32-136	1 11/19/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample size: 5.23 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0057	R		1 11/12/98	
Chloromethane	<.0080	U		1 11/12/98	
Vinyl chloride	<.010	U		1 11/12/98	
Bromomethane	<.0057	U		1 11/12/98	
Chloroethane	<.0057	U		1 11/12/98	
Trichlorofluoromethane	<.0046	U		1 11/12/98	
1,1-Dichloroethene	<.0069	U		1 11/12/98	
Methylene chloride	J .0019	F		1 11/12/98	
trans-1,2-Dichloroethene	<.0034	U		1 11/12/98	
Methyl tert-butyl ether	<.0029	U		1 11/12/98	
1,1-Dichloroethane	<.0023	U		1 11/12/98	
cis-1,2-Dichloroethene	<.0069	U		1 11/12/98	
Bromochloromethane	<.0023	U		1 11/12/98	
Chloroform	<.0023	U		1 11/12/98	
2,2-Dichloropropane	<.023	U		1 11/12/98	
1,2-Dichloroethane	<.0034	U		1 11/12/98	
1,1,1-Trichloroethane	<.0046	U		1 11/12/98	
1,1-Dichloropropene	<.0057	U		1 11/12/98	
Carbon tetrachloride	<.011	U		1 11/12/98	
Benzene	<.0023	U		1 11/12/98	
Dibromomethane	<.011	U		1 11/12/98	
1,2-Dichloropropane	<.0023	U		1 11/12/98	
Trichloroethene	<.011	U		1 11/12/98	
Bromodichloromethane	<.0046	U		1 11/12/98	
cis-1,3-Dichloropropene	<.0057	U		1 11/12/98	
trans-1,3-Dichloropropene	<.0057	U		1 11/12/98	
1,1,2-Trichloroethane	<.0057	U		1 11/12/98	
Toluene	<.0057	U		1 11/12/98	
1,3-Dichloropropane	<.0023	U		1 11/12/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

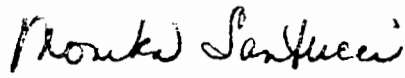
Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample size: 5.23 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0034	U		1 11/12/98	
1,2-Dibromoethane	<.0034	U		1 11/12/98	
Tetrachloroethene	<.0080	U		1 11/12/98	
1,1,1,2-Tetrachloroethane	<.0034	U		1 11/12/98	
Chlorobenzene	<.0023	U		1 11/12/98	
1-Chlorohexane	<.0034	U		1 11/12/98	
Ethylbenzene	<.0034	U		1 11/12/98	
Bromoform	<.0069	U		1 11/12/98	
o-Xylene	<.0057	U		1 11/12/98	
(m+p)-Xylene	J .00070	F		1 11/12/98	
Xylene (total)	J .00070	F		1 11/12/98	
Styrene	<.0029	U		1 11/12/98	
1,1,2,2-Tetrachloroethane	<.0029	U		1 11/12/98	
1,2,3-Trichloropropane	<.023	U		1 11/12/98	
Isopropylbenzene	<.0091	U		1 11/12/98	
Bromobenzene	<.0023	U		1 11/12/98	
n-Propylbenzene	<.0023	U		1 11/12/98	
2-Chlorotoluene	<.0023	U		1 11/12/98	
4-Chlorotoluene	<.0034	U		1 11/12/98	
1,3,5-Trimethylbenzene	<.0034	U		1 11/12/98	
tert-Butylbenzene	<.0080	U		1 11/12/98	
n-Butylbenzene	<.0057	U		1 11/12/98	
1,2,4-Trimethylbenzene	<.0080	U		1 11/12/98	
sec-Butylbenzene	<.0080	U		1 11/12/98	
1,3-Dichlorobenzene	<.0069	U		1 11/12/98	
1,4-Dichlorobenzene	<.0023	U		1 11/12/98	
p-Isopropyltoluene	<.0069	U		1 11/12/98	
1,2-Dichlorobenzene	<.0023	U		1 11/12/98	
1,2-Dibromo-3-chloropropane	<.011	U		1 11/12/98	
1,2,4-Trichlorobenzene	<.0023	U		1 11/12/98	
Naphthalene	<.0057	U		1 11/12/98	

# - Outside control limits J-Estimated value

Authorized:   
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8260**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111298S1  
Prepared: 11/12/98      %Solids: 83.6  
Sample size: 5.23 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0057	U		1	11/12/98	
1,2,3-Trichlorobenzene	<.0023	U		1	11/12/98	
1,2-Dichloroethane-d4 (surrogate)	78.%		52-149	1	11/12/98	
Dibromofluoromethane (surrogate)	80.%		65-135	1	11/12/98	
Toluene-d8 (surrogate)	83.%		65-135	1	11/12/98	
Bromofluorobenzene (surrogate)	87.%		65-135	1	11/12/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439RE  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/16/98

Matrix: Solid  
QC Batch: 111698S1  
%Solids: 83.6  
Sample size: 5.04 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0059	R		1	11/16/98
Chloromethane	<.0083	U		1	11/16/98
Vinyl chloride	<.011	U		1	11/16/98
Bromomethane	<.0059	U		1	11/16/98
Chloroethane	<.0059	U		1	11/16/98
Trichlorofluoromethane	<.0047	U		1	11/16/98
1,1-Dichloroethene	<.0071	U		1	11/16/98
Methylene chloride	<.0024	U		1	11/16/98
trans-1,2-Dichloroethene	<.0036	U		1	11/16/98
Methyl tert-butyl ether	<.0030	U		1	11/16/98
1,1-Dichloroethane	<.0024	U		1	11/16/98
cis-1,2-Dichloroethene	<.0071	U		1	11/16/98
Bromochloromethane	<.0024	U		1	11/16/98
Chloroform	<.0024	U		1	11/16/98
2,2-Dichloropropane	<.024	U		1	11/16/98
1,2-Dichloroethane	<.0036	U		1	11/16/98
1,1,1-Trichloroethane	<.0047	U		1	11/16/98
1,1-Dichloropropene	<.0059	U		1	11/16/98
Carbon tetrachloride	<.012	U		1	11/16/98
Benzene	<.0024	U		1	11/16/98
Dibromomethane	<.012	U		1	11/16/98
1,2-Dichloropropane	<.0024	U		1	11/16/98
Trichloroethene	<.012	U		1	11/16/98
Bromodichloromethane	<.0047	U		1	11/16/98
cis-1,3-Dichloropropene	<.0059	U		1	11/16/98
trans-1,3-Dichloropropene	<.0059	U		1	11/16/98
1,1,2-Trichloroethane	<.0059	U		1	11/16/98
Toluene	<.0059	U		1	11/16/98
1,3-Dichloropropane	<.0024	U		1	11/16/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439RE  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/16/98  
Matrix: Solid  
QC Batch: 111698S1  
%Solids: 83.6  
Sample size: 5.04 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0036	U		1 11/16/98	
1,2-Dibromoethane	<.0036	U		1 11/16/98	
Tetrachloroethene	<.0083	U		1 11/16/98	
1,1,1,2-Tetrachloroethane	<.0036	U		1 11/16/98	
Chlorobenzene	<.0024	U		1 11/16/98	
1-Chlorohexane	<.0036	U		1 11/16/98	
Ethylbenzene	<.0036	U		1 11/16/98	
Bromoform	<.0071	U		1 11/16/98	
o-Xylene	<.0059	U		1 11/16/98	
(m+p)-Xylene	J .0014	F		1 11/16/98	
Xylene (total)	J .0014	F		1 11/16/98	
Styrene	<.0030	U		1 11/16/98	
1,1,2,2-Tetrachloroethane	<.0030	U		1 11/16/98	
1,2,3-Trichloropropane	<.024	U		1 11/16/98	
Isopropylbenzene	<.0095	U		1 11/16/98	
Bromobenzene	<.0024	U		1 11/16/98	
n-Propylbenzene	<.0024	U		1 11/16/98	
2-Chlorotoluene	<.0024	U		1 11/16/98	
4-Chlorotoluene	<.0036	U		1 11/16/98	
1,3,5-Trimethylbenzene	<.0036	U		1 11/16/98	
tert-Butylbenzene	<.0083	U		1 11/16/98	
n-Butylbenzene	<.0059	U		1 11/16/98	
1,2,4-Trimethylbenzene	<.0083	U		1 11/16/98	
sec-Butylbenzene	<.0083	U		1 11/16/98	
1,3-Dichlorobenzene	<.0071	U		1 11/16/98	
1,4-Dichlorobenzene	<.0024	U		1 11/16/98	
p-Isopropyltoluene	<.0071	U		1 11/16/98	
1,2-Dichlorobenzene	<.0024	U		1 11/16/98	
1,2-Dibromo-3-chloropropane	<.012	U		1 11/16/98	
1,2,4-Trichlorobenzene	<.0024	U		1 11/16/98	
Naphthalene	<.0059	U		1 11/16/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8260**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439RE  
Samp. Description: BLD10E S01  
Instrument: HP5973 GCMS#3  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111698S1  
Prepared: 11/16/98      %Solids: 83.6  
Sample size: 5.04 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0059	U		1	11/16/98	
1,2,3-Trichlorobenzene	<.0024	U		1	11/16/98	
1,2-Dichloroethane-d4 (surrogate)	81.%		52-149	1	11/16/98	
Dibromofluoromethane (surrogate)	83.%		65-135	1	11/16/98	
Toluene-d8 (surrogate)	82.%		65-135	1	11/16/98	
Bromofluorobenzene (surrogate)	89.%		65-135	1	11/16/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8270**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample Size: 35.9 g

Parameter	Result	Qual	Surrog		
			Limits	Dilution	Analyzed Note
bis(2-Chloroethyl) ether	<.70	U			1 11/18/98
Phenol	<.30	U			1 11/18/98
2-Chlorophenol	<.30	U			1 11/18/98
1,3-Dichlorobenzene	<.70	U			1 11/18/98
1,4-Dichlorobenzene	<.70	U			1 11/18/98
Benzyl alcohol	<1.3	U			1 11/18/98
1,2-Dichlorobenzene	<.70	U			1 11/18/98
2-Methylphenol	<.30	U			1 11/18/98
bis(2-Chloroisopropyl) ether	<.70	U			1 11/18/98
4-Methylphenol	<.30	U			1 11/18/98
N-Nitroso-di-n-propylamine	<.70	U			1 11/18/98
Hexachloroethane	<.70	U			1 11/18/98
Nitrobenzene	<.70	U			1 11/18/98
Isophorone	<.70	U			1 11/18/98
2-Nitrophenol	<.30	U			1 11/18/98
2,4-Dimethylphenol	<.30	U			1 11/18/98
bis(2-Chloroethoxy)methane	<.70	U			1 11/18/98
Benzoic acid	<1.6	U			1 11/18/98
2,4-Dichlorophenol	<.30	U			1 11/18/98
1,2,4-Trichlorobenzene	<.70	U			1 11/18/98
Naphthalene	<.70	U			1 11/18/98
4-Chloroaniline	<1.3	R			1 11/18/98
Hexachlorobutadiene	<.70	U			1 11/18/98
4-Chloro-3-methylphenol	<1.3	U			1 11/18/98
2-Methylnaphthalene	<.70	U			1 11/18/98
Hexachlorocyclopentadiene	<.70	U			1 11/18/98
2,4,6-Trichlorophenol	<.30	U			1 11/18/98
2,4,5-Trichlorophenol	<3.3	U			1 11/18/98
2-Chloronaphthalene	<.70	U			1 11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 83.6  
Sample Size: 35.9 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed Note
2-Nitroaniline	<3.3	U	1 11/18/98
Dimethyl phthalate	<.70	U	1 11/18/98
Acenaphthylene	<.70	U	1 11/18/98
2,6-Dinitrotoluene	<.70	U	1 11/18/98
3-Nitroaniline	<3.3	U	1 11/18/98
Acenaphthene	<.70	U	1 11/18/98
2,4-Dinitrophenol	<3.3	U	1 11/18/98
4-Nitrophenol	<1.6	U	1 11/18/98
Dibenzofuran	<.70	U	1 11/18/98
2,4-Dinitrotoluene	<.70	U	1 11/18/98
Diethyl phthalate	<.70	U	1 11/18/98
Fluorene	<.70	U	1 11/18/98
4-Chlorophenyl phenyl ether	<.70	U	1 11/18/98
4-Nitroaniline	<3.3	U	1 11/18/98
4,6-Dinitro-2-methylphenol	<3.3	U	1 11/18/98
N-Nitrosodiphenylamine	<.70	U	1 11/18/98
4-Bromophenyl phenyl ether	<.70	U	1 11/18/98
Hexachlorobenzene	<.70	U	1 11/18/98
Pentachlorophenol	<3.3	U	1 11/18/98
Phenanthrene	<.70	U	1 11/18/98
Anthracene	<.70	U	1 11/18/98
Di-n-butyl phthalate	<.70	U	1 11/18/98
Fluoranthene	<.70	U	1 11/18/98
Pyrene	<.70	U	1 11/18/98
Butyl benzyl phthalate	<.70	U	1 11/18/98
3,3'-Dichlorobenzidine	<1.3	M	1 11/18/98
Benzo[a]anthracene	<.70	U	1 11/18/98
Chrysene	<.70	U	1 11/18/98
bis(2-Ethylhexyl)phthalate	J .050	F	1 11/18/98
Di-n-octyl phthalate	<.70	U	1 11/18/98
Benzo[b]fluoranthene	<.70	U	1 11/18/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9439  
Samp. Description: BLD10E S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98 Matrix: Solid  
Received: 11/07/98 QC Batch: 111298S1  
Prepared: 11/12/98 %Solids: 83.6  
Sample Size: 35.9 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo [a] pyrene	<.70	U			1	11/18/98
Indeno [1,2,3-cd] pyrene	<.70	U			1	11/18/98
Dibenz [a,h] anthracene	<.70	U			1	11/18/98
Benzo [g,h,i] perylene	<.70	U			1	11/18/98
2-Fluorophenol (surrogate)	75.%		25-135		1	11/18/98
Phenol-d5 (surrogate)	89.%		25-135		1	11/18/98
2,4,6-Tribromophenol (surrogate)	69.%		25-144		1	11/18/98
Nitrobenzene-d5 (surrogate)	89.%		25-135		1	11/18/98
2-Fluorobiphenyl (surrogate)	94.%		34-135		1	11/18/98
Terphenyl-d14 (surrogate)	110.%		32-136		1	11/18/98

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/20/98  
Matrix: Solid  
QC Batch: 112098S2  
%Solids: 82.6  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0061	R		1 11/20/98	
Chloromethane	<.0085	R		1 11/20/98	
Vinyl chloride	<.011	U		1 11/20/98	
Bromomethane	<.0061	R		1 11/20/98	
Chloroethane	<.0061	U		1 11/20/98	
Trichlorofluoromethane	<.0048	U		1 11/20/98	
1,1-Dichloroethene	<.0073	U		1 11/20/98	
Methylene chloride	J .00070	F		1 11/20/98	
trans-1,2-Dichloroethene	<.0036	U		1 11/20/98	
Methyl tert-butyl ether	<.0030	U		1 11/20/98	
1,1-Dichloroethane	<.0024	U		1 11/20/98	
cis-1,2-Dichloroethene	<.0073	U		1 11/20/98	
Bromochloromethane	<.0024	U		1 11/20/98	
Chloroform	<.0024	U		1 11/20/98	
2,2-Dichloropropane	<.024	U		1 11/20/98	
1,2-Dichloroethane	<.0036	U		1 11/20/98	
1,1,1-Trichloroethane	<.0048	U		1 11/20/98	
1,1-Dichloropropene	<.0061	U		1 11/20/98	
Carbon tetrachloride	<.012	U		1 11/20/98	
Benzene	<.0024	U		1 11/20/98	
Dibromomethane	<.012	U		1 11/20/98	
1,2-Dichloropropane	<.0024	U		1 11/20/98	
Trichloroethene	<.012	U		1 11/20/98	
Bromodichloromethane	<.0048	U		1 11/20/98	
cis-1,3-Dichloropropene	<.0061	U		1 11/20/98	
trans-1,3-Dichloropropene	<.0061	U		1 11/20/98	
1,1,2-Trichloroethane	<.0061	U		1 11/20/98	
Toluene	<.0061	U		1 11/20/98	
1,3-Dichloropropane	<.0024	U		1 11/20/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/20/98  
Matrix: Solid  
QC Batch: 112098S2  
%Solids: 82.6  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Analyzed	Notes
			Limits	Dilution		
Dibromochloromethane	<.0036	U			1	11/20/98
1,2-Dibromoethane	<.0036	U			1	11/20/98
Tetrachloroethene	<.0085	U			1	11/20/98
1,1,1,2-Tetrachloroethane	<.0036	U			1	11/20/98
Chlorobenzene	<.0024	U			1	11/20/98
1-Chlorohexane	<.0036	U			1	11/20/98
Ethylbenzene	<.0036	U			1	11/20/98
Bromofcsm	<.0073	U			1	11/20/98
o-Xylene	<.0061	U			1	11/20/98
(m+p)-Xylene	<.0048	U			1	11/20/98
Xylene (total)	<.0061	U			1	11/20/98
Styrene	<.0030	U			1	11/20/98
1,1,2,2-Tetrachloroethane	<.0030	U			1	11/20/98
1,2,3-Trichloropropane	<.024	U			1	11/20/98
Isopropylbenzene	<.0097	U			1	11/20/98
Bromobenzene	<.0024	U			1	11/20/98
n-Propylbenzene	<.0024	U			1	11/20/98
2-Chlorotoluene	<.0024	U			1	11/20/98
4-Chlorotoluene	<.0036	U			1	11/20/98
1,3,5-Trimethylbenzene	<.0036	U			1	11/20/98
tert-Butylbenzene	<.0085	U			1	11/20/98
n-Butylbenzene	<.0061	U			1	11/20/98
1,2,4-Trimethylbenzene	<.0085	U			1	11/20/98
sec-Butylbenzene	<.0085	U			1	11/20/98
1,3-Dichlorobenzene	<.0073	U			1	11/20/98
1,4-Dichlorobenzene	<.0024	U			1	11/20/98
p-Isopropyltoluene	<.0073	U			1	11/20/98
1,2-Dichlorobenzene	<.0024	U			1	11/20/98
1,2-Dibromo-3-chloropropane	<.012	U			1	11/20/98
1,2,4-Trichlorobenzene	<.0024	U			1	11/20/98
Naphthalene	<.0061	U			1	11/20/98

# - Outside control limits J-Estimated value

Authorized: 

Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 112098S2  
Prepared: 11/20/98      %Solids: 82.6  
Sample size: 5 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0061	U		1	11/20/98	
1,2,3-Trichlorobenzene	<.0024	U		1	11/20/98	
1,2-Dichloroethane-d4 (surrogate)	103.%		52-149	1	11/20/98	
Dibromofluoromethane (surrogate)	110.%		65-135	1	11/20/98	
Toluene-d8 (surrogate)	103.%		65-135	1	11/20/98	
Bromofluorobenzene (surrogate)	107.%		65-135	1	11/20/98	

Notes:

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3SO1  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<6.7	U		10 11/11/98	
Phenol	<2.9	U		10 11/11/98	
2-Chlorophenol	<2.9	U		10 11/11/98	
1,3-Dichlorobenzene	<6.7	U		10 11/11/98	
1,4-Dichlorobenzene	<6.7	U		10 11/11/98	
Benzyl alcohol	<13.	U		10 11/11/98	
1,2-Dichlorobenzene	<6.7	U		10 11/11/98	
2-Methylphenol	<2.9	U		10 11/11/98	
bis(2-Chloroisopropyl) ether	<6.7	U		10 11/11/98	
4-Methylphenol	<2.9	U		10 11/11/98	
N-Nitroso-di-n-propylamine	<6.7	U		10 11/11/98	
Hexachloroethane	<6.7	U		10 11/11/98	
Nitrobenzene	<6.7	U		10 11/11/98	
Isophorone	<6.7	U		10 11/11/98	
2-Nitrophenol	<2.9	U		10 11/11/98	
2,4-Dimethylphenol	<2.9	U		10 11/11/98	
bis(2-Chloroethoxy) methane	<6.7	U		10 11/11/98	
Benzoic acid	<15.	R		10 11/11/98	
2,4-Dichlorophenol	<2.9	U		10 11/11/98	
1,2,4-Trichlorobenzene	<6.7	U		10 11/11/98	
Naphthalene	<6.7	U		10 11/11/98	
4-Chloroaniline	<13.	R		10 11/11/98	
Hexachlorobutadiene	<6.7	U		10 11/11/98	
4-Chloro-3-methylphenol	<13.	U		10 11/11/98	
2-Methylnaphthalene	<6.7	U		10 11/11/98	
Hexachlorocyclopentadiene	<6.7	U		10 11/11/98	
2,4,6-Trichlorophenol	<2.9	U		10 11/11/98	
2,4,5-Trichlorophenol	<32.	U		10 11/11/98	
2-Chloronaphthalene	<6.7	U		10 11/11/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3SO1  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog Limits Dilution Analyzed Note
2-Nitroaniline	<32.	U	10 11/11/98
Dimethyl phthalate	<6.7	U	10 11/11/98
Acenaphthylene	<6.7	U	10 11/11/98
2,6-Dinitrotoluene	<6.7	U	10 11/11/98
3-Nitroaniline	<32.	U	10 11/11/98
Acenaphthene	<6.7	U	10 11/11/98
2,4-Dinitrophenol	<32.	U	10 11/11/98
4-Nitrophenol	<15.	U	10 11/11/98
Dibenzofuran	<6.7	U	10 11/11/98
2,4-Dinitrotoluene	<6.7	U	10 11/11/98
Diethyl phthalate	<6.7	U	10 11/11/98
Fluorene	<6.7	U	10 11/11/98
4-Chlorophenyl phenyl ether	<6.7	U	10 11/11/98
4-Nitroaniline	<32.	U	10 11/11/98
4,6-Dinitro-2-methylphenol	<32.	U	10 11/11/98
N-Nitrosodiphenylamine	<6.7	U	10 11/11/98
4-Bromophenyl phenyl ether	<6.7	U	10 11/11/98
Hexachlorobenzene	<6.7	U	10 11/11/98
Pentachlorophenol	<32.	U	10 11/11/98
Phenanthrene	J .50	F	10 11/11/98
Anthracene	<6.7	U	10 11/11/98
Di-n-butyl phthalate	<6.7	U	10 11/11/98
Fluoranthene	J 1.4	F	10 11/11/98
Pyrene	J 2.1	R	10 11/11/98
Butyl benzyl phthalate	<6.7	R	10 11/11/98
3,3'-Dichlorobenzidine	<13.	R	10 11/11/98
Benzo[a]anthracene	J 1.0	R	10 11/11/98
Chrysene	J .90	R	10 11/11/98
bis(2-Ethylhexyl)phthalate	<6.7	R	10 11/11/98
Di-n-octyl phthalate	<6.7	R	10 11/11/98
Benzo[b]fluoranthene	J 1.2	R	10 11/11/98

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3SO1  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo[a]pyrene	J .72	R		10	11/11/98	
Indeno[1,2,3-cd]pyrene	<6.7	R		10	11/11/98	
Dibenz[a,h]anthracene	<6.7	R		10	11/11/98	
Benzo[g,h,i]perylene	J .40	R		10	11/11/98	
2-Fluorophenol (surrogate)	82.%		25-135	10	11/11/98	
Phenol-d5 (surrogate)	84.%		25-135	10	11/11/98	
2,4,6-Tribromophenol (surrogate)	44.%		25-144	10	11/11/98	
Nitrobenzene-d5 (surrogate)	84.%		25-135	10	11/11/98	
2-Fluorobiphenyl (surrogate)	93.%		34-135	10	11/11/98	
Terphenyl-d14 (surrogate)	127.%		32-136	10	11/11/98	

Notes:

Elevated detection limit due to extract viscosity.

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308RE  
Samp. Description: 59UST3SO1  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
bis(2-Chloroethyl) ether	<6.7	U		10 11/18/98	
Phenol	<2.9	U		10 11/18/98	
2-Chlorophenol	<2.9	U		10 11/18/98	
1,3-Dichlorobenzene	<6.7	U		10 11/18/98	
1,4-Dichlorobenzene	<6.7	U		10 11/18/98	
Benzyl alcohol	<13.	U		10 11/18/98	
1,2-Dichlorobenzene	<6.7	U		10 11/18/98	
2-Methylphenol	<2.9	U		10 11/18/98	
bis(2-Chloroisopropyl) ether	<6.7	U		10 11/18/98	
4-Methylphenol	<2.9	U		10 11/18/98	
N-Nitroso-di-n-propylamine	<6.7	U		10 11/18/98	
Hexachloroethane	<6.7	U		10 11/18/98	
Nitrobenzene	<6.7	U		10 11/18/98	
Isophorone	<6.7	U		10 11/18/98	
2-Nitrophenol	<2.9	U		10 11/18/98	
2,4-Dimethylphenol	<2.9	U		10 11/18/98	
bis(2-Chloroethoxy)methane	<6.7	U		10 11/18/98	
Benzoic acid	<15.	U		10 11/18/98	
2,4-Dichlorophenol	<2.9	U		10 11/18/98	
1,2,4-Trichlorobenzene	<6.7	U		10 11/18/98	
Naphthalene	<6.7	U		10 11/18/98	
4-Chloroaniline	<13.	R		10 11/18/98	
Hexachlorobutadiene	<6.7	U		10 11/18/98	
4-Chloro-3-methylphenol	<13.	U		10 11/18/98	
2-Methylnaphthalene	<6.7	U		10 11/18/98	
Hexachlorocyclopentadiene	<6.7	U		10 11/18/98	
2,4,6-Trichlorophenol	<2.9	U		10 11/18/98	
2,4,5-Trichlorophenol	<32.	U		10 11/18/98	
2-Chloronaphthalene	<6.7	U		10 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308RE  
Samp. Description: 59UST3SO1  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/07/98  
Matrix: Solid  
QC Batch: 110798S1  
%Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<32.	U		10 11/18/98	
Dimethyl phthalate	<6.7	U		10 11/18/98	
Acenaphthylene	<6.7	U		10 11/18/98	
2,6-Dinitrotoluene	<6.7	U		10 11/18/98	
3-Nitroaniline	<32.	U		10 11/18/98	
Acenaphthene	<6.7	U		10 11/18/98	
2,4-Dinitrophenol	<32.	U		10 11/18/98	
4-Nitrophenol	<15.	U		10 11/18/98	
Dibenzofuran	<6.7	U		10 11/18/98	
2,4-Dinitrotoluene	<6.7	U		10 11/18/98	
Diethyl phthalate	<6.7	U		10 11/18/98	
Fluorene	<6.7	U		10 11/18/98	
4-Chlorophenyl phenyl ether	<6.7	U		10 11/18/98	
4-Nitroaniline	<32.	U		10 11/18/98	
4,6-Dinitro-2-methylphenol	<32.	U		10 11/18/98	
N-Nitrosodiphenylamine	<6.7	U		10 11/18/98	
4-Bromophenyl phenyl ether	<6.7	U		10 11/18/98	
Hexachlorobenzene	<6.7	U		10 11/18/98	
Pentachlorophenol	<32.	U		10 11/18/98	
Phenanthrene	J .50	F		10 11/18/98	
Anthracene	<6.7	U		10 11/18/98	
Di-n-butyl phthalate	<6.7	U		10 11/18/98	
Fluoranthene	J 1.3	F		10 11/18/98	
Pyrene	J 3.3	R		10 11/18/98	
Butyl benzyl phthalate	<6.7	R		10 11/18/98	
3,3'-Dichlorobenzidine	<13.	R		10 11/18/98	
Benzo[a]anthracene	J 1.1	R		10 11/18/98	
Chrysene	J .98	R		10 11/18/98	
bis(2-Ethylhexyl)phthalate	<6.7	R		10 11/18/98	
Di-n-octyl phthalate	<6.7	R		10 11/18/98	
Benzo[b]fluoranthene	J .95	R		10 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8270**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308RE  
Samp. Description: 59UST3S01  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/04/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 110798S1  
Prepared: 11/07/98      %Solids: 90.3  
Sample Size: 34.5 g

Parameter	Result	Qual	Surrog Limits	Dilution	Analyzed	Note
Benzo[a]pyrene	J .73	R		10	11/18/98	
Indeno[1,2,3-cd]pyrene	<6.7	R		10	11/18/98	
Dibenz[a,h]anthracene	<6.7	R		10	11/18/98	
Benzo[g,h,i]perylene	<6.7	R		10	11/18/98	
2-Fluorophenol (surrogate)	88.%		25-135	10	11/18/98	
Phenol-d5 (surrogate)	92.%		25-135	10	11/18/98	
2,4,6-Tribromophenol (surrogate)	71.%		25-144	10	11/18/98	
Nitrobenzene-d5 (surrogate)	86.%		25-135	10	11/18/98	
2-Fluorobiphenyl (surrogate)	86.%		34-135	10	11/18/98	
Terphenyl-d14 (surrogate)	200.% #		32-136	10	11/18/98	

Notes:

Elevated detection limit due to extract viscosity.

- Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 82.6  
Sample Size: 36.3 g

Parameter	Result	Qual	Surrog			Note
			Limits	Dilution	Analyzed	
bis(2-Chloroethyl) ether	<.70	U			1 11/18/98	
Phenol	<.30	U			1 11/18/98	
2-Chlorophenol	<.30	U			1 11/18/98	
1,3-Dichlorobenzene	<.70	U			1 11/18/98	
1,4-Dichlorobenzene	<.70	U			1 11/18/98	
Benzyl alcohol	<1.3	U			1 11/18/98	
1,2-Dichlorobenzene	<.70	U			1 11/18/98	
2-Methylphenol	<.30	U			1 11/18/98	
bis(2-Chloroisopropyl) ether	<.70	U			1 11/18/98	
4-Methylphenol	<.30	U			1 11/18/98	
N-Nitroso-di-n-propylamine	<.70	U			1 11/18/98	
Hexachloroethane	<.70	U			1 11/18/98	
Nitrobenzene	<.70	U			1 11/18/98	
Isophorone	<.70	U			1 11/18/98	
2-Nitrophenol	<.30	U			1 11/18/98	
2,4-Dimethylphenol	<.30	U			1 11/18/98	
bis(2-Chloroethoxy) methane	<.70	U			1 11/18/98	
Benzoic acid	<1.6	U			1 11/18/98	
2,4-Dichlorophenol	<.30	U			1 11/18/98	
1,2,4-Trichlorobenzene	<.70	U			1 11/18/98	
Naphthalene	<.70	U			1 11/18/98	
4-Chloroaniline	<1.3	R			1 11/18/98	
Hexachlorobutadiene	<.70	U			1 11/18/98	
4-Chloro-3-methylphenol	<1.3	U			1 11/18/98	
2-Methylnaphthalene	<.70	U			1 11/18/98	
Hexachlorocyclopentadiene	<.70	U			1 11/18/98	
2,4,6-Trichlorophenol	<.30	U			1 11/18/98	
2,4,5-Trichlorophenol	<3.3	U			1 11/18/98	
2-Chloronaphthalene	<.70	U			1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8270**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98  
Received: 11/07/98  
Prepared: 11/12/98  
Matrix: Solid  
QC Batch: 111298S1  
%Solids: 82.6  
Sample Size: 36.3 g

Parameter	Result	Qual	Surrog		Note
			Limits	Dilution Analyzed	
2-Nitroaniline	<3.3	U		1 11/18/98	
Dimethyl phthalate	<.70	U		1 11/18/98	
Acenaphthylene	<.70	U		1 11/18/98	
2,6-Dinitrotoluene	<.70	U		1 11/18/98	
3-Nitroaniline	<3.3	U		1 11/18/98	
Acenaphthene	<.70	U		1 11/18/98	
2,4-Dinitrophenol	<3.3	U		1 11/18/98	
4-Nitrophenol	<1.6	U		1 11/18/98	
Dibenzofuran	<.70	U		1 11/18/98	
2,4-Dinitrotoluene	<.70	U		1 11/18/98	
Diethyl phthalate	<.70	U		1 11/18/98	
Fluorene	<.70	U		1 11/18/98	
4-Chlorophenyl phenyl ether	<.70	U		1 11/18/98	
4-Nitroaniline	<3.3	U		1 11/18/98	
4,6-Dinitro-2-methylphenol	<3.3	U		1 11/18/98	
N-Nitrosodiphenylamine	<.70	U		1 11/18/98	
4-Bromophenyl phenyl ether	<.70	U		1 11/18/98	
Hexachlorobenzene	<.70	U		1 11/18/98	
Pentachlorophenol	<3.3	U		1 11/18/98	
Phenanthrene	<.70	U		1 11/18/98	
Anthracene	<.70	U		1 11/18/98	
Di-n-butyl phthalate	<.70	U		1 11/18/98	
Fluoranthene	<.70	U		1 11/18/98	
Pyrene	<.70	U		1 11/18/98	
Butyl benzyl phthalate	<.70	U		1 11/18/98	
3,3'-Dichlorobenzidine	<1.3	U		1 11/18/98	
Benzo[a]anthracene	<.70	U		1 11/18/98	
Chrysene	<.70	U		1 11/18/98	
bis(2-Ethylhexyl)phthalate	J .050	F		1 11/18/98	
Di-n-octyl phthalate	<.70	U		1 11/18/98	
Benzo[b]fluoranthene	<.70	U		1 11/18/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8270

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9440  
Samp. Description: BLD10E S02  
Instrument: HP5972A GCMS#5  
Units: mg/Kg Dry weight  
Number of analytes: 70

Collected: 11/06/98      Matrix: Solid  
Received: 11/07/98      QC Batch: 111298S1  
Prepared: 11/12/98      %Solids: 82.6  
Sample Size: 36.3 g

Parameter	Result	Qual	Surrog		Analyzed	Note
			Limits	Dilution		
Benzo [a] pyrene	<.70	U			1	11/18/98
Indeno [1,2,3-cd] pyrene	<.70	U			1	11/18/98
Dibenz [a,h] anthracene	<.70	U			1	11/18/98
Benzo [g,h,i] perylene	<.70	U			1	11/18/98
2-Fluorophenol (surrogate)	80.%		25-135		1	11/18/98
Phenol-d5 (surrogate)	94.%		25-135		1	11/18/98
2,4,6-Tribromophenol (surrogate)	74.%		25-144		1	11/18/98
Nitrobenzene-d5 (surrogate)	92.%		25-135		1	11/18/98
2-Fluorobiphenyl (surrogate)	98.%		34-135		1	11/18/98
Terphenyl-d14 (surrogate)	107.%		32-136		1	11/18/98

Notes:

\* - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**Attachment 2: Analytical Data**  
**Former 4,000-Gallon UST**



# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3SO1  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/20/98  
Matrix: Solid  
QC Batch: 112098S2  
%Solids: 90.3  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dichlorodifluoromethane	<.0055	R		1 11/20/98	
Chloromethane	<.0078	R		1 11/20/98	
Vinyl chloride	<.010	R		1 11/20/98	
Bromomethane	<.0055	R		1 11/20/98	
Chloroethane	<.0055	R		1 11/20/98	
Trichlorofluoromethane	<.0044	R		1 11/20/98	
1,1-Dichloroethene	<.0066	R		1 11/20/98	
Methylene chloride	<.0022	R		1 11/20/98	
trans-1,2-Dichloroethene	<.0033	R		1 11/20/98	
Methyl tert-butyl ether	<.0028	R		1 11/20/98	
1,1-Dichloroethane	<.0022	R		1 11/20/98	
cis-1,2-Dichloroethene	<.0066	R		1 11/20/98	
Bromochloromethane	<.0022	R		1 11/20/98	
Chloroform	<.0022	R		1 11/20/98	
2,2-Dichloropropane	<.022	R		1 11/20/98	
1,2-Dichloroethane	<.0033	R		1 11/20/98	
1,1,1-Trichloroethane	<.0044	R		1 11/20/98	
1,1-Dichloropropene	<.0055	R		1 11/20/98	
Carbon tetrachloride	<.011	R		1 11/20/98	
Benzene	<.0022	R		1 11/20/98	
Dibromomethane	<.011	R		1 11/20/98	
1,2-Dichloropropane	<.0022	R		1 11/20/98	
Trichloroethene	<.011	R		1 11/20/98	
Bromodichloromethane	<.0044	R		1 11/20/98	
cis-1,3-Dichloropropene	<.0055	R		1 11/20/98	
trans-1,3-Dichloropropene	<.0055	R		1 11/20/98	
1,1,2-Trichloroethane	<.0055	R		1 11/20/98	
Toluene	<.0055	R		1 11/20/98	
1,3-Dichloropropane	<.0022	R		1 11/20/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3SO1  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/04/98  
Received: 11/06/98  
Prepared: 11/20/98  
Matrix: Solid  
QC Batch: 112098S2  
%Solids: 90.3  
Sample size: 5 g

Parameter	Result	Qual	Surrog		Notes
			Limits	Dilution Analyzed	
Dibromochloromethane	<.0033	R		1 11/20/98	
1,2-Dibromoethane	<.0033	R		1 11/20/98	
Tetrachloroethene	<.0078	R		1 11/20/98	
1,1,1,2-Tetrachloroethane	<.0033	R		1 11/20/98	
Chlorobenzene	<.0022	R		1 11/20/98	
1-Chlorohexane	<.0033	R		1 11/20/98	
Ethylbenzene	<.0033	R		1 11/20/98	
Bromoform	<.0066	R		1 11/20/98	
o-Xylene	<.0055	R		1 11/20/98	
(m+p)-Xylene	<.0044	R		1 11/20/98	
Xylene (total)	<.0055	R		1 11/20/98	
Styrene	<.0028	R		1 11/20/98	
1,1,2,2-Tetrachloroethane	<.0028	R		1 11/20/98	
1,2,3-Trichloropropane	<.022	R		1 11/20/98	
Isopropylbenzene	<.0089	R		1 11/20/98	
Bromobenzene	<.0022	R		1 11/20/98	
n-Propylbenzene	<.0022	R		1 11/20/98	
2-Chlorotoluene	<.0022	R		1 11/20/98	
4-Chlorotoluene	<.0033	R		1 11/20/98	
1,3,5-Trimethylbenzene	<.0033	R		1 11/20/98	
tert-Butylbenzene	<.0078	R		1 11/20/98	
n-Butylbenzene	<.0055	R		1 11/20/98	
1,2,4-Trimethylbenzene	<.0078	R		1 11/20/98	
sec-Butylbenzene	<.0078	R		1 11/20/98	
1,3-Dichlorobenzene	<.0066	R		1 11/20/98	
1,4-Dichlorobenzene	<.0022	R		1 11/20/98	
p-Isopropyltoluene	<.0066	R		1 11/20/98	
1,2-Dichlorobenzene	<.0022	R		1 11/20/98	
1,2-Dibromo-3-chloropropane	<.011	R		1 11/20/98	
1,2,4-Trichlorobenzene	<.0022	R		1 11/20/98	
Naphthalene	<.0055	R		1 11/20/98	

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci

**O'Brien & Gere  
Laboratories, Inc.**

**Analytical Results  
Method: 8260**

Client: Earth Tech Inc.  
Project: Air Force Plant 59 #27378  
Proj. Desc: Johnson City, NY

Job No.: 6780.004.517  
Certification NY No.: 10155

Sample: J9308  
Samp. Description: 59UST3S01  
Instrument: HP5970 GC/MS#2  
Units: mg/Kg Dry weight  
Number of analytes: 66

Collected: 11/04/98      Matrix: Solid  
Received: 11/06/98      QC Batch: 112098S2  
Prepared: 11/20/98      %Solids: 90.3  
Sample size: 5 g

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Surrog</u> <u>Limits</u>	<u>Dilution</u>	<u>Analyzed</u>	<u>Notes</u>
Hexachlorobutadiene	<.0055	R			1	11/20/98
1,2,3-Trichlorobenzene	<.0022	R			1	11/20/98
1,2-Dichloroethane-d4 (surrogate)	103.%		52-149		1	11/20/98
Dibromofluoromethane (surrogate)	111.%		65-135		1	11/20/98
Toluene-d8 (surrogate)	105.%		65-135		1	11/20/98
Bromofluorobenzene (surrogate)	103.%		65-135		1	11/20/98

Notes:

Analysis performed beyond prescribed holding time.

# - Outside control limits J-Estimated value

Authorized: Monika Santucci  
Date: December 7, 1998      Monika Santucci