

**CROSS COUNTY SANITATION/KESSEMAN LANDFILL
OPERATION, MAINTENANCE AND MONITORING**

**OM&M REPORT
(2005 - 2007)**

Site No. 3-40-011

Prepared for:

**DIVISION OF ENVIRONMENTAL REMEDIATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 BROADWAY, ALBANY, NY 12233-7012**

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November 2007

**CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M
OPERATIONS, MAINTENANCE AND MONITORING
OM&M REPORT – November 2007
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CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M OPERATIONS, MAINTENANCE AND MONITORING OM&M REPORT

O'Brien & Gere Engineers, Inc. (O'Brien & Gere), with Iyer Environmental Group, PLLC (IEG) as a subconsultant, initiated routine operation, maintenance and monitoring (OM&M) of the Cross County Sanitation (a.k.a. Kessman) Landfill located on Cornwall Hill Road in the Town of Patterson in Putnam County, New York (see Figure 1) in February 2002 under a Standby Contract Work Assignment. Site conditions were assessed and necessary field activities, repairs and upgrades were identified. Over a three year period from 2002 to 2005, activities included monthly inspections and field measurements, sampling and analysis of site groundwater, surface water and leachate seeps, topographic survey update, biota and sediment sampling, leachate management with off-site disposal as well as on-site treatment, a tracer study to locate leachate seeps, and groundwater flow modeling flow. These activities were documented in an OM&M Report dated June 2005.

The OM&M work was continued at a reduced frequency by O'Brien & Gere and IEG under the same work assignment from 2005 through November 2007. Activities during this period included site inspections, groundwater and surface water monitoring, biota and sediment sampling, and disposal of used carbon drums. This report presents the field and laboratory data collected over these two years, and also incorporates information from previous monitoring events.

1. LANDFILL BACKGROUND

The 10-acre Kessman Landfill had accepted solid and industrial wastes of unknown types and quantities. This landfill was capped in 1995 following the removal of approximately sixty industrial waste drums and contaminated soils, and restoration of the affected wetlands. The town landfill is located to the west of the Kessman Landfill. The Kessman Landfill is now fenced and has a locked gate at the site entrance to restrict vehicles.

Landfill features, including groundwater and surface water sampling locations, are shown on the updated site topographic map. The passive vents are clearly marked and the landfill has moderate methane generation. During previous landfill gas monitoring, no H₂S was detected and oxygen was around 8 ppm in the landfill gas. The leachate collection system needed proper evaluation, including contaminant migration off-site. The leachate collection tank is 12 feet deep and 6 feet in diameter with water at a depth of approximately 6 feet. The laterals have overflow provisions every 100 feet. The site required active leachate pumping due to seepage from the landfill to the adjacent wetland. The swamp sediment has shown low level PCB contamination as a result of residuals from the wetland remediation during landfill closure. Additional background information and site photos are included in Attachment A.

2. OM&M DATA

Over the last two years, OBG/IEG completed four rounds of groundwater and surface water monitoring (twelve total over the last five years), and two rounds of biota sampling. Field data from these monitoring events are included as standard forms in Attachment B. Daily field measurements are transcribed into Form 1s for the inspection/monitoring events. Field activities are also summarized as part of the Form 1s. Form 2 tabulates groundwater purging/sampling data, while groundwater elevation data are included in Form 3 along with historical data for comparison. Detected analytical results are tabulated in Form 4s from the groundwater and surface water sampling events. Groundwater contour plots prepared using SURFER software are presented in Attachment C.

The revised and updated survey information for the wells from August 2002 is included in Form 5, A checklist of field equipment and supplies used for the OM&M inspection and monitoring events is provided in Form 6.

Table 1 lists the scheduled analytical parameters for groundwater, surface water and leachate monitoring. Concentrations of total volatile organic compounds (VOCs) in groundwater and surface water/leachate seeps around the site are summarized in Table 2, and includes historical data from previous monitoring events (from 1999). The trends in the VOC data in Table 2 for selected wells and surface water/leachate seep locations with elevated concentrations are also graphically illustrated on Figures 4A, 4B, and 4C.

The results of the biota sampling performed in June 2005 and August 2007 are included as separate reports in Attachments D-1 and D-2 respectively. The biota data is also summarized in Table 3.

3. GROUNDWATER, SURFACE WATER AND LEACHATE

Water Levels

As seen on Form 3 (Attachment B), the two upgradient wells (MW-1A and MW-1B), located up the hill on the residential property on Cornwall Road, have the most variation in groundwater level, changing by as much as 13.5 feet in MW-1A and 9.6 feet in MW-1B. The groundwater levels in the other wells, which are located along the downgradient side of the landfill, varied between 1.3 and 8.2 feet over the last five years, paralleling the change in the wetland surface water levels. The largest variation occurred in 2003/2004 when the wetland water level was at its maximum as a result of beaver dams blocking the drainage under the railroad track to the northeast of the landfill. The railroad company removed the beaver damn under the bridge in 2004, and since then the wetland water has remained low. The groundwater along the landfill's edge varied by less than 1.5' over the last two years.

Groundwater flows from the west (landfill entrance) to the east, towards the wetland. Groundwater contour plots using SURFER (see Attachment C) show the gradient to have remained relatively steady at around 0.03 ft/ft across the landfill in both the shallow and deep aquifers. The shallow groundwater can be as much as 7 feet above the deeper aquifer at the upgradient well couplet (MW-1A/B), while the difference ranges from 0 to 1 foot at MW-5A/B and MW-20A/B due to a direct impact from the wetland. These two well couplets are located at the edge of the landfill, almost into the wetland. At MW-3A/B, which is located at the southern edge and farther removed from the wetland than the other two well couplets, shallow groundwater is seen to be as much as 1.4 feet below the deeper aquifer. The lower aquifer is largely influenced by the gradient from up the hill, while the shallow groundwater is tempered by the wetland.

Water levels in and around the leachate tank are profiled in Figure 3. The water level within the leachate sump appears to be mostly influenced by the fluctuations by the wetland water. Without the effect of the wetland, leachate collection in the sump could be relatively small. The presence of leachate seeps was confirmed by the results of a 2004 dye tracer study (see June 2005 Report) . Two seeps were identified, one near SW-2 and the other near SW-3 (see surface water locations on the site topographic map).

Contaminant Concentrations

Groundwater and surface water were sampled only for volatile organics and metals over the last two years. Semivolatile organic compounds (SVOCs) and PCBs were not included since they were

not detected in the monitoring wells and were less than 2 ppb in surface water during the previous three years.

Groundwater: The two upgradient wells MW-1A and MW-1B, and one deep well MW-3A (see Figure 4A) continue to show trace to no contamination, mostly by contaminants that are common laboratories, and are not indicative of the presence of site related contamination. A variety of chlorinated and petroleum-based volatile organic compounds (see Form 4As in Attachment B, and Figures 4A and 4B) continue to be detected at trace levels (0.11 to 6.3 ppb) in the other wells (MW-3B, MW-5A/B and MW-20A/B). The groundwater standards were exceeded for 1,2-dichloroethane (1.8 and 1.9 ppb at MW-20A/B compared to 0.5 ppb standard), benzene (1.02 and 1.03 ppb at MW-5A/B compared to 1 ppb standard), and chlorobenzene (5.94 ppb at MW-5B compared to 5 ppb standard). Total VOCs were however within the same order of magnitude (less than 14 ppb) in these four wells (MW-5A/B and MW-20A/B) as in previous events.

Only aluminum, iron, manganese, magnesium, sodium and zinc show exceedances of the groundwater standards in one or more wells. These exceedances do appear to have a significant impact on the environment.

Surface Water: Surface water was sampled at three to four locations (see locations on site topographic map) during the last two years. Surface water at the railroad bridge to the south (SW-1) has been relatively free of VOCs, with only negligible detections (total less than 2.1 ppb, including acetone at 1.9 ppb). The wetland water at SW-2 (between MW-5A/B and MW-20A/B) had the highest VOC levels, with 1,2-dichloroethene spikes of 15 to 18.5 ppb. The 1,2-dichloroethene spike is attributed to the leachate seep as confirmed by the 2004 tracer study. Total VOC was high (58 to 60 ppb) during the last two sampling events (July and August 2007). The surface water sample at SW-3 (from the other leachate seep area previously identified) went from non-detect in November 2005 to 15.8 ppb total VOCs in July 2007, with toluene as the predominant compound (see Figure 4C).

Leachate: Leachate in the collection sump (MHC-1) near the MW-20 series wells had total VOC around 25 ppb, with the same trace to low levels of chlorinated and petroleum VOCs seen in wells MW-5A/B and MW-20A/B. Chlorobenzene is the predominant compound at 12 to 14 ppb. These levels are significantly lower than in November 2003 when levels were higher due to extensive pumping of leachate. No leachate was pumped during the last two years.

4. WETLAND BIOTA AND SEDIMENT

The wetland was the subject of remedial efforts during landfill closure in 1995 due to elevated PCB levels. PCBs were detected in 2003 in sediment samples (50 to 57 ppm at one location and less than 2.3 ppm at other locations). As a result of the 2003 sampling results, two rounds of biota (and associated surface water and sediment) sampling were performed (one in June 2005 and the other in August 2007) at the site. The sampling procedures and results are presented in separate reports included as Attachments D-1 and D-2 (dated August 2005 and September 2007 respectively). Analytical data for the biota samples are also summarized in Table 3.

During the first round of biota sampling (June 2005), Aroclor 1016 was detected at 4 ppm in a composite fish sample, and at 1.25 and 1.48 ppm in two composite tadpole samples. In August 2007, two fish composite samples (one from fish greater than 7 cm, and the other less than or equal to 7 cm) contained 16.6 and 16.2 ppm of Aroclor 1242, well above fish tissue benchmarks. A composite tadpole sample contained 0.7 ppm of Aroclor 1242. The fish results indicate a potential for impacts to receptors foraging on fish from the wetland as a results of residual PCB contamination in the wetland sediments.

5. **MAINTENANCE**

This site did not require extensive maintenance. The cap and gas vents are in good condition. Well and gate repairs were made previously. The gates have been secured with combination locks. The two drums of activated carbon used to treat the leachate were transported off-site by the carbon supplier for disposal.

6. **ANTICIPATED ACTIVITIES**

Anticipated activities in the future for the Kessman Landfill include the following:

- Routine inspections
- Sampling of groundwater, surface water, leachate, sediment and biota
- Leachate management
- Landfill cap repair and sediment removal near leachate seep

7. **RECOMMENDATIONS**

MONITORING/INSPECTION: Site monitoring over the last five years has shown individual VOCs at low ppb levels in groundwater around the landfill perimeter. VOC contamination persists in wetland water, particularly at a possible leachate seep location near MW-20A/B. PCBs were found in wetland sediment and biota. However, there is no evidence of off-site contaminant migration. Therefore it is recommended that groundwater and surface water quality be monitored on a regular basis (one to twice a year), and wetland sediment and biota should be included at a reduced frequency.

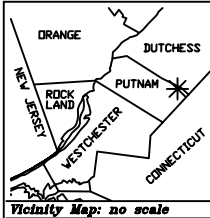
LEACHATE PUMPING: Contaminant levels have been relatively low in landfill leachate. The leachate pumping at regular intervals is recommended to prevent seeps into the wetland.

WETLAND SEDIMENT: The wetland sediment still contains residual levels of PCBs from the past and is a receptor for biota. Consideration should be given to repairing the landfill cover at the edge of the landfill/wetland near MW-20A/B, and removal of contaminated sediments in that area.

**CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

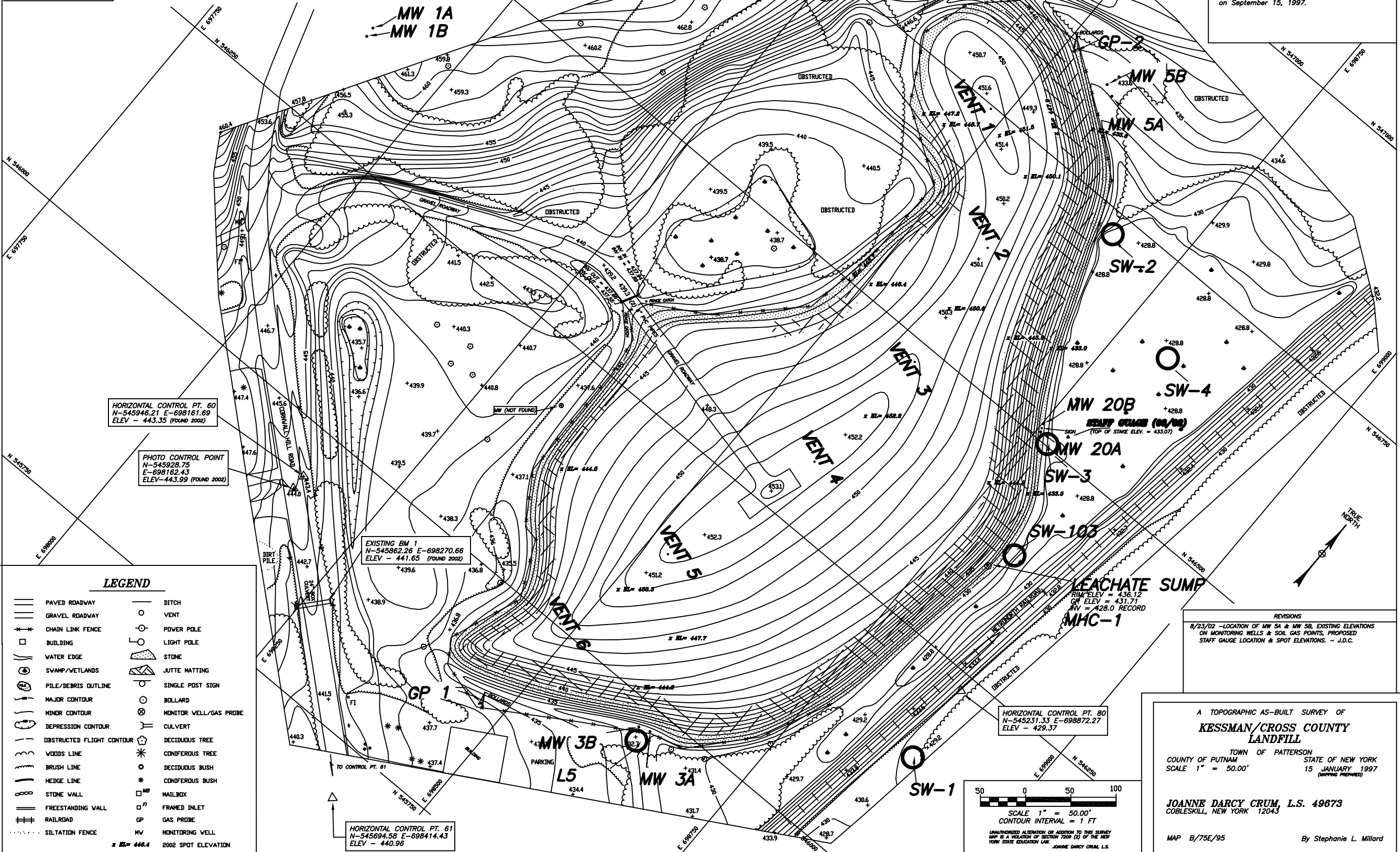
OM&M REPORT

DRAWING & FIGURES



MONITORING WELL/ GAS POINT	2002 ELEVATIONS		
	GROUND ELEVATION	CASING TOP ELEVATION	TOP PVC ELEVATION
MW 1A	461.15	463.52	463.15
MW 1B	461.07	463.21	463.01
MW 3A	431.82	435.01	434.65
MW 3B	432.68	436.08	435.78
MW 5A	431.38	434.01	433.84
MW 5B	431.70	434.49	434.35
MW 20A	431.51	434.09	431.29
MW 20B	431.26	433.68	431.17
GP 1	436.08	439.80	439.58
GP 2	435.56	437.44	437.12

NOTES:
 Vertical Datum: NGVD 1929
 Horizontal Datum: NAD 83
 As-built Survey Performed By Joanne Darcy Crum, L.S. on September 5, 1996.
 Aerial Photography Provided by LaFave, White & McGivern and flown on September 24, 1996.
 Mapping prepared by Joanne Darcy Crum, L.S. on September 15, 1997.



HORIZONTAL CONTROL PT. 60
 N-545946.21 E-698161.69
 ELEV - 443.35 (FOUND 2002)

PHOTO CONTROL POINT
 N-545928.75 E-698162.43
 ELEV-443.99 (FOUND 2002)

EXISTING BM 1
 N-545862.26 E-698270.66
 ELEV - 441.65 (FOUND 2002)

HORIZONTAL CONTROL PT. 80
 N-545231.33 E-698872.27
 ELEV - 429.37

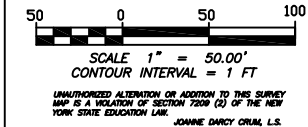
HORIZONTAL CONTROL PT. 81
 N-545894.58 E-698414.43
 ELEV - 440.96

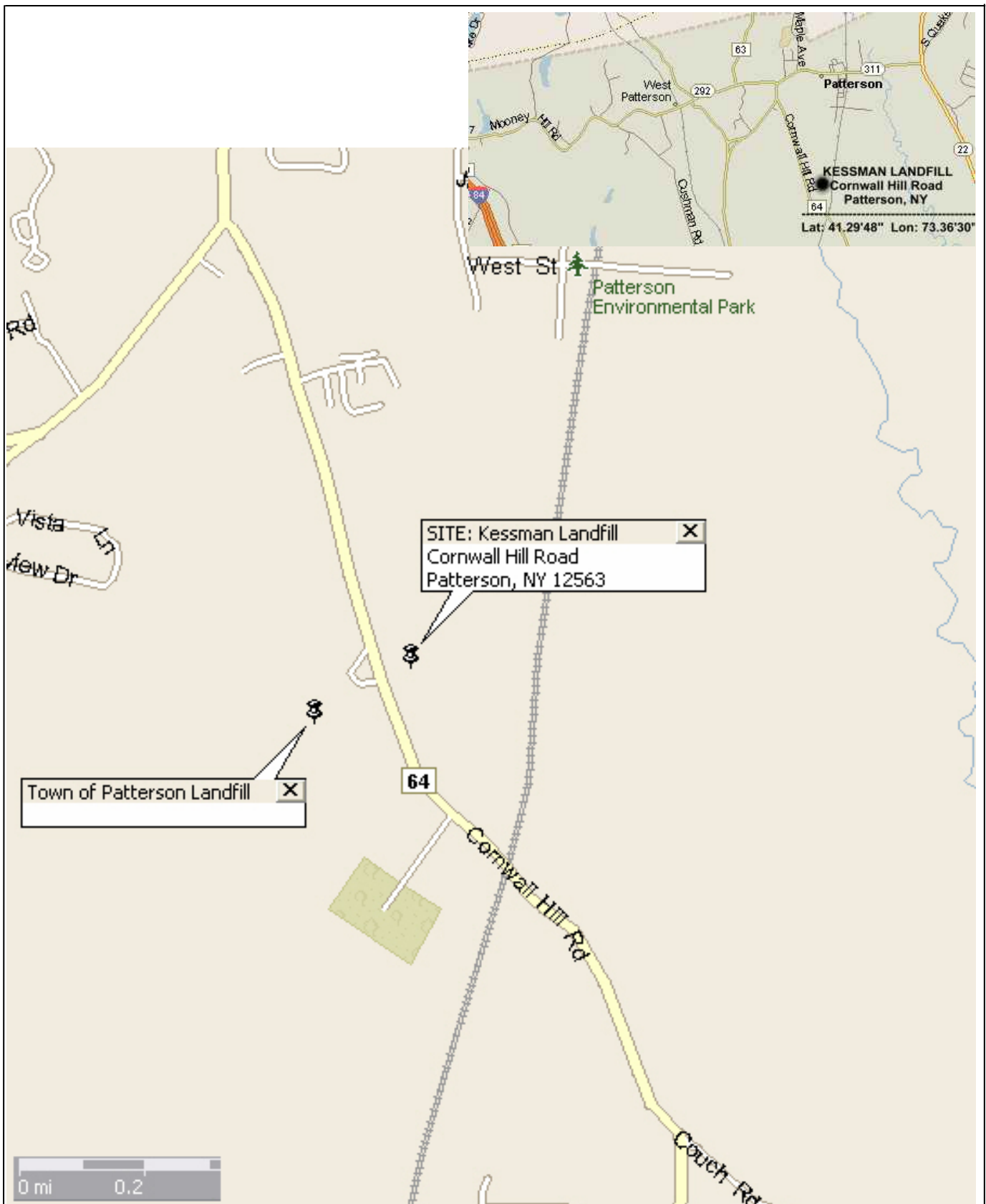
LEGEND

- | | |
|---------------------------|------------------------|
| PAVED ROADWAY | DITCH |
| GRAVEL ROADWAY | VENT |
| CHAIN LINK FENCE | POWER POLE |
| BUILDING | LIGHT POLE |
| WATER EDGE | STONE |
| SWAMP/WETLANDS | JUTTE MATTING |
| PILE/DEBRIS OUTLINE | SINGLE POST SIGN |
| MAJOR CONTOUR | BOLLARD |
| MINDER CONTOUR | MONITOR WELL/GAS PROBE |
| DEPRESSION CONTOUR | CULVERT |
| OBSTRUCTED FLIGHT CONTOUR | DECIDUOUS TREE |
| WOODS LINE | CONIFEROUS TREE |
| BRUSH LINE | DECIDUOUS BUSH |
| HEDGE LINE | CONIFEROUS BUSH |
| STONE WALL | MAILBOX |
| FREESTANDING WALL | FRAMED INLET |
| RAILROAD | GP GAS PROBE |
| SILTATION FENCE | MV MONITORING WELL |
- 2002 SPOT ELEVATION

REVISIONS
 8/23/02 - LOCATION OF MW 5A & MW 5B, EXISTING ELEVATIONS ON MONITORING WELLS & SOIL GAS POINTS, PROPOSED STAFF GAUGE LOCATION & SPOT ELEVATIONS. - J.D.C.

A TOPOGRAPHIC AS-BUILT SURVEY OF
KESSMAN/CROSS COUNTY LANDFILL
 TOWN OF PATTERSON STATE OF NEW YORK
 COUNTY OF PUTNAM SCALE 1" = 50.00' 15 JANUARY 1997
 (DRAFT PREPARED)
JOANNE DARCY CRUM, L.S. 49673
 COBLESKILL, NEW YORK 12043
 MAP B/75E/95 By Stephanie L. Millard





CROSS CO. SANITATION/KESSMAN LANDFILL

SITE LOCATION MAP

FIGURE 1

IEG/OBG



Source: Google Earth

**CROSS CO. SANITATION/KESSMAN LANDFILL
AERIAL PHOTO**

FIGURE 2

IEG

**LEACHATE SUMP
MANHOLE @
E 698800, N 546360
INVERT ELEV. 428 FT
GROUND ELEV. 432 FT
MANHOLE RIM 436.1 FT**

GROUND SURFACE

**LEACHATE SUMP
WATER LEVEL
427' - 430'**

**LEACHATE PIPE
END CAP @
E 698575, N 546850
INVERT ELEV. 432.1 FT
GROUND ELEV. 436 FT**

**LEACHATE PIPE
END CAP @
E 698625, N 545975
INVERT ELEV. 429.4 FT
GROUND ELEV. 433 FT**

**WETLAND
WATER LEVEL
429' - 433'**

**6" PERFORATED
LEACHATE
COLLECTION
PIPE**

**CROSS COUNTY SANITATION/KESSMAN LF
LEACHATE COLLECTION SYSTEM PROFILE**

FIGURE 3

IYER ENVIRONMENTAL GROUP PLLC

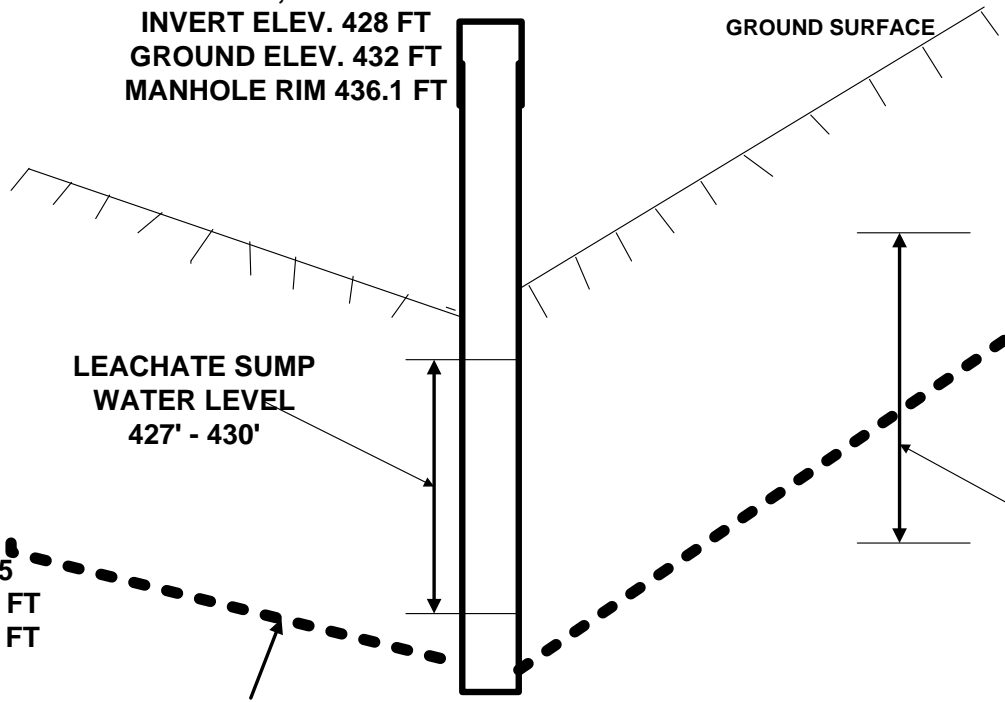


FIGURE 4A
CROSS COUNTY SANITATION/KESSEMAN LANDFILL
VOCs IN GROUNDWATER

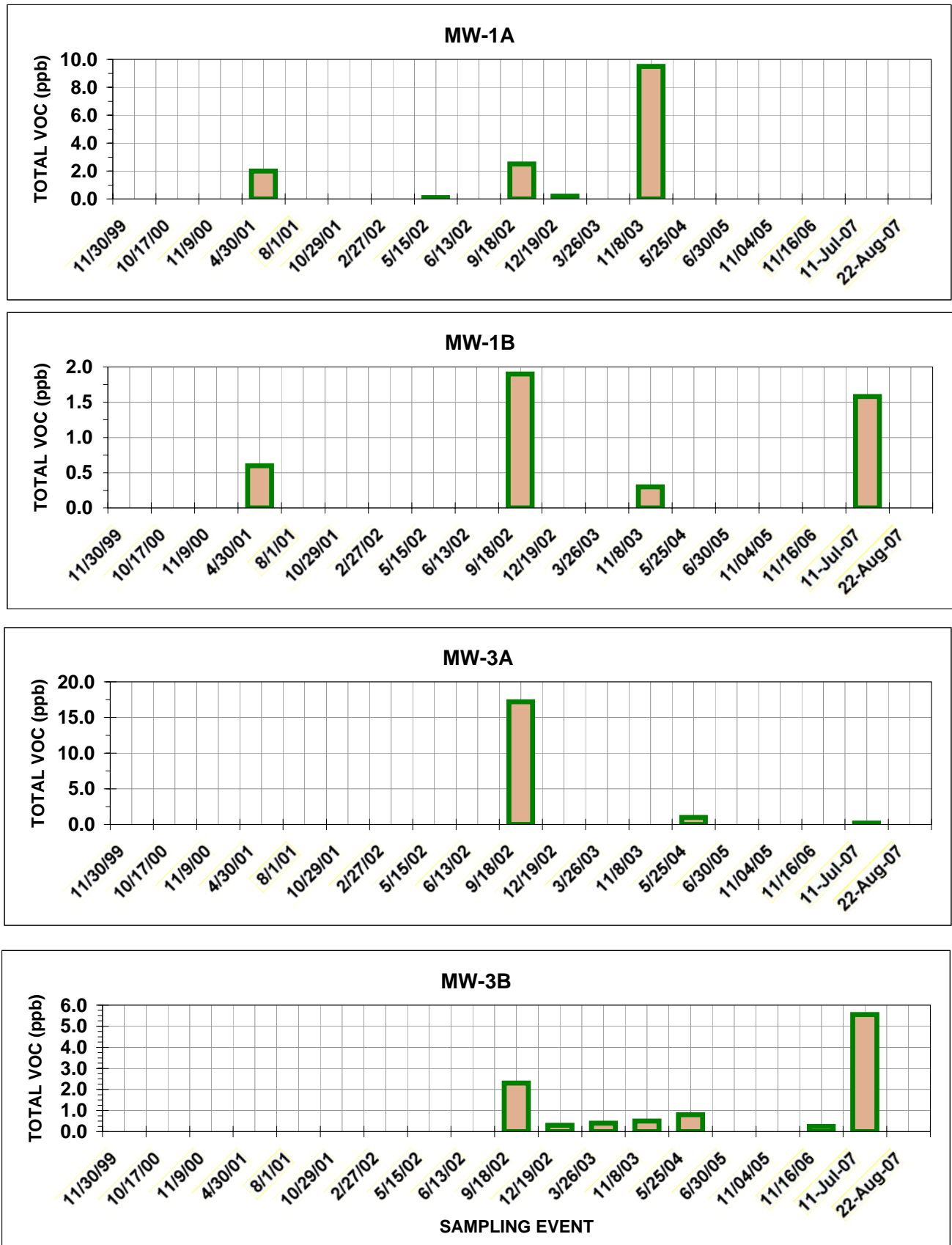


FIGURE 4B
CROSS COUNTY SANITATION/KESSEMAN LANDFILL
VOCs IN GROUNDWATER

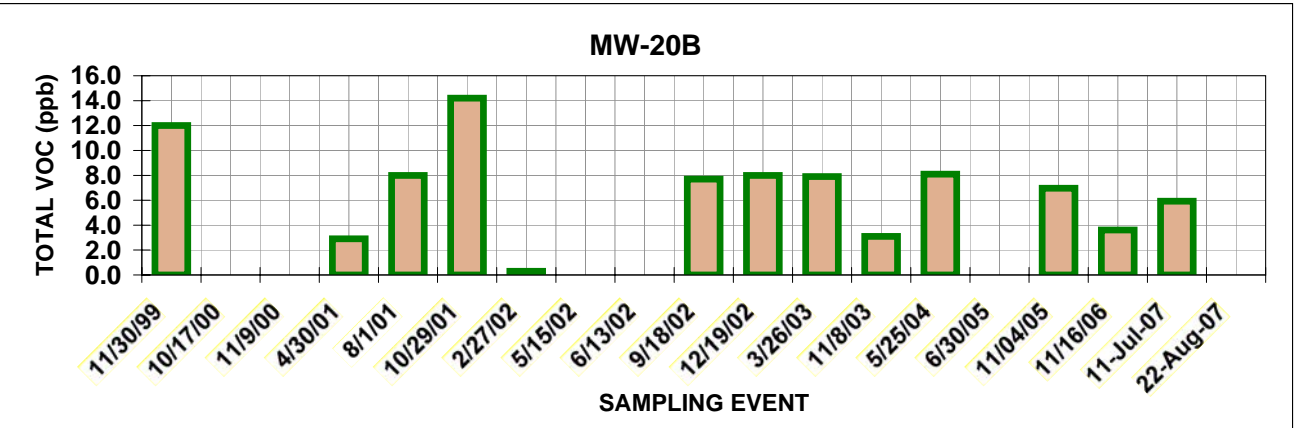
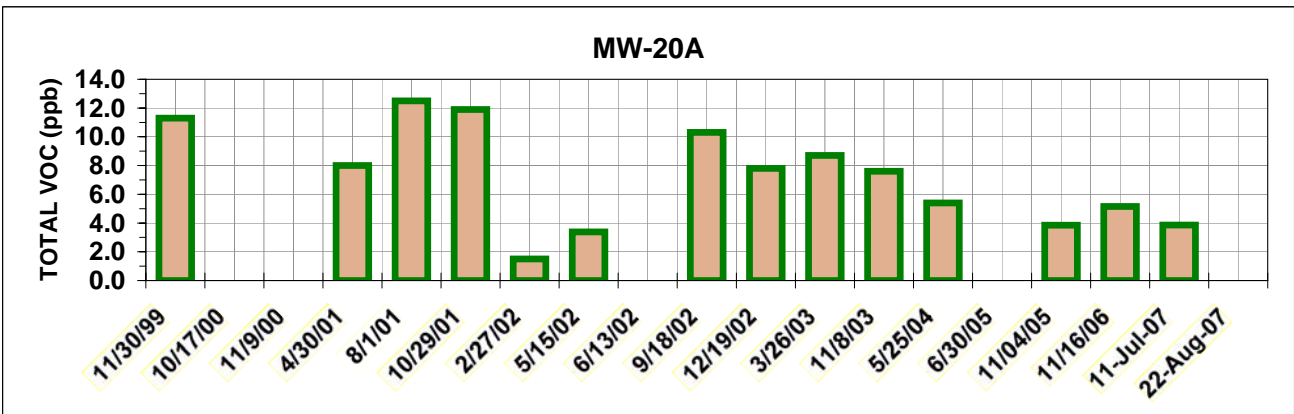
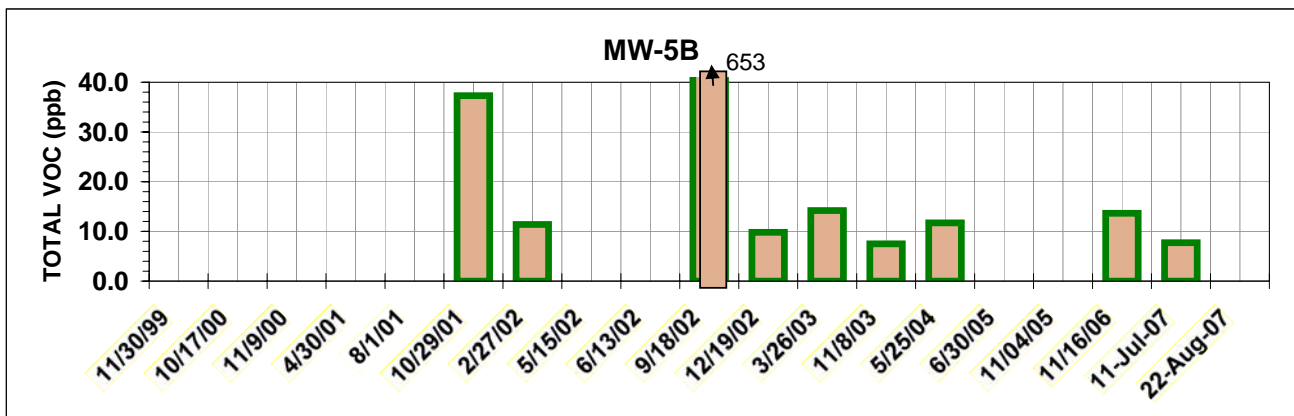
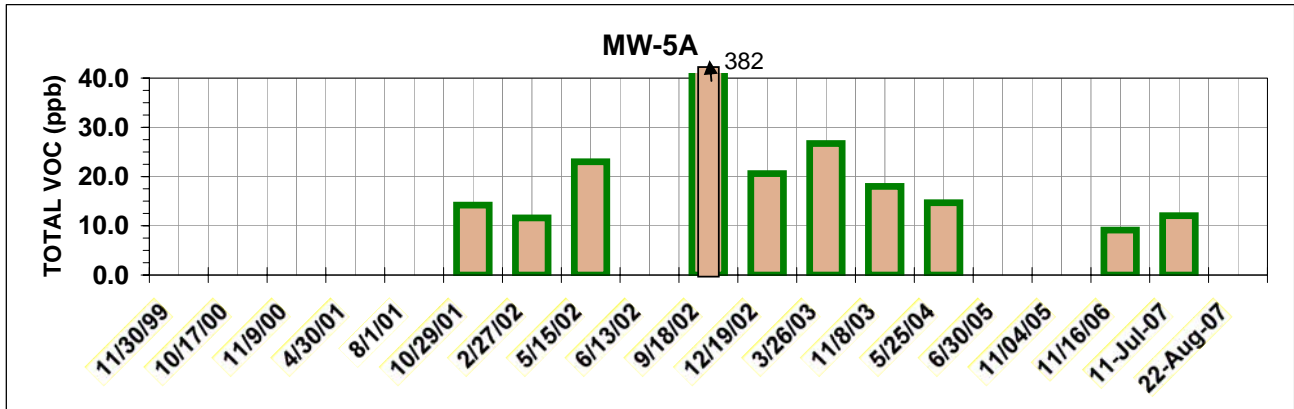
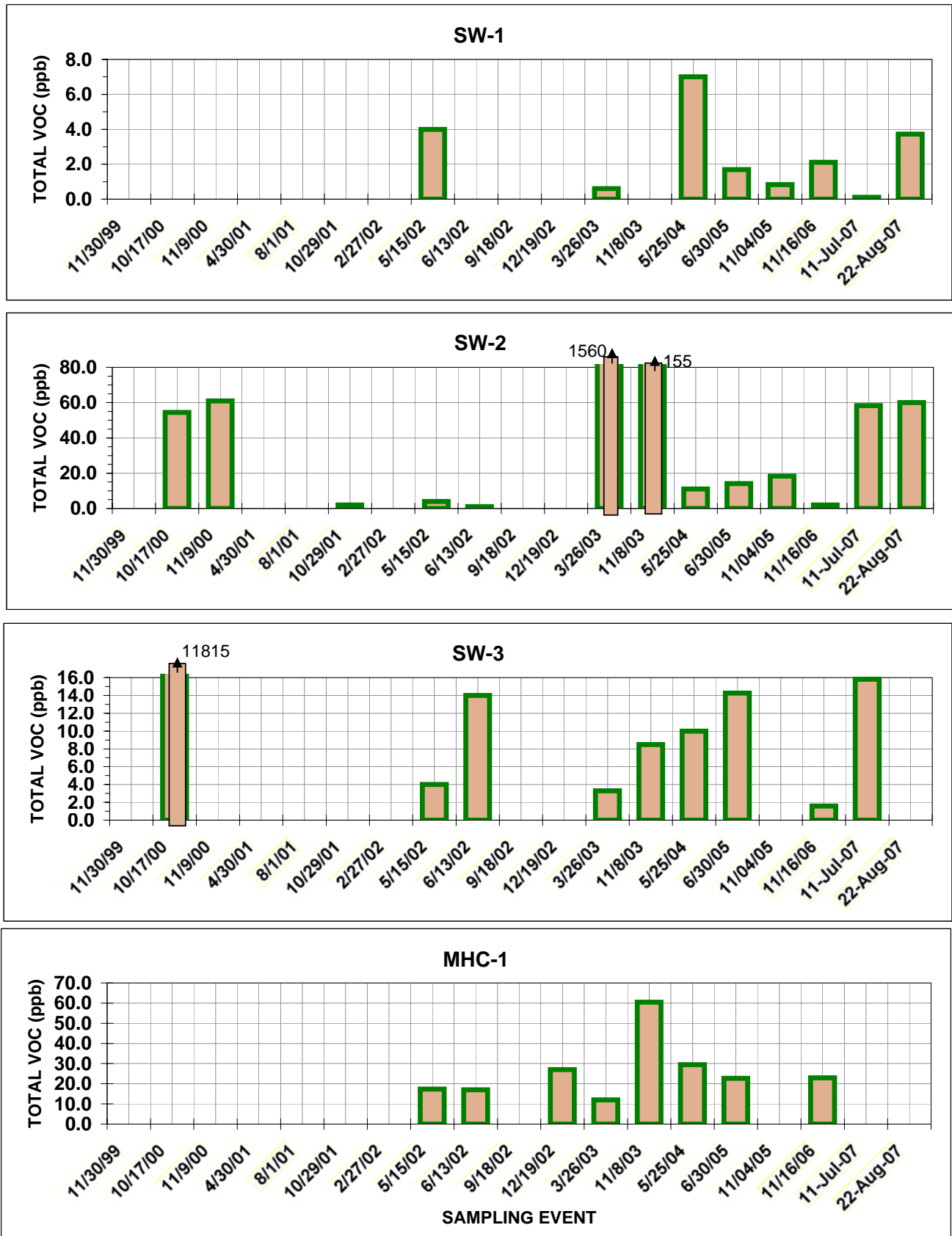


FIGURE 4C
CROSS COUNTY SANITATION/KESSEMAN LANDFILL
VOCs IN SURFACE WATER/LEACHATE



**CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M
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TABLES

**TABLE 1
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
ANALYTICAL SCHEDULE**

PARAMETERS	Sample	ANALYTICAL METHOD
TCL Volatile organics	Groundwater Surface Water Leachate	8260B
TCL Semivolatiles	Leachate	SOP 100-58
TCL PCBs (low detection limit)	Groundwater Surface water	SW8082
TCL Pesticides/PCBs	Leachate	SW8082
TAL Metals	Groundwater Surface water Leachate	200.7 CLP-M
Mercury	Groundwater Surface water Leachate	ICP 245.1 CLP-M
Chlorides	Groundwater	300.0
Total Suspended Solids (TSS)	Groundwater Surface water Leachate	160.2
Total Organic Carbon (TOC)	Groundwater Surface water Leachate	415.1
Biological Oxygen Demand (BOD)	Surface water Leachate	405.1
Chemical Oxygen Demand (COD)	Surface water Leachate	410.4

TABLE 2
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
SUMMARY OF VOCs IN GROUNDWATER/SURFACE WATER/LEACHATE

DATE	SAMPLE LOCATION														
	MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	SW-4	SW-103	L-5	MHC-1
11/30/99	ns	ns	ns	0.0	ns	ns	11.3	12.0	ns	ns	ns	ns	ns	ns	ns
10/17/00	0.0	0.0	ns	0.0	ns	ns	nd	nd	ns	54.4	11815	ns	0.0	40.0	ns
11/9/00	ns	ns	ns	ns	ns	ns	ns	ns	ns	61.0	ns	ns	ns	ns	ns
4/30/01	2.0	0.6	0.0	0.0	ns	ns	8.0	2.9	ns	0.0	0.0	ns	0.0	ns	ns
8/1/01	0.0	0.0	0.0	0.0	ns	ns	12.5	8.0	0.0	0.0	0.0	ns	0.0	ns	ns
10/29/01	0.0	0.0	0.0	0.0	14.2	37.3	11.9	14.2	0.0	2.0	0.0	ns	0.0	ns	ns
2/27/02	0.0	0.0	0.0	0.0	11.6	11.4	1.5	0.3	ns	0.0	0.0	ns	4.0	0.0	ns
5/15/02	0.1	0.0	0.0	0.0	23.0	0.0	3.4	0.0	4.0	4.0	4.0	ns	10.0	ns	17.4
6/13/02	ns	ns	ns	ns	ns	ns	ns	ns	0.0	1.0	14.0	ns	0.0	ns	17.0
9/18/02	2.5	1.9	17.2	2.3	382.3	653.3	10.3	7.7	0.0	0.0	0.0	ns	0.0	ns	0.0
12/19/02	0.2	0.0	0.0	0.3	20.6	9.8	7.8	8.0	ns	ns	ns	ns	ns	ns	27.0
3/26/03	0.0	0.0	0.0	0.4	26.7	14.2	8.7	7.9	0.6	1559.8	3.3	ns	2.7	ns	12.0
11/8/03	9.5	0.3	0.0	0.5	18.0	7.5	7.6	3.1	0.0	154.9	8.5	ns	1.0	ns	60.4
5/25/04	0.0	0.0	1.0	0.8	14.7	11.7	5.4	8.1	7.0	11.0	10.0	ns	8.0	ns	29.5
6/30/05	ns	ns	ns	ns	ns	ns	ns	ns	1.7	14.1	14.3	ns	ns	ns	22.8
11/04/05	ns	ns	ns	ns	ns	ns	3.9	7.0	0.8	18.4	0.0	NS	ns	ns	ns
11/16/06	0.0	0.0	0.0	0.2	9.1	13.6	5.2	3.6	2.1	2.0	1.6	1.9	ns	ns	23.0
11-Jul-07	0.0	1.6	0.2	5.6	12.1	7.7	3.9	5.9	0.1	58.3	15.8	ns	ns	25.15	
22-Aug-07	ns	ns	ns	ns	ns	ns	ns	ns	3.73	60.04	ns	2.21	ns	ns	ns

NOTE: 1. Surface water samples previously labeled as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
2. Only detected values are reported; ns = not sampled
3. MW-5A and MW-5B includes Butanone at 360 and 640 ppb respectively; Total VOCs excluding butanone are 22.3 and 13.3 respectively.

TABLE 3
CROSS COUNTY SANITATION/KESSMAN LANDFILL
ANALYTICAL RESULTS FOR BIOTA SAMPLES

Sampled June 2005

Location	Sample ID	% Lipid	% Moisture	Total PCB (ppm)	Fish Tissue Benchmark (ppm)
North and South portions of pond	KL-F1 (fish)	1.42	78.9	4.05 ¹	0.11 ²
Northern portion of pond	KL-T1 (tadpole)	0.693	86.2	1.48 ¹	1.5 ³
Southern portion of pond	KL-T2 (tadpole)	0.982	86.7	1.25 ¹	

Sampled August 2007

Sample Type	Sample ID	% Lipid	% Moisture	Total PCB (ppm)	Fish Tissue Benchmark (ppm)
Fish > 7 cm long	KL-Fish 1	2.16	74.9	16.6 ⁴	0.11 ²
Fish <= 7 cm long	KL-Fish 2	3.54	77.2	16.2 ⁴	1.5 ³
Frogs/Tadpoles	KL-Amph 1	NA	NA	0.706 ⁴	

Notes:

- ¹ Aroclor 1016 is detected. Aroclors 1221,1232, 1242, 1248, 1254 and 1260 are not detected.
- ² Newell, A.J., Johnson, and L.K. Allen. 198. *Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorous Wildlife*. Technical Report 87-3. NYSDEC
- ³ USEPA 1999. *Phase 2 Report - Review Copy. Further Site Characterization and Analysis. Volume 2E - Baseline Ecological Risk Assessment Hudson River PCBs Reassessment RI/FS.*
- ⁴ Aroclor 1242 is detected. Aroclors 1016, 1221,1232, 1248, 1254, 1260, 1262, and 1268 are not detected. NA = Not Applicable - not enough mass was collected for analysis of these parameters.

**CROSS COUNTY SANITATION/KESMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

OM&M REPORT

ATTACHMENT A

BACKGROUND INFORMATION AND SITE PHOTOS

Inactive Hazardous Waste Disposal Report

April 1, 2000

Site Name: Cross Co. Sanitary-Kessman L.F.	Site Code: 340011
Class Code: 4 Region: 3 County: Putnam	EPA Id: NYD980528491
Address: Cornwall Hill Road City: Patterson	Zip: 12563
Latitude: 41 29' 48" Longitude: 73 36' 30"	
Site Type: Landfill	Estimated Size: 10 Acres

Site Owner / Operator Information:			
Current Owner(s) Name:	Albert, Martin and Bernard Kessman		
Current Owner(s) Address:	Cornwall Hill Road	Patterson	NY 12563
Owner(s) during disposal:	Kessman Brothers & Cross Co. Sanitation		
Operator(s) during disposal:	Kessman Brothers & Cross Co. Sanitat		
Stated Operator(s) Address:	Cornwall Hill Road	Patterson	NY 12563
Hazardous Waste Disposal Period:	From 1975	To 1976	

Site Description:

This site is a landfill which accepted solid and industrial wastes of unknown types and quantities. A field investigation revealed the presence of numerous leachate seeps and approximately 40 to 60 partially exposed 55-gallon drums, some of which were leaking and had a strong chemical odor. HNu readings revealed 5.0 to 13.5 ppm total organic vapors in the vicinity of the drums. Phase I and II Investigations have been completed. During the Phase II Investigation in 1985, a metal detector survey identified a few locations which may contain buried drums or other metallic objects. Leachate seeps were evident and the vegetation was severely stressed. One well downgradient of the site and adjacent to the area where drums were observed indicated volatile organics totalling 209 ppb, acid extractables at 39 ppb and base neutral extractables at 21 ppb. Two other wells downgradient of the site but upgradient of the drum area were clean. Sediment samples from a downstream location indicated contamination with volatile organics. The site was ordered closed and covered; however, cover was incomplete and has washed away in some areas. A State Superfund RI/FS was completed in November 1994 as was a ROD. The ROD called for capping and wetland restoration. An IRM started in 1993 to remove drums and contaminated soils was completed in March 1995. The cap was completed in August 1995. The site is under post-closure O&M. Recent sampling activities reported leachate seeps with organic contamination. The effectiveness of the leachate collection system is being evaluated thru periodic sampling activities.

Confirmed Hazardous Waste Disposal:

Benzene (F005)
 Barrels containing VOCs, PCBs, Pesticides

Quantity:

unknown
 Approx. 250

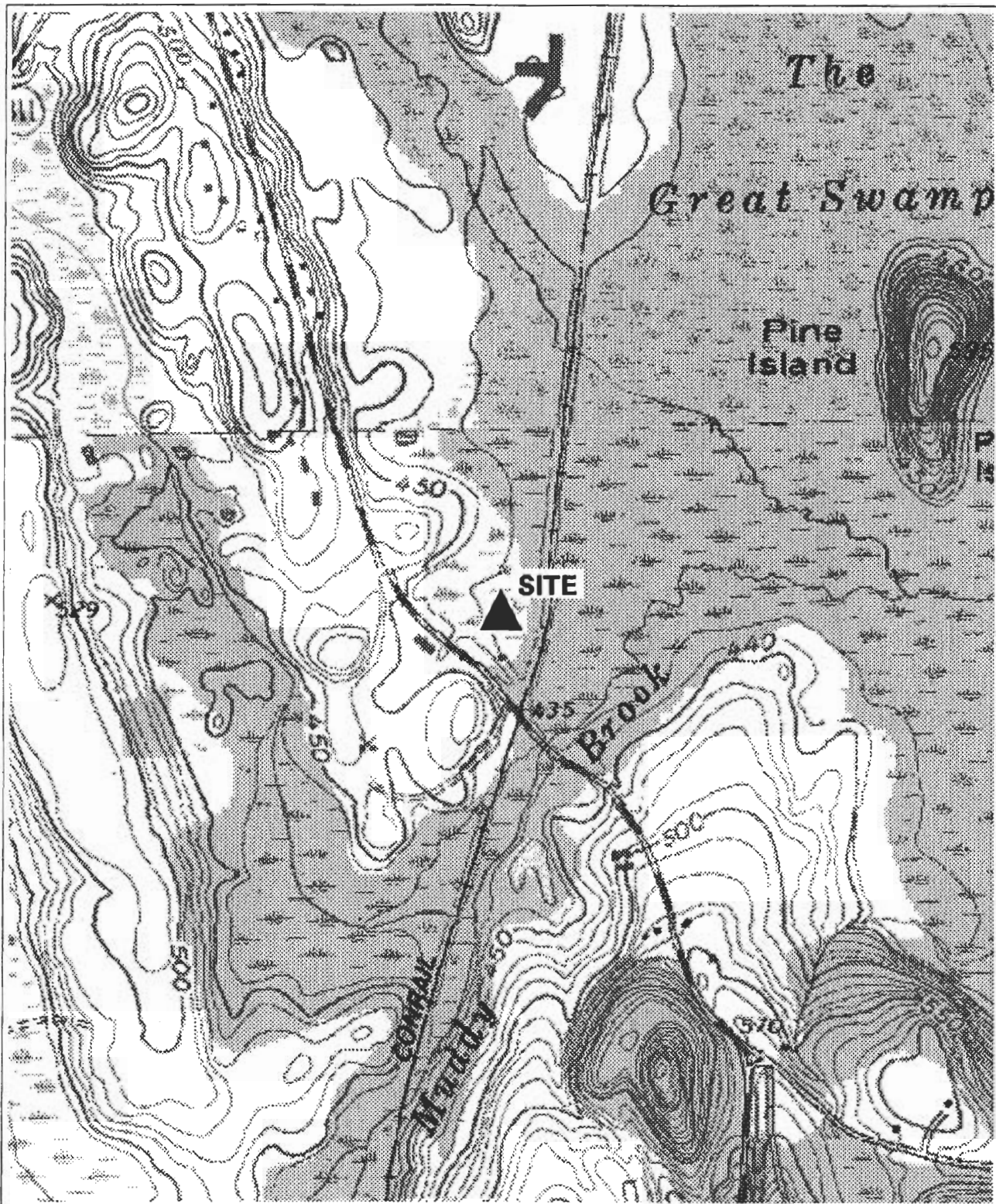
Analytical Data Available for:	Air	Groundwater	Surface Water	Soil	Sediment
Applicable Standards Exceeded in:	Groundwater	Surface Water			
Geotechnical Information:				Depth to	
Soil/Rock Type:	Sand-rich silt over marble bedrock.			Groundwater:	Range: 5 to 15 feet.
Legal Action: Type:				Status:	
Remedial Action:	Complete	Nature of action:		Part 360 cap and monitoring	

Assessment of Environmental Problems:

Remedial activities have mitigated all tangible environmental problems at this site. Monitoring is underway.

Assessment of Health Problems:

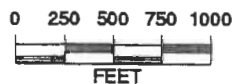
Four upgradient private drinking water wells sampled from 1988 to 1997 did not reveal the presence of any site related contaminants. These wells are to be included in the New York State Department of Environmental Conservation's (NYSDEC) long term monitoring program as part of site remediation. In the past, site leachate drained into the Great Swamp which eventually feeds into the New York City Croton Reservoir system. The landfill cap will reduce the possibility for off-site migration of site contaminants. Long-term monitoring has been recommended at the site. The monitoring will determine the effectiveness of remedial measures. The former landfill area is fenced and a locked gate at the entrance of the site restricts vehicles. Hazardous waste warning signs are posted at the site perimeter.



Site Location Map

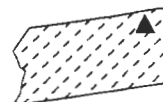
340011 Cross Co. Sanitary-Kessman L.F.

Map source: USGS 1:24,000-scale topographic quadrangles



Scale 1:12,000

April 1, 2000



County: Putnam

**Kessman Landfill, Patterson, NY
Biota Sampling
June 30, 2005**

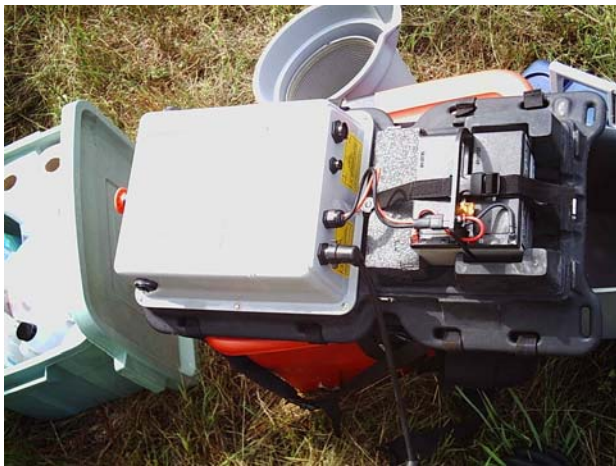


Photo 1. Looking north at Kessman Landfill pond.



Photo 2. Looking south from northern fringe of Kessman Landfill pond. Submerged vegetation observed at surface.

KESSMAN LANDFILL - SITE PHOTOS
OM&M and Biota Sampling
November 30, 2005



KESSMAN LANDFILL OM&M - SITE PHOTOS
April 2006



Figure 1
Looking South down slope towards MW3A &B
Note burrow holes in ground



Figure 2
Looking Northeast at wetlands pond



Figure 3
Looking east along northern edge of wetland pond



Figure 4
Looking east at staff gauge in pond



Figure 5
View of wetland pond and landfill from Railroad
Tracks (looking northwest)



Figure 6
Drainage pipe under west side of Railroad Bridge
Note that intake of pipe is covered in meshed
fence material

**KESSMAN LANDFILL OM&M
SITE PHOTOS – AUGUST 24, 2007**



Looking north along the top of the landfill from the gravel roadway



View from the end of the gravel roadway looking west



View from the end of the gravel roadway looking south



View from the end of the gravel roadway looking southwest



The wetlands at the northeast corner of the landfill



The Leachate Sump on the east side of the landfill

**CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

OM&M REPORT

**ATTACHMENT B
DATA FORMS**

FORM 1A

KESSMAN LANDFILL OM&M SUMMARY OF SITE ACTIVITIES June 2005 to November 2007

DATE	DESCRIPTION
June 30, 2005	Sampled and analyzed fish and surface water/sediment in wetland,
November 30, 2005	Routine inspection; measured water levels and gas vents; collected groundwater, leachate and surface water samples (Round 8)
April 13, 2006	Routine inspection; measured water levels and gas vents; collected groundwater, leachate and surface water samples (Round 9)
November 16, 2006	Routine inspection; measured water levels and gas vents; collected groundwater, leachate and surface water samples (Round 10)
July 10-11, 2007	Routine inspection; measured water levels and gas vents; collected groundwater, leachate and surface water samples (Round 11)
August 22, 2007	Sampled and analyzed fish in wetland
November 16, 2007	Arranged for pickup and disposal of two used activated carbon drums



MEMORANDUM

TO: Carl Hoffman (NYSDEC), Paul Curran (OBG)
FROM: Dharma Iyer and Jennifer Carter (IEG)
DATE: December 1, 2005
RE: **OM&M FIELD REPORT – Kessman Landfill, Patterson, NY**

DATE ON SITE	November 30, 2005
ACTIVITIES	Quarterly OM&M and Water Sampling
FIELD MEASUREMENTS	Ground Water Levels and readings taken from Gas Vents Field Form 1 is attached
	<p>Activities:</p> <ul style="list-style-type: none">• Groundwater samples taken from wells and three surface water samples taken from wetlands pond and surrounding area. <p>Observations:</p> <ul style="list-style-type: none">• Outer and inner access gates are secured and locked.• PVC caps are broken at wells MW-1A and MW-5 A and B.• Erosion (animal burrows) is occurring in places along the south slope near MW-3 A & B• Screens are missing from Vents 1, 4 and 6.• Drainage from wetland beneath Railroad bridge continues to remain unobstructed <p>Recommendations:</p> <ul style="list-style-type: none">• Replace broken PVC caps for three monitoring wells.• Replace screens on three vents
PLANNED ACTIVITIES	➤ Continue quarterly OM&M activities



MEMORANDUM

TO: Carl Hoffman (NYSDEC), Paul Curran (OBG)
FROM: Dharma Iyer and Jennifer Carter (IEG)
DATE: May 1, 2006
RE: **OM&M FIELD REPORT – Kessman Landfill, Patterson, NY**

DATE ON SITE	April 13, 2006
ACTIVITIES	Quarterly OM&M
FIELD MEASUREMENTS	Ground Water Levels and Gas Vents Field Form 1 is attached; site photos are attached
	<p>Observations:</p> <ul style="list-style-type: none">• Outer and inner access gates are secured and locked.• PVC caps are broken at wells MW-1A and MW-5 A and B.• Photos were taken of two potential seepage areas into the wetland, near MW-20A & B and near the north end of the fence. The leachate tracer study indicated possible seepage/infiltration from the same two areas.• Erosion (animal burrows) is occurring in places along the south slope near MW-3 A & B (see photo).• Screens are missing from Vents 1, 4 and 6.• Drainage from wetland beneath Railroad bridge continues to remain unobstructed (see photo). <p>Recommendations:</p> <ul style="list-style-type: none">• Replace broken PVC caps for three monitoring wells.• Replace screens on three vents• Prepare sampling plan of possible leachate seepage areas in wetland.• Prepare twp year plan of OM&M for Kessman. <p>Leachate Treatment</p> <ul style="list-style-type: none">• Review treatment plan and possible alternate treatment for iron.
PLANNED ACTIVITIES	<ul style="list-style-type: none">➤ Continue quarterly OM&M activities➤ Continue with leachate treatment plan



MEMORANDUM

TO: Carl Hoffman (NYSDEC), Paul Curran (OBG)
FROM: Dharma Iyer and Jennifer Carter (IEG)
DATE: November 30, 2006
RE: OM&M FIELD REPORT – Kessman Landfill, Patterson, NY

DATE ON SITE	November 16, 2006
ACTIVITIES	Quarterly OM&M and water sampling
FIELD MEASUREMENTS	Ground Water Levels and readings taken from Gas Vents Field Form 1 is attached
	<p>Activities:</p> <ul style="list-style-type: none">• Groundwater samples taken from wells and three surface water samples taken from wetlands pond and surrounding area. <p>Observations:</p> <ul style="list-style-type: none">• Pond water level is very high. At Railroad Bridge water is within one foot of the bottom of the bridge. Beaver dam has been re-established under east side of the bridge. The 8-inch PVC pipes running from west to east are clogged. There is no water flow under the Beaver Dam.• Outer and inner access gates are secured and locked with Town of Patterson locks.• PVC caps are broken at wells MW-1A and MW-5 A and B.• Screens are missing from Vents 1, 4 and 6. <p>Recommendations:</p> <ul style="list-style-type: none">• Replace broken PVC caps for three monitoring wells.• Replace screens on three vents
PLANNED ACTIVITIES	➤ Continue quarterly OM&M activities



MEMORANDUM

TO: Carl Hoffman (NYSDEC), Paul Curran (OBG)
FROM: Dharma Iyer and Jennifer Carter (IEG)
DATE: August 1, 2007
RE: OM&M FIELD REPORT – Kessman Landfill, Patterson, NY

DATE ON SITE	July 10-11, 2007
ACTIVITIES	Quarterly OM&M and Water Sampling
FIELD MEASUREMENTS	Ground Water Levels and readings taken from Gas Vents Field Form 1 is attached
	<p>Activities:</p> <ul style="list-style-type: none">• Groundwater samples taken from wells and two surface water samples taken from wetlands pond and surrounding area. <p>Observations:</p> <ul style="list-style-type: none">• Pond water level is very low. Pond is covered with algae and muddy waters. Area beneath Railroad Bridge is clear. No evidence of Beaver dam. There is no water in the wetlands areas to the south of the pond.• Outer and inner access gates are secured and locked with Town of Patterson locks.• PVC caps are broken at wells MW-1A and MW-5 A and B.• Screens are missing from Vents 1, 4 and 6. <p>Recommendations:</p> <ul style="list-style-type: none">• Replace broken PVC caps for three monitoring wells.• Replace screens on three vents
PLANNED ACTIVITIES	➤ Remove carbon filtration drums from site.

FORM 1

CROSS COUNTY SANITATION/KESSMAN LANDFILL

OM&M FIELD MEASUREMENTS

DATE: November 30, 2005 **ACTIVITIES:** Scheduled O & M and water sampling
OUTSIDE TEMP (°F): 50 **WEATHER:** sunny
PERSONS AT SITE: D. Tagliento & J. Carter **EQUIPMENT ON SITE:** Water Level Meter; VRAE
SITE OBSERVATIONS: Some erosion to cap on the south
ACCESS GATE: Both gates secured* **VEGETATION:** Overgrown
FLARE SYSTEM: NA **GAS VENTS/PIPING:** Good condition
CAP: Good condition **LEACHATE:** Still collecting in manhole

MONITORING WELLS									
WELL ID	GROUND ELEV. (ft)	TOR ELEV. (ft)	TOTAL WELL DEPTH (ft)	BOTTOM ELEV. (ft)	10/29/01 (baseline)		TODAY'S READINGS		REMARKS
					(ft)		(ft)		
					Depth to water	Elev.	Depth to water	Elev.	
MW-1A	461.15	463.15	59.40	403.75	16.10	447.05	9.68	453.47	**
MW-1B	461.07	463.01	23.10	439.91	13.00	450.01	3.41	459.60	
MW-3A	432.59	436.07	67.36	368.71	4.80	431.27	1.79	434.28	
MW-3B	432.68	435.78	34.20	401.58	4.47	431.31	2.83	432.95	
MW-5A	431.38	433.84	72.18	361.66	2.50	431.34	1.51	432.33	
MW-5B	431.70	434.35	30.38	403.97	3.30	431.05	1.82	432.53	
MW-20A	431.51	431.29	21.61	409.68	3.10	428.19	2.64	428.65	
MW-20B	430.92	431.17	42.53	388.64	2.60	428.57	1.54	429.63	
Leachate Tank	NA	436.12	Baseline from 08/02		6.60	429.52	5.42	430.70	
Staff Gauge	NA	433.06			0.96	432.10	2.20	430.86	staff gauge is leaning

GAS VENTS					MAINTENANCE/REMARKS
VENT	H2S (ppm)	METHANE (% VOL)	O2 (%)	CO2 (%)	
V-1	0	75	21.1	3	* Both inner and outer access gates are secured with Town of Patterson DPW locks ** both MW 1A & 1B were difficult to locate due to overgrown vegetation
V-2	0	70	12.6	3	
V-3	0	80	17.6	3	
V-4	0	65	20.8	1	
V-5	0	58	10.0	0	
V-6	0	66	20.1	3	
GP-1	NA	NA	NA	NA	
GP-2	NA	NA	NA	NA	
Gate	0	0	0	0	

FORM 1

CROSS COUNTY SANITATION/KESSMAN LANDFILL

OM&M FIELD MEASUREMENTS

DATE:	November 16, 2006	ACTIVITIES:	Scheduled OM&M and sampling
OUTSIDE TEMP (oF):	64	WEATHER:	Overcats
PERSONS AT SITE:	D. Tagliento & J. Carter	EQUIPMENT ON SITE:	Water Level Meter; VRAE
SITE OBSERVATIONS:	Water in pond is very high	VEGETATION:	Overgrown
ACCESS GATE:	Both gates secured	GAS VENTS/PIPING:	Good condition
FLARE SYSTEM:	NA	LEACHATE:	Still collecting in manhole
CAP:	Good condition		

MONITORING WELLS									
WELL ID	GROUND ELEV. (ft)	TOR ELEV. (ft)	TOTAL WELL DEPTH (ft)	BOTTOM ELEV. (ft)	10/29/01 (baseline)		TODAY'S READINGS		REMARKS
					(ft)		(ft)		
					Depth to water	Elev.	Depth to water	Elev.	
MW-1A	461.15	463.15	59.40	403.75	16.10	447.05	11.94	451.21	
MW-1B	461.07	463.01	23.10	439.91	13.00	450.01	7.20	455.81	
MW-3A	432.59	436.07	67.36	368.71	4.80	431.27	2.45	433.62	
MW-3B	432.68	435.78	34.20	401.58	4.47	431.31	3.11	432.67	
MW-5A	431.38	433.84	72.18	361.66	2.50	431.34	1.64	432.20	
MW-5B	431.70	434.35	30.38	403.97	3.30	431.05	1.91	432.44	
MW-20A	431.51	431.29	21.61	409.68	3.10	428.19	2.43	428.86	
MW-20B	430.92	431.17	42.53	388.64	2.60	428.57	1.44	429.73	
Leachate Tank Staff Gauge		436.12	Baseline from 08/02		6.60	429.52	4.68	431.44	
		433.06			0.96	432.10	3.10	429.96	gauge at angle

GAS VENTS					MAINTENANCE/REMARKS
VENT	H2S (ppm)	METHANE (% VOL)	O2 (%)	CO2 (%)	
V-1	0	10	11.9	0	Pond H ₂ O level is very high. At railroad bridge water is within one foot of bottom of bridge. Beaver dam has been re-established under east side of bridge. 8" PVC pipes running from west to east are clogged. No water flow under Beaver Dam.
V-2	0	1	12.9	0	
V-3	0	1	13.1	0	
V-4	0	14	11.7	0	
V-5	0	1	14.0	0	
V-6	0	6	13.5	0	
GP-1	NA	NA	NA	NA	
GP-2	NA	NA	NA	NA	
Gate	0	70	21.0	0	

FORM 1

CROSS COUNTY SANITATION/KESSMAN LANDFILL

OM&M FIELD MEASUREMENTS

DATE:	July 10, 2007	ACTIVITIES:	Scheduled OM&M and sampling
OUTSIDE TEMP (oF):	64	WEATHER:	Hazy'
PERSONS AT SITE:	D. Tagliento & J. Carter	EQUIPMENT ON SITE:	Water Level Meter; VRAE & Water par
SITE OBSERVATIONS:			
ACCESS GATE:	Both gates secured	VEGETATION:	Unmowed; at least 18" high
FLARE SYSTEM:	NA	GAS VENTS/PIPING:	Good condition
CAP:	Good condition	LEACHATE:	Still collecting in manhole

MONITORING WELLS									
WELL ID	GROUND ELEV. (ft)	TOR ELEV. (ft)	TOTAL WELL DEPTH (ft)	BOTTOM ELEV. (ft)	10/29/01 (baseline)		TODAY'S READINGS		REMARKS
					(ft)		(ft)		
					Depth to water	Elev.	Depth to water	Elev.	
MW-1A	461.15	463.15	59.40	403.75	16.10	447.05	13.63	449.52	**
MW-1B	461.07	463.01	23.10	439.91	13.00	450.01	6.95	456.06	**
MW-3A	432.59	436.07	67.36	368.71	4.80	431.27	2.92	433.15	
MW-3B	432.68	435.78	34.20	401.58	4.47	431.31	4.00	431.78	no standing water; location is usually under 6" of water
MW-5A	431.38	433.84	72.18	361.66	2.50	431.34	2.84	431.00	
MW-5B	431.70	434.35	30.38	403.97	3.30	431.05	3.33	431.02	
MW-20A	431.51	431.29	21.61	409.68	3.10	428.19	3.54	427.75	
MW-20B	430.92	431.17	42.53	388.64	2.60	428.57	2.45	428.72	
Leachate Tank		436.12	Baseline from 08/02		6.60	429.52	5.98	430.14	
Staff Gauge		433.06			0.96	432.10	1.95	431.11	

GAS VENTS					MAINTENANCE/REMARKS
VENT	H2S (ppm)	METHANE (% VOL)	O2 (%)	CO2 (%)	
V-1	0	78%	21.1	3.0	* Both inner and outer access gates are secured with Town of Patterson DPW locks Pond's surface water is very low. Pond covered in algae and muddy waters. No water in the wetlands to the south of the pond ** both MW 1A & 1B were difficult to locate due to overgrown vegetation
V-2	0	75%	15.04	3.0	
V-3	0	74%	10.	1.0	
V-4	0	76%	20.8	2.0	
V-5	0	66%	17.08	3.0	
V-6	0	58%	12.03	2.0	
GP-1	NA				
GP-2	NA				
Gate		77%	21.0	0	

FORM 2
CROSS COUNTY SANITATION/KESSEMAN LF
Groundwater Monitoring Well Purging/Sampling
Date Sampled: November 30, 2005

Sample I.D.	DEPTH TO BOTTOM (ft)	DEPTH TO WATER (ft)	HEIGHT OF WC (ft)	MIN. PURGE VOLUME (gal)	Water Quality Parameters				NOTES
					pH (s.u.)	Sp. Cond. (µmhos)	Temp. (°C)	Turbidity (ntu)	
MW-1A	59.4	9.68	44.05	7.2	6.92	2.12	13	NA	
MW-1B	23.1	3.41	5.25	0.9	6.78	1.88	12.6	NA	
MW-3A	67.36	1.79	63.22	10.3	6.88	5.2	13.6	NA	
MW-3B	34.2	2.83	30.39	5.0	6.82	3.6	13	NA	bailed dry
MW-5A	72.18	1.51	70.05	11.4	5.66	1.8	13.2	NA	bailed dry
MW-5B	30.38	1.82	27.87	4.5	6.46	1.34	12.5	NA	water is bright orange
MW-201A	21.61	2.64	19.04	3.1	7.31	0.92	11.6	NA	recharged very quickly
MW-201B	42.53	1.54	40.56	6.6	7.5	0.791	10.5	NA	water is light pink(still showing tracer dye)

FORM 2
CROSS COUNTY SANITATION/KESSMAN LF
Groundwater Monitoring Well Purging/Sampling
Date Sampled: April 13, 2006

Sample I.D.	DEPTH TO BOTTOM (ft)	DEPTH TO WATER (ft)	HEIGHT OF WC (ft)	MIN. PURGE VOLUME (gal)	Water Quality Parameters				NOTES
					pH (s.u.)	Sp. Cond. (µmhos)	Temp. (°C)	Turbidity (ntu)	
MW-1A	59.4	11.43	44.05	7.2	6.9	3.1	13.1	NA	
MW-1B	23.1	9.47	5.25	0.9	6.92	1.68	13.8	NA	
MW-3A	67.36	2.32	63.22	10.3	7	4.2	13.8	NA	
MW-3B	34.2	3.41	30.39	5.0	7.1	4.8	13.3	NA	bailed dry
MW-5A	72.18	2.07	70.05	11.4	6.88	1.62	12.8	NA	bailed dry
MW-5B	30.38	2.38	27.87	4.5	6.76	1.44	12.5	NA	water is bright orange
MW-201A	21.61	3	19.04	3.1	7.12	1.8	13.6	NA	discolored w/red dye, sediment laden
MW-201B	42.53	2	40.56	6.6	7	1.02	13.9	NA	

FORM 2
CROSS COUNTY SANITATION/KESSMAN LF
Groundwater Monitoring Well Purging/Sampling
Date Sampled: November 16, 2006

Sample I.D.	DEPTH TO BOTTOM (ft)	DEPTH TO WATER (ft)	HEIGHT OF WC (ft)	MIN. PURGE VOLUME (gal)	Water Quality Parameters				NOTES
					pH (s.u.)	Sp. Cond. (µmhos)	Temp. (°C)	Turbidity (ntu)	
MW-1A	59.4	11.94	44.05	21.5	6.92	2.51	13.2	1.76	
MW-1B	23.1	7.20	5.25	2.6	6.78	1.57	14.5	1.76	
MW-3A	67.36	2.45	63.22	30.9	6.88	6.46	13.8	1.7	bailed dry
MW-3B	34.2	3.11	30.39	14.9	6.82	5.33	13.5	0.56	bailed dry
MW-5A	72.18	1.64	70.05	34.3	5.66	1.12	13.9	4.96	water is bright orange
MW-5B	30.38	1.91	27.87	13.6	6.46	1.28	12.5	0.99	
MW-20A	21.61	2.43	19.04	9.3	7.16	0.882	14	1.67	discolored w/red dye, sediment laden
MW-20B	42.53	1.44	40.56	19.8	6.95	0.885	13.9	0.1	

FORM 2
CROSS COUNTY SANITATION/KESSMAN LF
Groundwater Monitoring Well Purging/Sampling
Date Sampled: July 11, 2007

Sample I.D.	DEPTH TO BOTTOM (ft)	DEPTH TO WATER (ft)	HEIGHT OF WC (ft)	MIN. PURGE VOLUME (gal)	Water Quality Parameters				NOTES
					pH (s.u.)	Sp. Cond. (µmhos)	Temp. (°C)	Turbidity (ntu)	
MW-1A	59.4	13.63	45.77	22.4	7.19	2.19	12.8	1.1	
MW-1B	23.1	6.95	16.15	7.9	7.85	2.14	15.8	1.06	
MW-3A	67.36	2.92	64.44	31.5	7.19	6.25	17	3.11	kink in pipe, used smaller bailer
MW-3B	34.2	4.00	30.20	14.8	7	10.33	16	5.15	
MW-5A	72.18	2.84	69.34	33.9	7	1.15	16.8	0.57	
MW-5B	30.38	3.33	27.05	13.2	7.13	1.51	15.5	0.75	orange & cloudy w/sediment after 5 bails
MW-20A	21.61	3.54	18.07	8.8	7.04	1.22	14.4	0.6	heavy sediment load after 6 bails
MW-20B	42.53	2.45	40.08	19.6	7.68	1.01	18.3	0.5	

FORM 3
CROSS COUNTY SANITATION/KESSMAN LF
GROUNDWATER/SURFACE WATER/LEACHATE ELEVATIONS

WELL ID	GROUND ELEV. (ft)	TOR ELEV. (ft)	TOTAL WELL DEPTH (ft)	BOTTOM ELEV. (ft)	WATER LEVELS (Elevation in feet)									MINIMUM ELEVATION (ft)	MAXIMUM ELEVATION (ft)	VARIATION (ft)
					PREVIOUS MEASUREMENTS					DURING REPORT PERIOD						
					10/29/01	10/24/02	10/1/03	10/30/04	1/25/05	11/30/05	4/13/06	11/16/06	7/10/07			
MW-1A	461.15	463.15	59.40	403.75	447.05	447.35	451.25	451.17	460.52	453.47	451.72	451.21	449.52	447.1	460.5	-13.5
MW-1B	461.07	463.01	23.10	439.91	450.01	450.73	455.82	455.57	456.63	459.60	453.54	455.81	456.06	450.0	459.6	-9.6
MW-3A	431.82	434.65	67.36	367.29	431.27	432.11	433.65	433.49	433.87	434.28	433.75	433.62	433.15	431.3	434.3	-3.0
MW-3B	432.68	435.78	34.20	401.58	431.31	431.76	432.24	433.64	432.41	432.95	432.37	432.67	431.78	431.3	433.6	-2.3
MW-5A	431.38	433.84	72.18	361.66	431.34	431.48	431.88	431.84	431.99	432.33	431.77	432.20	431.00	431.0	432.3	-1.3
MW-5B	431.70	434.35	30.38	403.97	431.05	431.64	432.03	428.55	432.08	432.53	431.97	432.44	431.02	428.6	432.5	-4.0
MW-20A	431.51	431.29	21.61	409.68	428.19	428.63	428.10	428.29	420.71	428.65	428.29	428.86	427.75	420.7	428.9	-8.2
MW-20B	430.92	431.17	42.53	388.64	428.57	429.05	427.90	429.01	424.97	429.63	429.17	429.73	428.72	425.0	429.7	-4.8
Leachate Tank	436.12				436.12	431.42	430.14	430.28	430.47	430.70	431.07	431.44	430.14	430.1	436.1	-6.0
Staff Gauge	433.06				433.06	432.93	431.38	--	--	430.86	431.31	429.96	431.11	430.0	433.1	-3.1

- Note: 1. All wells and soil gas points were resurveyed in August 2002 after repair work at MW-3A, GP-1 and GP-2
2. Previous elevations at MW-3A were: Ground elev. = 432.59 and Top of Riser elev. = 436.07.

FORM 4A
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED GROUNDWATER, SURFACE WATER AND LEACHATE ANALYTICAL RESULTS
ORGANICS
ROUND: 9 by O'BRIEN & GERE/IEG

DATE: November 4, 2005

PARAMETER	UNITS	GROUND WATER STANDARD	SURFACE WATER STANDARD	SAMPLE LOCATION												
				MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	SW-103	MHC-1
pH (field; s.u.)	s.u.			6.92	6.78	6.88	6.82	5.66	6.46	7.31	7.5				NS	NS
Temperature (field)	oF			13	12.6	13.6	13	13.2	12.5	11.6	10.5					
Specific Conductivity	umhos			2.12	1.88	5.2	3.6	1.8	1.34	0.92	0.79					
VOLATILE ORGANICS																
Vinyl Chloride		2											3.25			
Methylene chloride		5									0.10 J					
1,1-Dichloroethane		5	5							1.55	1.82	0.24 J				
cis 1,2-Dichloroethene (DCE)	µg/L	5	5							0.23 J	0.26 J		15			
1,2-Dichloroethane		0.6	0.6							1.18	1.41					
Benzene		1	1							0.40 J	0.47 J					
Toluene		5	5									0.6	0.12 J			
Isopropylbenzene		5								0.49 J	2.9					
TOTAL VOCs	µg/L			NS	NS	NS	NS	NS	NS	3.85	6.96	0.84	18.37	0.00		

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; ND = non-detect; Inst.Er. = Instrument Error
3. Surface water samples labeled previously as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
4. GW & SW Standards based on NYSDEC TAGMs

FORM 4A
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED GROUNDWATER, SURFACE WATER AND LEACHATE ANALYTICAL RESULTS
ORGANICS

ROUND: 10 by O'BRIEN & GERE/IEG

DATE: November 16, 2006

PARAMETER	UNITS	GROUND WATER STANDARD	SURFACE WATER STANDARD	MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	SAMPLE LOCATION							
									MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	SW-4	MHC
VOLATILE ORGANICS																
Vinyl Chloride		2						0.20 J	0.19 J	0.14 J	0.13 J					
Methylene chloride		5							0.15 J							
Acetone		50						2.09 J	2.20 J	1.05 J		1.85 J	1.81 J	1.42 J	1.61 J	1.33 J
Chloroethane		5							0.97 J	0.39 J		0.26 J				0.49 J
trans 1,2-Dichloroethene (DCE)		5	5													
Methylcyclohexane		na														0.38 J
1,1-Dichloroethane		5	5							0.41 J	1.29	1.13				
methyl-t-butyl ether		ns	ns					0.24 J								0.12 J
cis 1,2-Dichloroethene (DCE)		5	5					0.11 J	0.5	0.21 J	0.16 J		0.17 J	0.15 J		0.11 J
trans-1,2-Dichloroethene		5														
1,2-Dichloroethane	µg / L	0.6	0.6	ND	ND	ND					1.66	1.37				
1,2-Dichloropropane		1														
Benzene		1	1					0.44 J	1.03	0.41 J	0.32 J					2.9
Toluene		5	5												0.33 J	0.12 J
Ethylbenzene		5	5													
Chlorobenzene		5	5					3.77	5.94							11.6
Cyclohexane		na														0.42 J
Isopropylbenzene		5						0.13 J	0.14 J		0.5					1.9
1, 3-Dichlorobenzene		3						0.22 J	0.10 J							
1, 4-Dichlorobenzene		3						1.17	1.22							2.7
1,2-Dichlorobenzene		3						1.01	0.79							0.37 J
Xylene		5														0.53 J
TOTAL VOCs	µg / L			0	0	0	0.24	9.14	13.64	5.15	3.61	2.11	1.98	1.57	1.94	22.97

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; ND = non-detect; Inst.Er. = Instrument Error
3. Surface water samples labeled previously as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
4. GW & SW Standards based on NYSDEC TAGMs

FORM 4A
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED GROUNDWATER, SURFACE WATER AND LEACHATE ANALYTICAL RESULTS
ORGANICS
ROUND: 11 by O'BRIEN & GERE/IEG

DATE: July 11, 2007

PARAMETER	UNITS	GROUND WATER STANDARD	SURFACE WATER STANDARD	SAMPLE LOCATION											
				MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	MHC
VOLATILE ORGANICS															
Vinyl Chloride		2											20.5		
Methylene chloride		5					0.80 J								
Acetone		50			1.58 J		2.51 J						5.37 J	6.59 J	
Chloroethane		5							0.79 J				0.89 J		
trans 1,2-Dichloroethene (DCE)		5	5												
Methylcyclohexane		na						0.10 J					0.75		0.49 J
1,1-Dichloroethane		5	5						0.45 J	1.31	1.52		0.12 J		
methyl-t-butyl ether		ns	ns			0.19 J	2.13		0.13 J			0.11 J			0.21 J
cis 1,2-Dichloroethene (DCE)		5	5					0.21 J	0.5	0.27 J	0.33 J		18.5		0.11 J
trans-1,2-Dichloroethene		5													
Trichloroethene	µg / L	5		ND									0.28 J		
1,2-Dichloroethane		0.6	0.6							1.8	1.87				
1,2-Dichloropropane		1													
Benzene		1	1					1.02	0.89	0.48 J	0.49 J		2.3		3.5
Toluene		5	5						0.49 J		0.11 J		3.11	9.11	0.12 J
Ethylbenzene		5	5						0.10 J				0.13 J		
Chlorobenzene		5	5					6.32	3.22				3.3		14.1
Cyclohexane		na						0.16 J					0.24 J		0.45 J
Isopropylbenzene		5						0.25 J			1.6		0.9		2.2
1, 3-Dichlorobenzene		3						0.39 J							
1, 4-Dichlorobenzene		3					0.11 J	2.11	0.45 J				0.7	0.11 J	3.1
1,2-Dichlorobenzene		3						1.49	0.28 J				0.14 J		0.31 J
Xylene		5							0.41 J				1.1		0.56 J
TOTAL VOCs	µg / L			0	1.58	0.19	5.55	12.05	7.71	3.86	5.92	0.11	58.32	15.81	25.15

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; ND = non-detect; Inst.Er. = Instrument Error
3. Surface water samples labeled previously as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
4. GW & SW Standards based on NYSDEC TAGMs

FORM 4A
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANICS AND PCBs
ROUND: 12 by O'BRIEN & GERE/IEG

DATE: August 22, 2007

PARAMETER	UNITS	SURFACE WATER STANDARD	SW-2	SW-3	SW-4	SED-2	SED-3	SED-4
VOLATILE ORGANICS								
Vinyl Chloride				20.5				
Acetone			3.73	3.18	3.93			
Chloroethane				2.26	0.26			
Methylcyclohexane				1.09				
1,1-Dichloroethane		5		0.16				
cis 1,2-Dichloroethene (DCE)		5		15.1				
1,2-Dichloroethane		0.6						
Dichlorodifluoromethane				0.42				
Benzene	µg / L	1		4.47		NA	NA	NA
Toluene		5		1.63	0.13			
Ethylbenzene		5		0.11				
Chlorobenzene		5		6.49				
Cyclohexane				0.54				
Isopropylbenzene				1.42				
1, 4-Dichlorobenzene				1.180				
1,2-Dichlorobenzene				0.17				
Xylene				1.32				
TOTAL VOCs	µg / L		3.73	60.04	4.32			
TOTAL PCBs	mg/Kg		NA	NA	NA	3.51	23.20	2.21

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; ND = non-detected
4. SW Standards based on NYSDEC TAGMs

FORM 4B
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED GROUNDWATER, SURFACE WATER AND LEACHATE ANALYTICAL RESULTS
FIELD PARAMETERS, INDICATOR PARAMETERS AND METALS
ROUND: 10 by O'BRIEN & GERE/IEG

DATE: November 16, 2006

PARAMETER	UNITS	GROUND WATER STANDARD	SURFACE WATER STANDARD	SAMPLE LOCATION												
				MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	SW-4	MHC
pH (field)	s.u.			6.92	6.78	6.88	6.82	5.66	6.46	7.16	6.95					
Temperature (field)	oF			13.2	14.5	13.8	13.5	13.9	12.5	14	13.9					
Specific Conductivity	umhos			2.51	1.57	6.46	5.33	1.12	1.28	0.882	0.885					
TSS	mg/L	ns		38	8	19	9	190	71000	8900	11	40	15	22	41	60
TOC	mg/L	ns		1.3	1.7	1.1	2.2	10	570	5.4	4.8	6.3	6.6	6.6	9.2	6.3
BOD5	mg/L	ns						19	6.2			6.5	5.3	5.3	6.8	15
COD	mg/L	ns			11	20	24	86	600	100	14	26	49	34	34	47
Chlorides	mg/L	250000		700	510	1800	2300	18	51	48	48	170	200	190	510	340
Aluminum	µg / L	ns	100	863.0	27.6 B	173 B	32.8 B	1630	73700	55500	578	1230	29.4 B	19.1 B	122 B	249.0
Antimony	µg / L	3	30					2.4 B				2.4 B				
Arsenic	µg / L	25	50					12.6	13.9	14.9	1.8 B					
Barium	µg / L	1000	1000	176 B	98.7 B	462	638	174 B	654	346	76.5 B	135 B	134	117 B	128 B	367
Beryllium	µg / L	1100		0.080 B					2.0 B	1.7 B						
Cadmium	µg / L	5		1.2 B		4.2 B	0.68 B	563	1.8 B	1.2 B	2.0 B					
Calcium	µg / L	na		85900	183000	291000	356000	97400	642000	229000	71200	57700	52600	57100	66400	131000
Chromium	µg / L	50	50	5.7 B	4.1 B	4.1 B	4.2 B	4.1 B	242	73	5.2 B					1.9 B
Cobalt	µg / L	5							59.8	43.1 B						
Copper	µg / L	200		3.3 B	1.1 B	4.8 B	1.8 B	78.2	135	74.2	1.1 B	3.2 B	0.54 B		1.8 B	0.63 B
Iron	µg / L	300	300	1500	152	846	1730	18900	129000	104000	3840	5240	1040	472	8300	59200
Lead	µg / L	25	50	1.4 B				5.9	46	34.6		2.6 B			1.7 B	2.1 B
Magnesium	µg / L	35000		57700	77700	175000	220000	103000	179000	165000	68600	15000	15100	14600	20800	31500
Manganese	µg / L	300	300	45	5.3 B	147	77.2	369	8740	2630	80.2	668.0	564	1350	1450	1110
Mercury	µg / L	0.7		0.014 B		0.014 B	0.014 B	0.017 B	0.071 B	0.047 B	0.018 B	0.017 B	0.012 B	0.015 B	0.014 B	
Nickel	µg / L	100	100	2.7 B	1.6 B	4.4 B	1.0 B	121	117	85	1.9 B	2.3 B	0.97 B		1.3 B	2.5 B
Potassium	µg / L	na		7900	10200	40600	30700	11200	32000	30000	15600	6480	7190	6380	7930	7030
Selenium	µg / L	10														
Silver	µg / L	50														
Sodium	µg / L	20000		409000	113000	587000	740000	29700	65900	29600	27500	105000	118000	104000	322000	177000
Thallium	µg / L	8														
Vanadium	µg / L	14		3.0 B				3.3 B	110	86	0.90 B	2.2 B			1.0 B	1.9 B
Zinc	µg / L	66		15.9 B	31	50	22.7	181	312	239	19.5 B	55	15.2 B	15.2 B	18.4 B	16.1 B

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; Inst.Er. = Instrument Error
3. Surface water samples labeled previously as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
4. GW & SW Standards based on NYSDEC TAGMs

FORM 4B
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
DETECTED GROUNDWATER, SURFACE WATER AND LEACHATE ANALYTICAL RESULTS
FIELD PARAMETERS, INDICATOR PARAMETERS AND METALS
ROUND: 11 by O'BRIEN & GERE/IEG

DATE: July 11, 2007

PARAMETER	UNITS	GROUND WATER STANDARD	SURFACE WATER STANDARD	SAMPLE LOCATION											
				MW-1A	MW-1B	MW-3A	MW-3B	MW-5A	MW-5B	MW-20A	MW-20B	SW-1	SW-2	SW-3	MHC
pH (field; s.u.)	s.u.			7.19	7.85	7.19	7.00	7.00	7.13	7.04	7.68				
Temperature (field)	oF			12.8	15.8	17	16	16.8	15.5	14.4	18.3				
Specific Conductivity	umhos			2.19	2.14	6.25	10.33	1.15	1.51	1.22	1.01				
TSS	mg/L	ns		9	250	12	79	26	270	18000	10	540	71	110	84
TOC	mg/L	ns		2.3	43	2.1	4.3	6.7	37	6.5	5	15	10	22	8.6
BOD5	mg/L	ns			6.7			9.5	5.4	5.8		15		41	12
COD	mg/L	ns		11	94	33	35	24	220	42	13	230	33	72	92
Chlorides	mg/L	250000		570	590	2100	4000	15	47	45	44	1600	270	970	800
Aluminum	µg / L	ns	100	30.9	2700	99.7 B	1320	140 B	5570	32600	22.0 B	4950	235	3100	
Antimony	µg / L	3	30		4.0 B					2.5 B		3.3 B			2.1 B
Arsenic	µg / L	25	50					8.2 B	3.2 B	9.8 B	2.5 B	28.0		4.5 B	
Barium	µg / L	1000	1000	85.7 B	119 B	469	810	132 B	121 B	226	64.0 B	309	667	447	462
Beryllium	µg / L	1100							0.16 B	0.95 B		0.21 B			
Cadmium	µg / L	5								0.77 B	1.9 B				
Calcium	µg / L	na		181000	45700	285000	344000	87700	154000	124000	59300	97600	115000	82500	130000
Chromium	µg / L	50	50	5.0 B	7.7 B	2.6 B		6.1 B	23.4	47	6.0 B	10.4	3.8 B	4.4 B	2.8 B
Cobalt	µg / L	5			2.7 B				3.2 B	21.6 B		4.4 B			
Copper	µg / L	200			11.1 B	2.3 B	8.8 B	2.0 B	9.6 B	45.6	1.6 B	32	1.5 B	6.1 B	
Iron	µg / L	300	300	61.4 B	10600	2870	11400	10200	12600	58900	2540	98500	38400	19400	66200
Lead	µg / L	25	50		2.1 B		2.5 B		3.4	16.7		24.5		5.8	
Magnesium	µg / L	35000		79000	37200	181000	304000	82400	77600	115000	67100	35600	42200	30800	42300
Manganese	µg / L	300	300	1.8 B	116.0	756	351	114	893	1160	18.2	2730.0	631	925	571
Mercury	µg / L	0.7								0.012 B		0.064 B		0.010 B	
Nickel	µg / L	100	100	1.5 B	7.1 B	1.7 B	4.6 B	4.3 B	12.7 B	48	2.2 B	12.2 B	4.7 B	5.7	1.8 B
Potassium	µg / L	na		10500	6430	42300	43800	11000	13800	24000	14700	2180 B	12000	10700	11900
Selenium	µg / L	10										6			2.4 B
Silver	µg / L	50										2.5 B			
Sodium	µg / L	20000		125000	317000	723000	1650000	24000	57800	24400	24100	1020000	136000	593000	358000
Thallium	µg / L	8													
Vanadium	µg / L	14			8.0 B		2.0 B		8.2 B	49.8 B		14.0 B		4.2 B	
Zinc	µg / L	66		9.1 B	23	20	35.4	14.0 B	31.6	140	9.1 B	223	9.8 B	42.5	10.9 B

- NOTES: 1. Only detected values are reported
2. NS = Not Sampled; Inst.Er. = Instrument Error
3. Surface water samples labeled previously as follows: SW-2 as SW-10, SW-3 as SW-12, and SW-103 as SW-13
4. GW & SW Standards based on NYSDEC TAGMs

FORM 5
CROSS COUNTY SANITATION/KESSMAN LF
SURVEY DATA FOR WATER LEVEL MEASUREMENTS
(August 2002)

WELL ID	Surveyed Coordinates		GROUND ELEV. (ft)	TOP OF CASING ELEV. (ft)	TOP OF RISER ELEV. (ft)	TOTAL WELL DEPTH (ft)	BOTTOM ELEV. (ft)
	Easting (X)	Northing (Y)					
MW-1A	697901.7	546375.5	461.15	463.52	463.15	59.40	403.75
MW-1B	697902.4	546364.2	461.07	463.21	463.01	23.10	439.91
MW-3A	698636.5	545975.9	431.82	435.01	434.65	67.36	367.29
MW-3B	698623.9	545972.5	432.68	436.08	435.78	34.20	401.58
MW-5A	698576.7	546842.9	431.38	434.01	433.84	72.18	361.66
MW-5B	698563.9	546849.8	431.70	434.49	434.35	30.38	403.97
MW-20A	698754.7	546507.8	431.51	434.09	431.29	21.61	409.68
MW-20B	698751.1	546516.5	430.92	433.68	431.17	42.53	388.64
GP-1	698349.6	546585.4	436.08	439.80	439.58	-	-
GP-2	699010.2	547304.6	435.56	437.44	437.12	-	-
LEACHATE TANK	698803.6	546357.3	436.12	TOP OF MANHOLE RIM			
STAFF GAUGE	698781.5	546523.1	433.06	TOP OF STAFF GAUGE			

Note: 1. All wells and soil gas points were resurveyed in August 2002 after repair work at MW-3A, GP-1 and GP-2
2. Previous elevations at MW-3A were: Ground elev. = 432.59 and Top of Riser elev. = 436.07.

FORM 6
CROSS COUNTY SANITATION/KESSMAN LANDFILL OM&M
CHECKLIST FOR FIELD EQUIPMENT/SUPPLIES

Multigas meter
Well and leachate tank keys, spare locks
Spec. Cond., pH, Temp. meter
Water level meter
Tool box including crowbar
Distilled water
Container for purge water
Field Data forms
As-built drawing
Ice
Tape Measure/stick
Disposable bailers
Rope for bailers
Generator
Well pump
Tubing
Paper towel, flashlight, extension cord
Gloves, markers, clear tape
Sample containers/preservatives from lab
Labels
Sample coolers from lab

**CROSS COUNTY SANITATION/KESSMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

OM&M REPORT

**ATTACHMENT C
GROUNDWATER CONTOUR PLOTS**

**FIGURE C-1
KESSMAN LANDFILL OM&M
GROUND SURFACE CONTOUR (8/2002 Survey)**

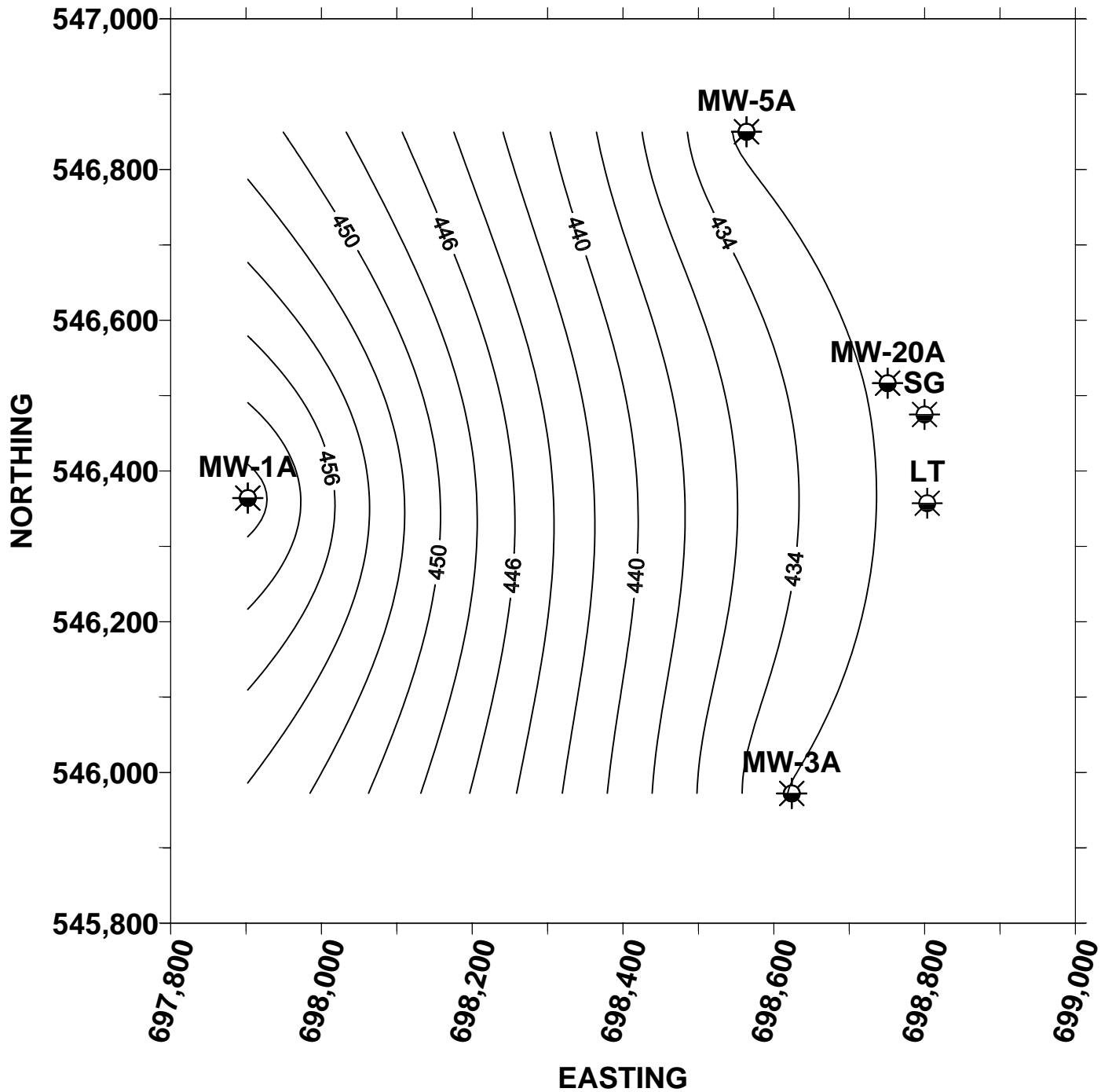


FIGURE C-2
KESSMAN LANDFILL OM&M
GROUNDWATER CONTOUR : Baseline 10/01
SHALLOW WELLS

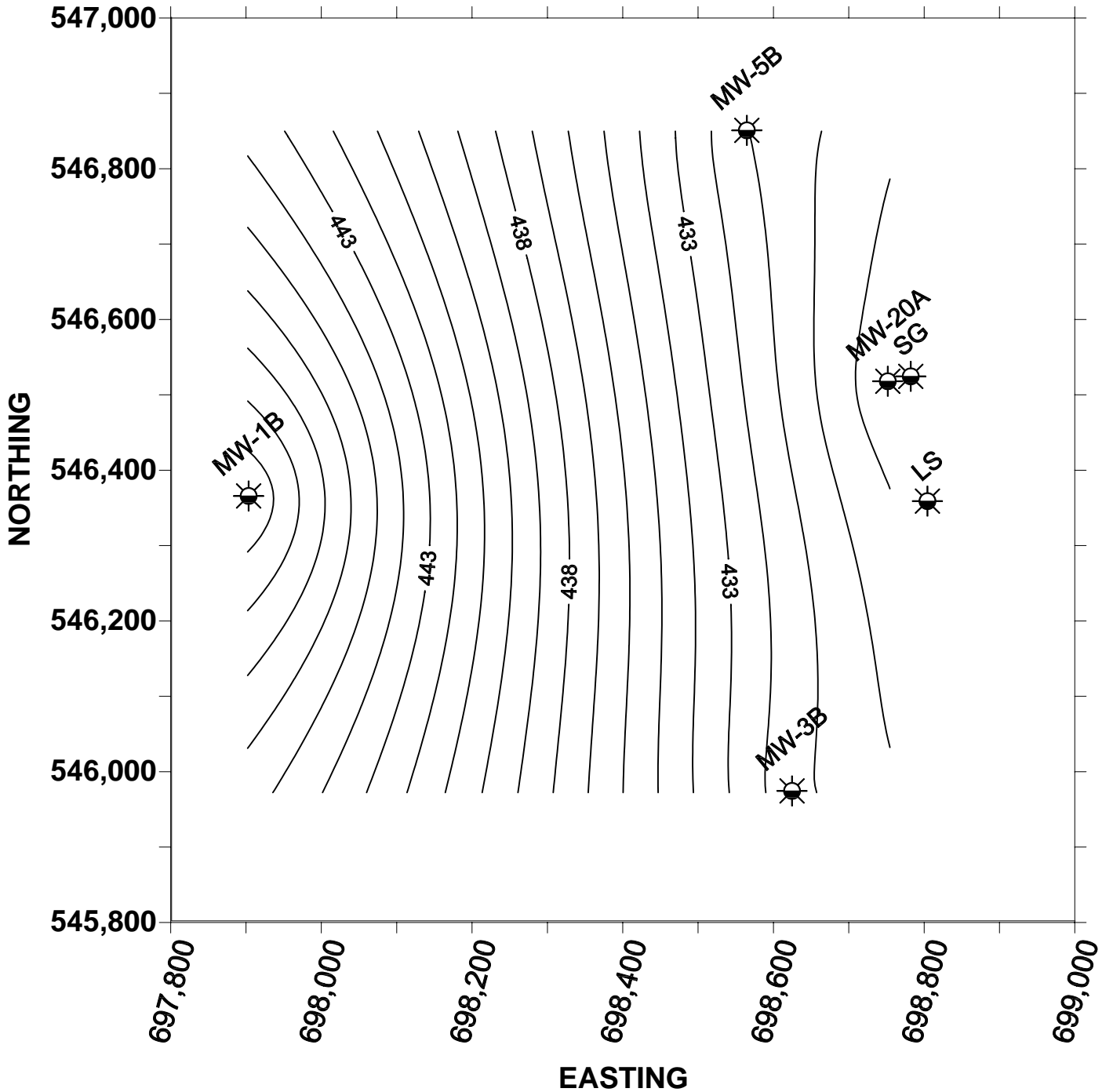


FIGURE C-2
KESSMAN LANDFILL OM&M
GROUNDWATER CONTOUR : Baseline 10/01
DEEP WELLS

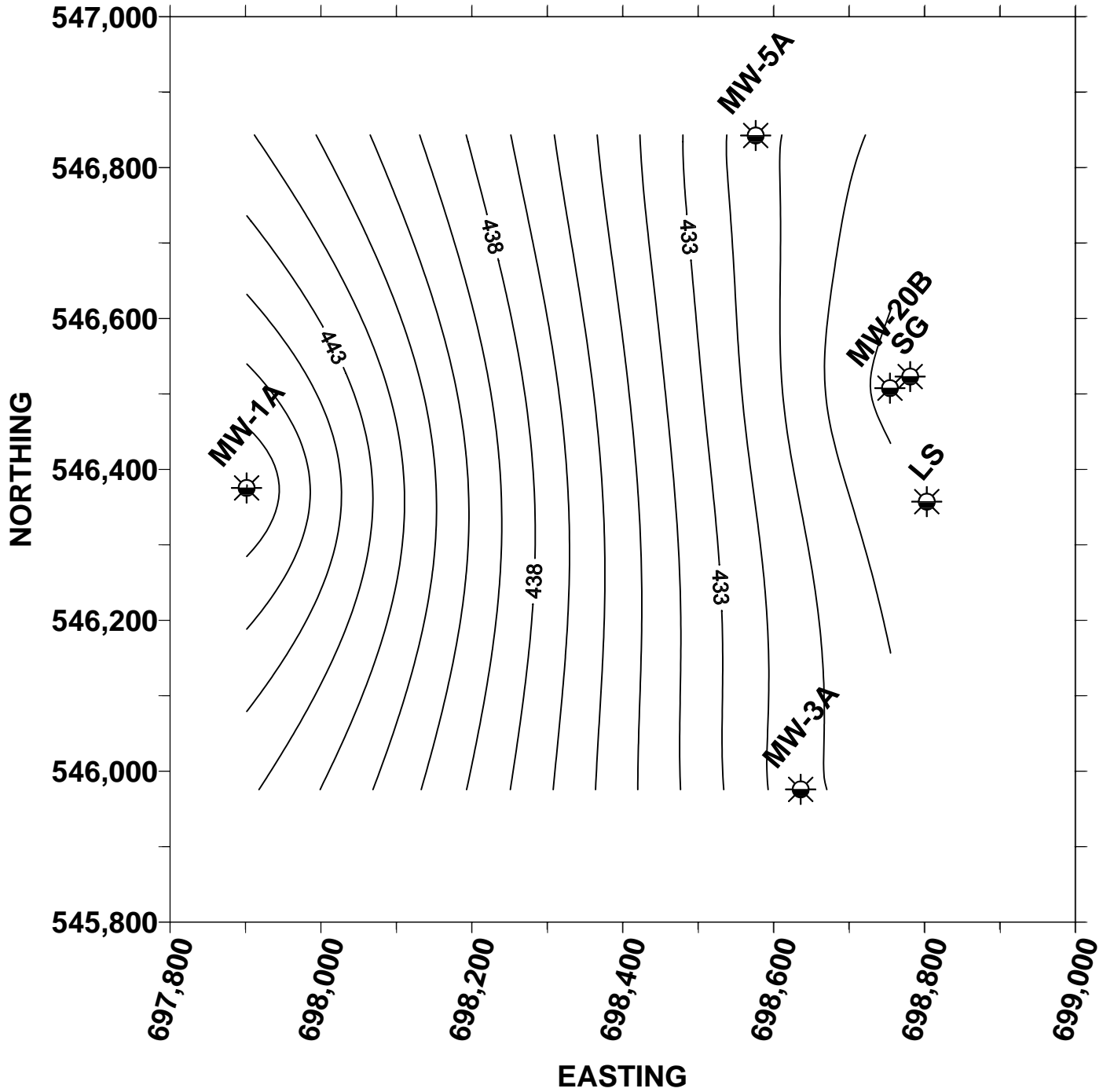


FIGURE C-3
KESSEMAN LANDFILL OM&M
SHALLOW GROUNDWATER CONTOUR : 11/30/05

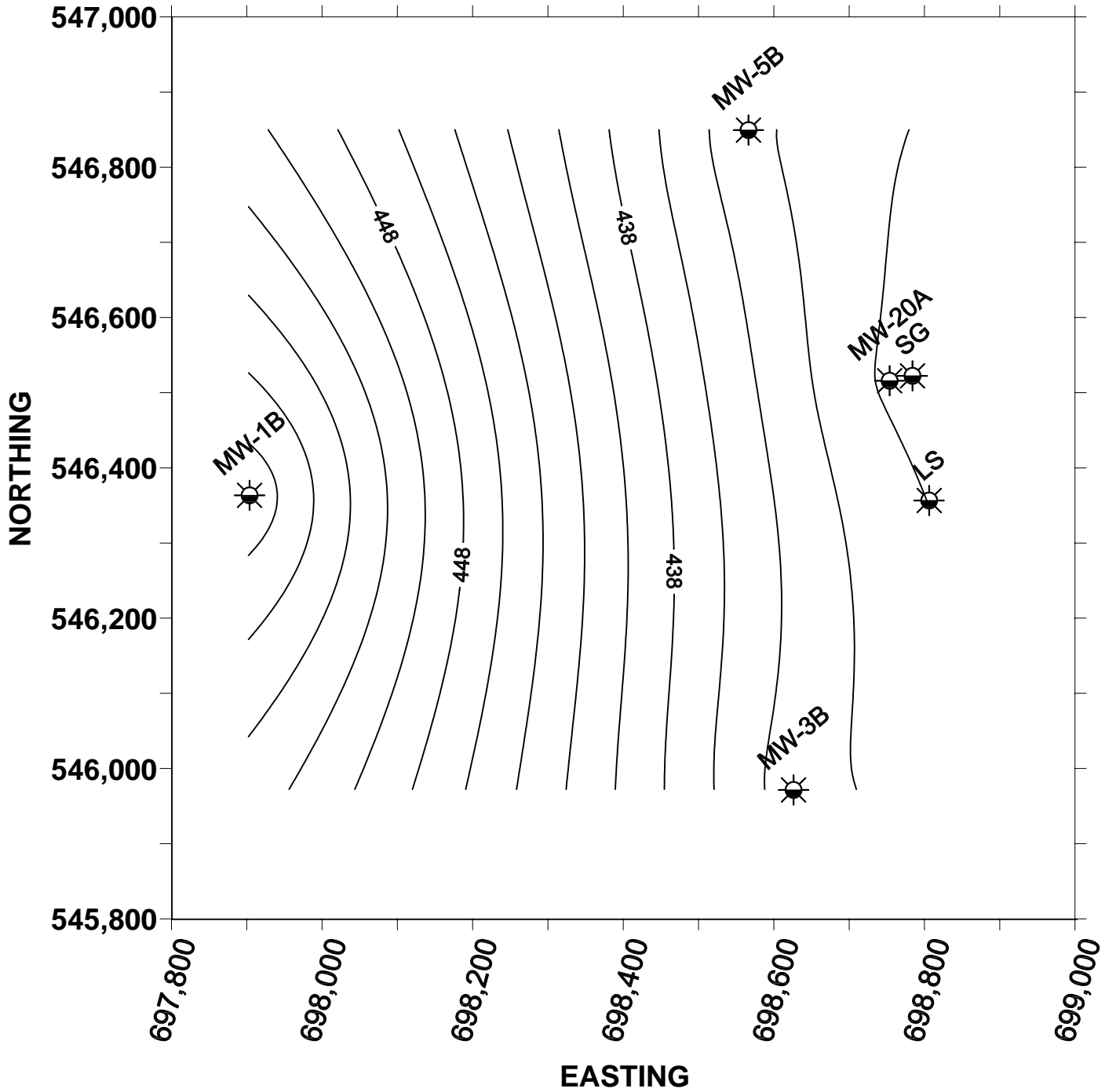


FIGURE C-3
KESSMAN LANDFILL OM&M
SHALLOW GROUNDWATER CONTOUR : 4/13/06

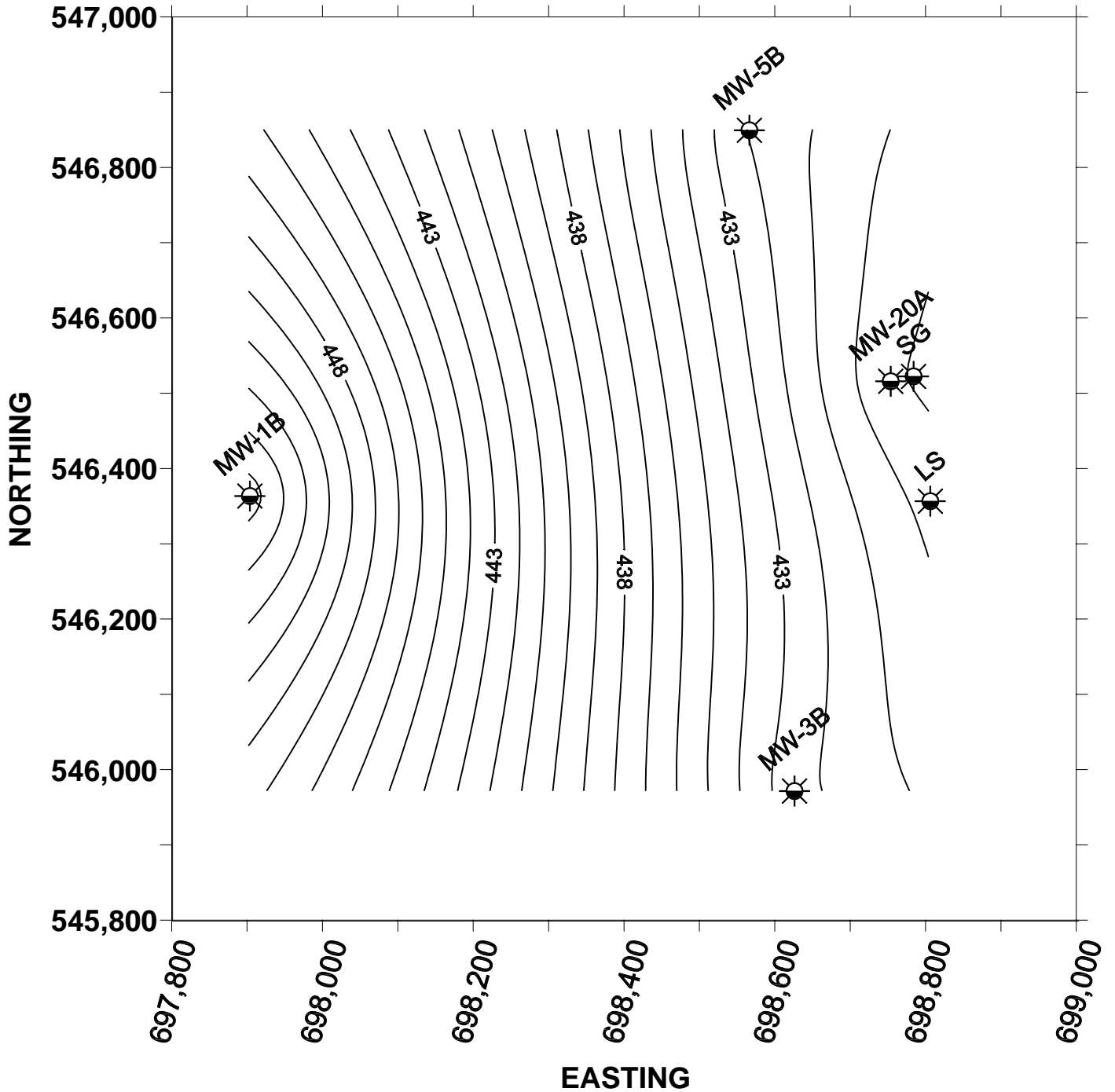


FIGURE C-3
KESSMAN LANDFILL OM&M
SHALLOW GROUNDWATER CONTOUR : 11/16/06

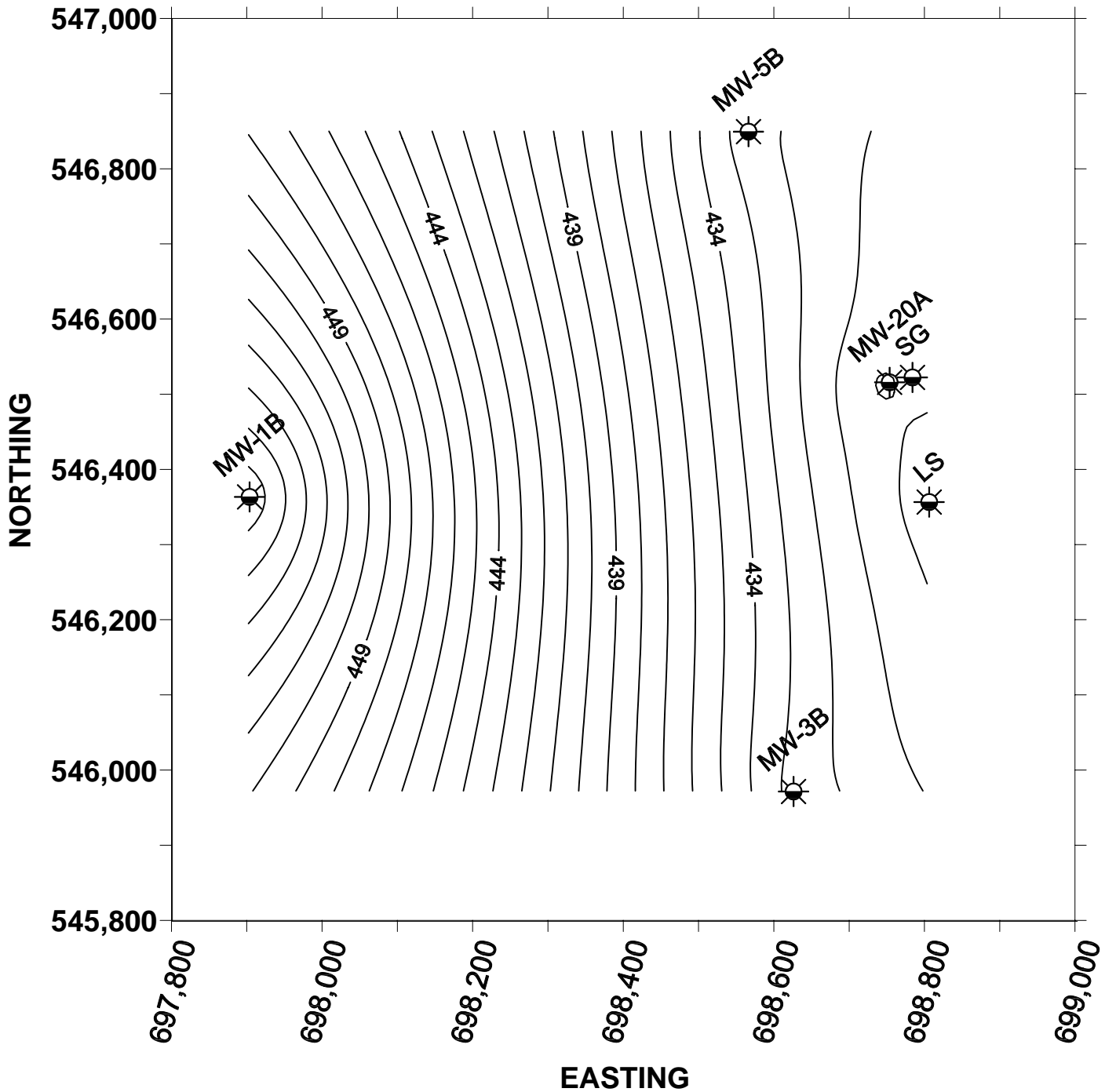


FIGURE C-3
KESSMAN LANDFILL OM&M
SHALLOW GROUNDWATER CONTOUR : 7/10/07

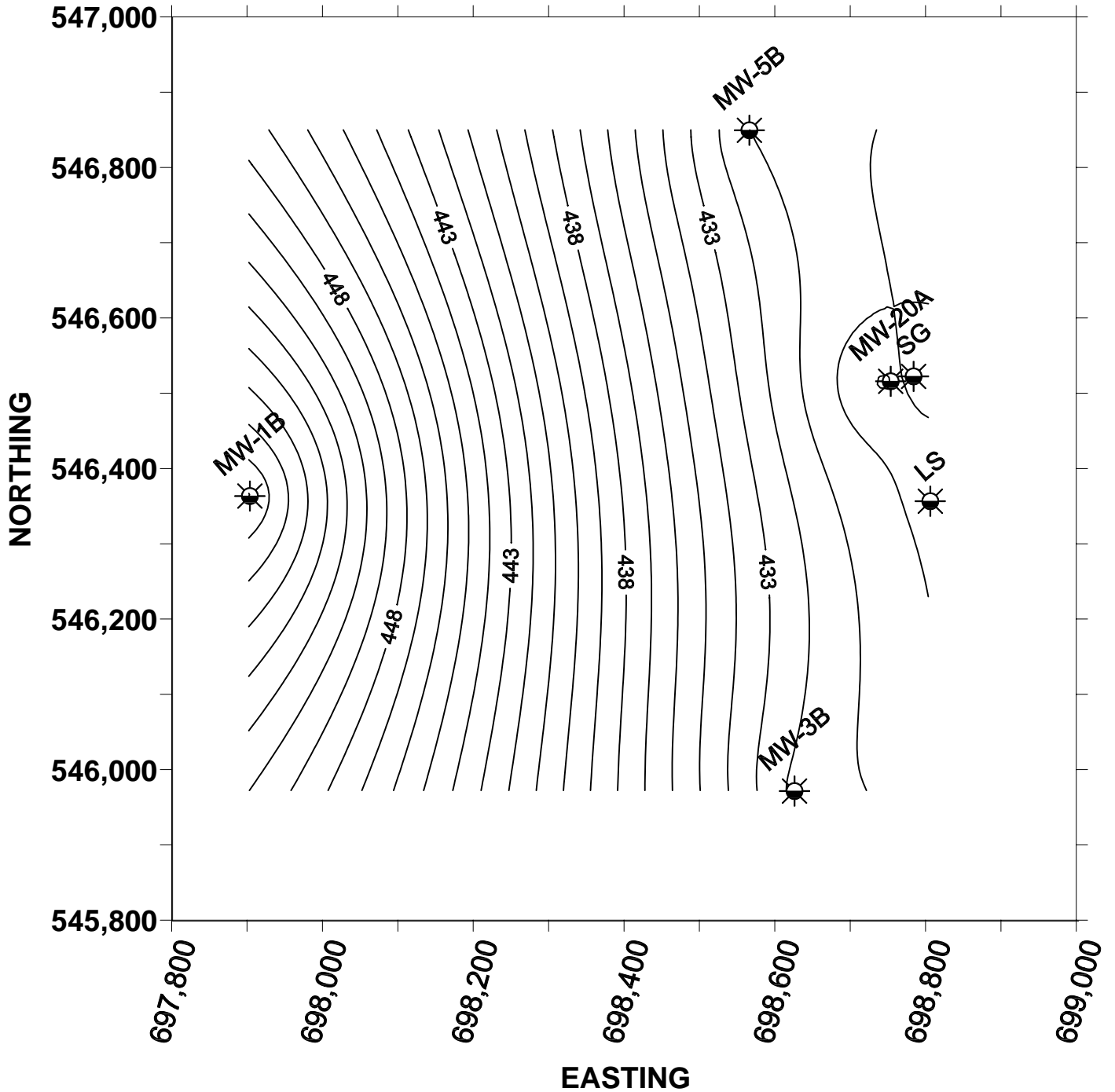


FIGURE C-4
KESSMAN LANDFILL OM&M
DEEP GROUNDWATER CONTOUR : 11/30/05

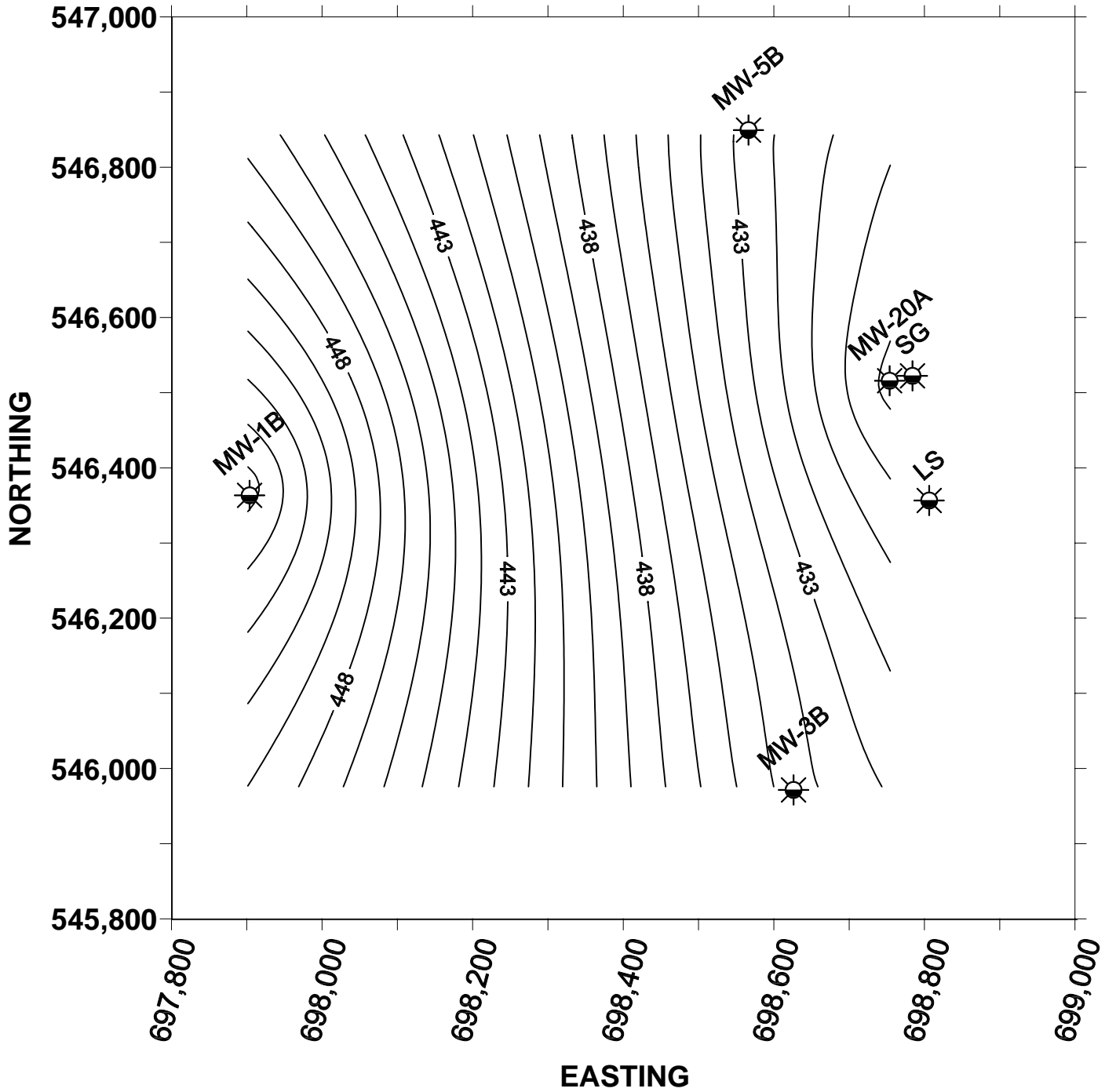


FIGURE C-4
KESSMAN LANDFILL OM&M
DEEP GROUNDWATER CONTOUR : 4/13/06

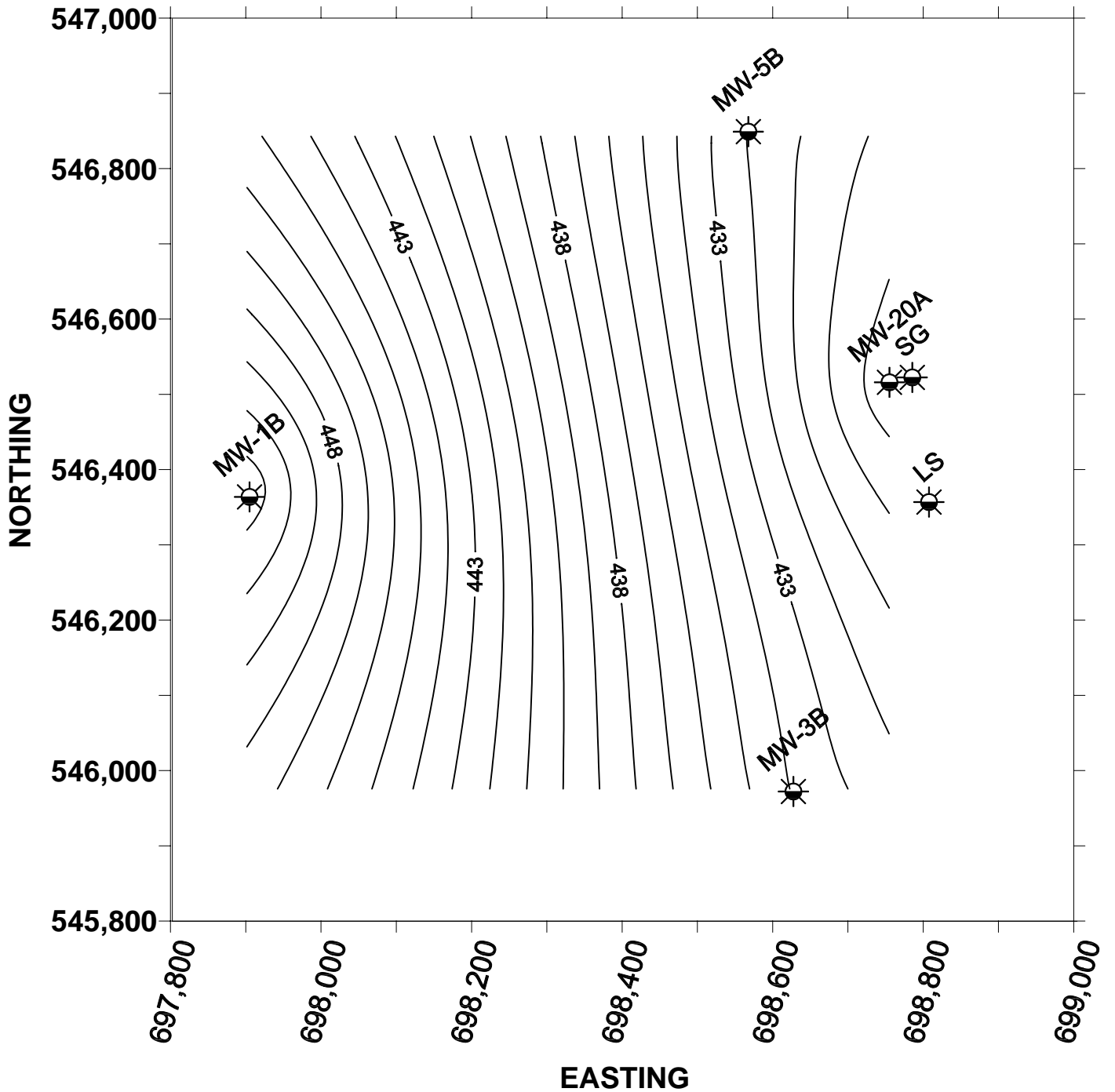


FIGURE C-4
KESSEMAN LANDFILL OM&M
DEEP GROUNDWATER CONTOUR : 11/16/06

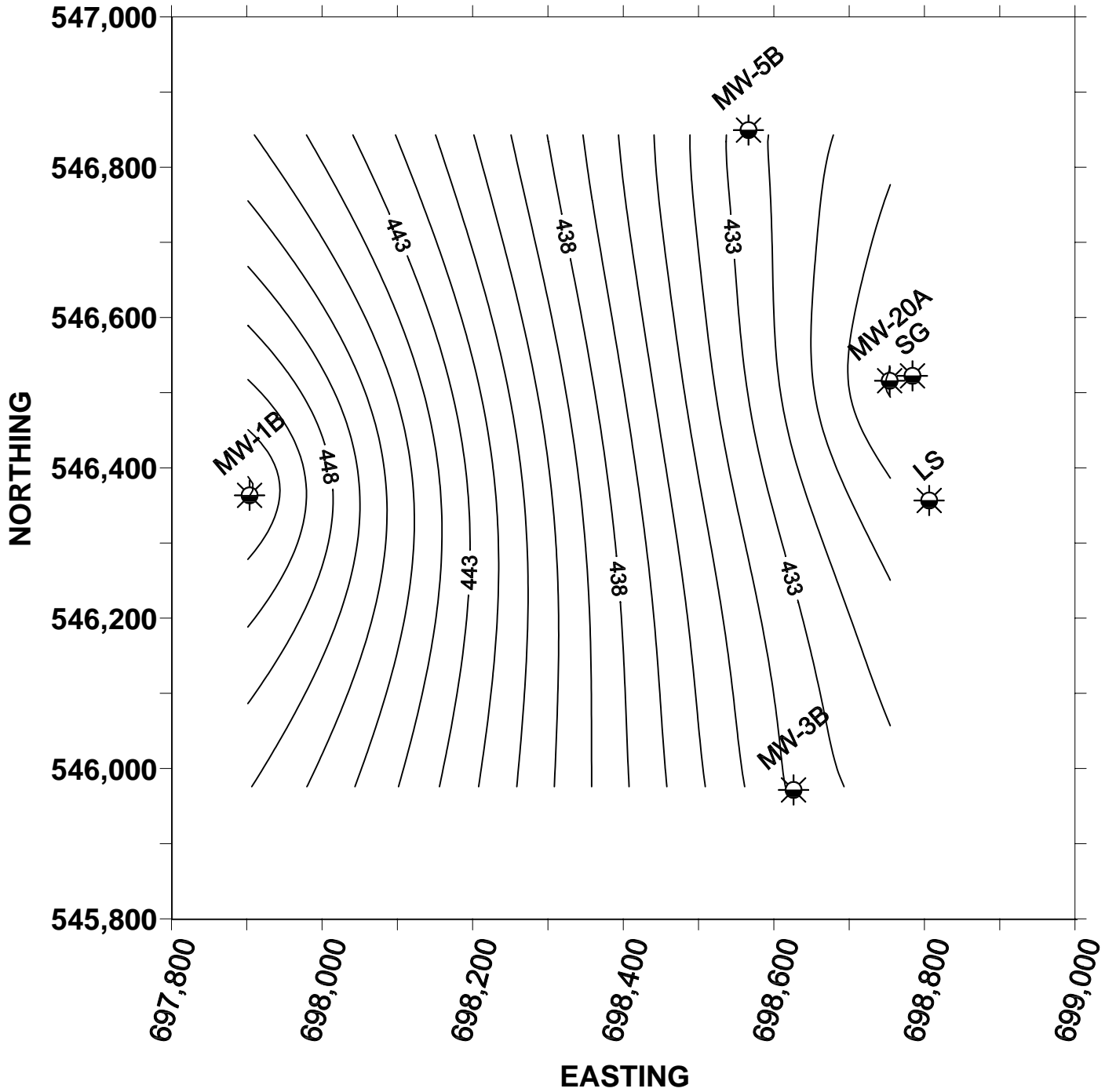
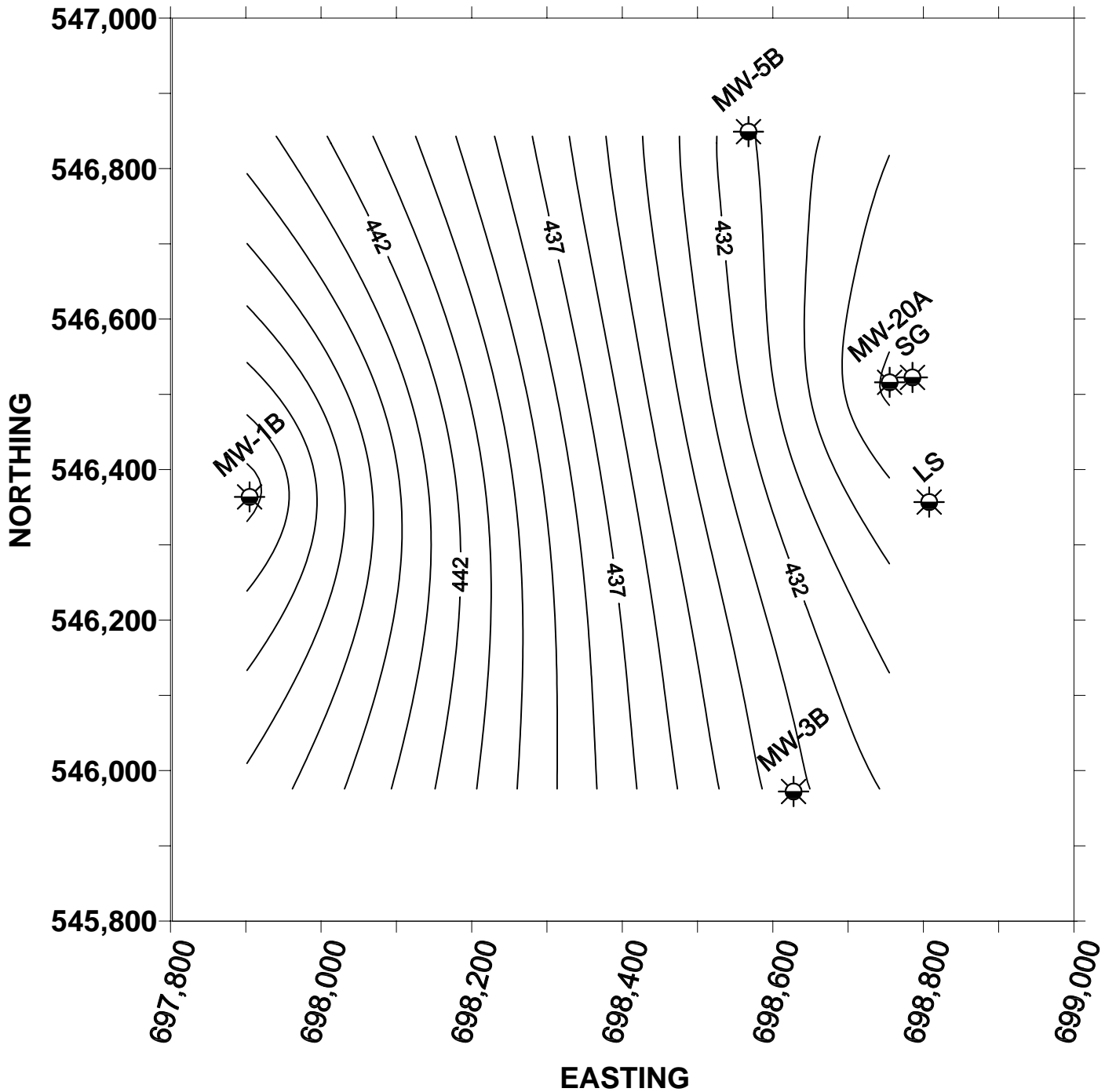


FIGURE C-4
KESSEMAN LANDFILL OM&M
DEEP GROUNDWATER CONTOUR : 7/10/07



**CROSS COUNTY SANITATION/KESSEMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

OM&M REPORT

**ATTACHMENT D-1
BIOTA SAMPLING REPORT – August 2005**

From: Steve Mooney
Re: Kessman Landfill – Biota Sampling
File: 10653/30499
Date: August 31, 2005

cc: Paul Curran OBG (Albany)
Dharma Ieyr – IEG
Abby Morton – OBG

Introduction

The purpose of this memorandum is to report the findings of a biota sampling event performed at the Kessman Landfill Site located on Cornwall Hill Road in the Town of Patterson, Putnam County, New York. The one-day sampling event was performed by Steve Mooney and Abby Morton of O'Brien & Gere on June 30, 2005 at the request of the New York State Department of Environmental Conservation (NYSDEC). The primary objective of the sampling was to assess if polychlorinated biphenols (PCBs) detected in surface water and sediment samples historically collected from the pond immediately adjacent to the landfill have bioaccumulated in biota inhabiting the pond. Dan Tagliento of Iyer Environmental Group (IEG) was onsite to collect surface water samples. Carl Hoffman, of the NYSDEC, was also present to observe the sampling efforts.

Observations and Methods

The physical habitat quality of the pond, apparently functioning as a marsh-type wetland, was generally good. The majority of the open water area was vegetated with submerged aquatic vegetation. The fringes of the pond were vegetated with emergent species including cattail (*Typha* spp.) and common reed (*Phragmites*). The surface water of the pond was approximately 0.5-2 feet deep (the staff gauge was missing). It is our understanding that the water level is maintained at this relatively low level by the dam under the railroad bridge to the north. Beaver dams at the bridge tend to raise the water level as much as three to four feet, but are removed periodically by the railroad company. Also, the recent lack of precipitation and long periods of relatively high ambient temperatures (>90°) likely effect the water level.

Water quality readings (see Table 1) reflect low dissolved oxygen levels in the SW2 and SW3 sample locations. As result there were very few fish observed. The lack of surface water inputs (*e.g.*, recent decreased runoff and the lack of connecting tributaries) and flow make it difficult for the pond to maintain a water depth suitable for larger species of fish. Numerous frogs were heard calling and multiple species of song and wading birds were observed prior to the sampling. A muskrat (*Ondatra zibethicus*) was also observed in the pond. Attachment A presents representative photographs of the pond.

Prior to the biota sampling, O'Brien & Gere assisted Mr. Tagliento with the collection of two of the four surface water samples collected from the pond (SW2 and SW3), and also recorded water quality measurements from the pond using a Horiba U-10 meter. The recordings are presented in Table 1. In accordance with the applicable regulations (6NYCRR Part 175), O'Brien & Gere obtained a NYSDEC License to Collect and Possess (License #462) on June 20, 2005 for the biota sample collection. A backpack electro-shocking unit was used as the primary collection method. Three minnow traps were also placed in the pond for the sampling period.

For the purposes of this effort, the pond was divided into two sections: the northern portion and the southern portion. Areas where PCBs had reportedly been detected (nearest the landfill) were sampled first, followed by the remainder of the pond edges and finally the center of the pond.

Golden shiners (*Notemigonus crysoleucas*) were the only species of fish observed in the pond. As shown on Table 2, the biota collection was limited; only 14 individuals of relatively small fish (less than 3 inches) were collected. Due to the mass of the tissue required for laboratory analysis, fish collected from the northern and southern portions of the pond were combined into one sample (KL-F1). Because few fish were caught, tadpoles (estimated age of 6-8 weeks) were also collected for analysis of tissue. The tadpoles were composited into two discrete samples (KL-T1 and KL-T2). The tadpoles were identified as green frogs (*Rana clamitans*) with the possibility of

a few bullfrog (*Rana catesbeiana*) and a single tree frog (*Hyla versicolor*) tadpole species. Table 2 lists the biota species collected and their mass and length ranges.

Analytical Results

Following collection, biota samples were stored in ziplock bags, put on ice, and submitted to O'Brien & Gere Laboratories, Inc. for chemical analysis of PCBs (total and Aroclor-specific), percent lipid and percent moisture. Table 3 presents a summary of the analytical results. Attachment 2 presents the laboratory analytical reports, including a copy of the chain of custody for the biota samples. Water samples were analyzed for volatile organic carbons (VOCs), the results of which are not discussed herein.

As shown on Table 3, Aroclor 1016 was the only PCB congener detected in biota: 4.5 parts per million (ppm) in the fish sample and 1.48 ppm and 1.25 ppm in the two tadpole samples. These results indicate that PCBs present in the water and sediment of the pond are accumulating in primary and secondary consumers inhabiting the pond. Further, based on the observed utilization of the pond by piscivores (*i.e.*, great blue and green herons), it is likely that PCBs are accumulating in upper-trophic level receptors.

For reference, fish tissue benchmarks for PCBs were researched from the available literature and are presented in Table 3 for comparison to the site analytical results. The benchmarks indicate the concentration of PCBs in fish tissue that has resulted in observed toxic effects to receptors that forage on fish. As shown on the table, the tadpole results are relatively consistent with the benchmarks. However, the fish result is an order of magnitude higher than one of the benchmarks, indicating a potential for impacts receptors foraging on fish from the pond.

To estimate the extent that upper trophic level receptors may be impacted by the presence of PCBs in the tissue of the sampled biota of the Kessman Landfill pond would require additional evaluation. The additional evaluation could include, but may not be limited to, an assessment of the source of PCBs, assessment of the existing surface water and sediment data for chemical concentrations and spatial representation, an assessment of the frequency and utilization of the pond by piscivores, the collection of additional sediment and biota samples from the pond, and the performance of a food chain model to estimate the significance of risk to receptors foraging from the pond.



Photo 1. Looking north at Kessman Landfill pond.



Photo 2. Looking south from northern fringe of Kessman Landfill pond. Submerged vegetation observed at surface.



Photo 3. Sample processing - Golden shiner individuals.



Photo 4. Sample processing - Tadpole individuals.

Table 1
Kessman Landfill
Patterson, New York
Water Quality Recordings

	SW2	SW3	Northeast Corner	Center East Shore
Time	10:50	12:30	13:45	14:00
pH	6.7	7.0	9.2	7.8
Temperature (°C)	23.8	30.3	31.0	29.2
Dissolved Oxygen (mg/L)	1.8	2.4	5.0	5.4
Conductivity (uS/mL)	2.3	1.7	2.2	1.9
Turbidity (NTU)	135.0	130.0	300.0	50.0
Depth (inches)	4	6	8	6

Note: Parameters measured with HORIBA U-10 direct reading meter on June 30, 2005.

Table 2
Kessman Landfill
Patterson, New York
Biota Sample Composition

Location	Sample ID	Sample Composition - Common Name	Sample Composition - Scientific Name	Number of Individuals	Length Range (cm)	Total Mass (g)
North and South portions of pond	KL-F1 (fish)	Golden Shiner	<i>Notemigonus crysoleucas</i>	14	5.2 - 7.8	40
Northern portion of pond	KL-T1 (tadpole) ¹	Green Frog	<i>Rana clamitans</i>	9	4.3 - 8.1	45
Southern portion of pond	KL-T2 (tadpole) ¹	Green Frog	<i>Rana clamitans</i>	11	4.5 - 8.7	53

Notes:

¹ Bullfrog (*Rana catesbeiana*) and Tree frog (*Hyla versicolor*) tadpoles may be included in this sample.

Table 3
Kessman Landfill
Patterson, New York
Biota Sample Results

Location	Sample ID	% Lipid	% Moisture	Total PCB (ppm)	Fish Tissue Benchmark (ppm)
North and South portions of pond	KL-F1 (fish)	1.42	78.9	4.05 ¹	0.11 ²
Northern portion of pond	KL-T1 (tadpole)	0.693	86.2	1.48 ¹	1.5 ³
Southern portion of pond	KL-T2 (tadpole)	0.982	86.7	1.25 ¹	

Notes:

¹ Aroclor 1016 is detected. Aroclors 1221,1232, 1242, 1248, 1254 and 1260 are not detected.

² Newell, A.J., Johnson, and L.K. Allen. 198. *Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorous Wildlife*. Technical Report 87-3. NYSDEC

³ USEPA 1999. *Phase 2 Report - Review Copy. Further Site Characterization and Analysis. Volume 2E - Baseline Ecological Risk Assessment Hudson River PCBs Reassessment RI/FS.*



O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway

East Syracuse, NY 13057

(315) 437-6100

Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.		Lab ID:	0507005-001A
Project:	Kessman Landfill		Client Sample ID:	KL-F1 (FISH)
W Order:	0507005		Collection Date:	06/30/05 11:45 A
Matrix:	ANIMAL		Date Received:	07/01/05 12:10 P
Inst. ID:	GCPK_19A	Sample Size: 15 g	PrepDate:	07/11/05 12:00 A
ColumnID:	DB-608	%Moisture: 0.0	BatchNo:	1048/R1866
Revision:	07/19/05 2:35:19 P	TestCode: 8082S	FileID:	E:\PKJUL05\K071404.rst

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3540C)	
Aroclor 1016	4.05		0.850	0.110	mg/Kg	50	07/14/05 10:17 A
Aroclor 1221	ND		0.850	0.252	mg/Kg	50	07/14/05 10:17 A
Aroclor 1232	ND		0.850	0.0675	mg/Kg	50	07/14/05 10:17 A
Aroclor 1242	ND		0.850	0.140	mg/Kg	50	07/14/05 10:17 A
Aroclor 1248	ND		0.850	0.276	mg/Kg	50	07/14/05 10:17 A
Aroclor 1254	ND		0.850	0.0650	mg/Kg	50	07/14/05 10:17 A
Aroclor 1260	ND		0.850	0.0980	mg/Kg	50	07/14/05 10:17 A
Surr: Tetrachloro-m-xylene	69.2		44-134	0	%REC	50	07/14/05 10:17 A
Surr: Decachlorobiphenyl	15.8	S	36-141	0	%REC	50	07/14/05 10:17 A

NOTES:

Altered Aroclor 1016. Surrogate was diluted.

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



O'Brien & Gere Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.		Lab ID:	0507005-001A	
Project:	Kessman Landfill		Client Sample ID:	KL-F1 (FISH)	
W Order:	0507005		Collection Date:	06/30/05 11:45 A	
Matrix:	ANIMAL		Date Received:	07/01/05 12:10 P	
Inst. ID:	Mettler balance	Sample Size:	NA	PrepDate:	
ColumnID:		%Moisture:	78.9	BatchNo:	R1896
Revision:	07/22/05 7:42:22 A	TestCode:	PLIPIDS	FileID:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT LIPIDS				ASTM D2216			
Percent Lipids	1.42		0.200	0	wt%-dry	1	07/20/05 12:00 A

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.		Lab ID:	0507005-001A
Project:	Kessman Landfill		Client Sample ID:	KL-F1 (FISH)
W Order:	0507005		Collection Date:	06/30/05 11:45 A
Matrix:	ANIMAL		Date Received:	07/01/05 12:10 P
Inst. ID:	Mettler balance	Sample Size:	NA	PrepDate:
ColumnID:		%Moisture:		BatchNo:
Revision:	07/18/05 12:06:36 P	TestCode:	PMOIST	FileID:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT MOISTURE				ASTM D2216			
Percent Moisture	78.9		1.00	0	wt%	1	07/13/05 12:00 A

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



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5000 Brittonfield Parkway

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.		Lab ID:	0507005-002A	
Project:	Kessman Landfill		Client Sample ID:	KL-T1 (TADPOLE)	
W Order:	0507005		Collection Date:	06/30/05 11:45 A	
Matrix:	ANIMAL		Date Received:	07/01/05 12:10 P	
Inst. ID:	GCPK_19A	Sample Size:	15 g	PrepDate:	07/11/05 12:00 A
ColumnID:	DB-608	%Moisture:	0.0	BatchNo:	1048/R1866
Revision:	07/19/05 2:35:19 P	TestCode:	8082S	FileID:	E:\PKJUL05\K071406.rst

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3540C)	
Aroclor 1016	1.48		0.340	0.0438	mg/Kg	20	07/14/05 11:12 A
Aroclor 1221	ND		0.340	0.101	mg/Kg	20	07/14/05 11:12 A
Aroclor 1232	ND		0.340	0.0270	mg/Kg	20	07/14/05 11:12 A
Aroclor 1242	ND		0.340	0.0560	mg/Kg	20	07/14/05 11:12 A
Aroclor 1248	ND		0.340	0.111	mg/Kg	20	07/14/05 11:12 A
Aroclor 1254	ND		0.340	0.0260	mg/Kg	20	07/14/05 11:12 A
Aroclor 1260	ND		0.340	0.0392	mg/Kg	20	07/14/05 11:12 A
Surr: Tetrachloro-m-xylene	66.7		44-134	0	%REC	20	07/14/05 11:12 A
Surr: Decachlorobiphenyl	60.0		36-141	0	%REC	20	07/14/05 11:12 A

NOTES:

Altered Aroclor 1016. Surrogate was diluted.

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT O'Brien & Gere Engineers, Inc.

Project: Kessman Landfill

W Order: 0507005

Matrix: ANIMAL

Inst. ID: Mettler balance

ColumnID:

Revision: 07/22/05 7:42:22 A

Sample Size: NA

%Moisture: 86.2

TestCode: PLIPIDS

Lab ID: 0507005-002A

Client Sample ID: *KL-T1 (TADPOLE)*

Collection Date: 06/30/05 11:45 A

Date Received: 07/01/05 12:10 P

PrepDate:

BatchNo: R1896

FileID:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT LIPIDS				ASTM D2216			
Percent Lipids	0.693		0.200	0	wt%-dry	1	07/20/05 12:00 A

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim/Conf. column %D or RPD exceeds limit

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.	Lab ID:	0507005-002A
Project:	Kessman Landfill	Client Sample ID:	KL-T1 (TADPOLE)
W Order:	0507005	Collection Date:	06/30/05 11:45 A
Matrix:	ANIMAL	Date Received:	07/01/05 12:10 P
Inst. ID:	Mettler balance	Sample Size:	NA
ColumnID:		%Moisture:	
Revision:	07/18/05 12:06:36 P	TestCode:	PMOIST
		PrepDate:	
		BatchNo:	R1822
		FileID:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT MOISTURE				ASTM D2216			
Percent Moisture	86.2	1.00		0	wt%	1	07/13/05 12:00 A

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.	Lab ID:	0507005-003A
Project:	Kessman Landfill	Client Sample ID:	KL-T2 (TADPOLE)
W Order:	0507005	Collection Date:	06/30/05 2:00 P
Matrix:	ANIMAL	Date Received:	07/01/05 12:10 P
Inst. ID:	GCPK_19A	Sample Size:	15 g
ColumnID:	DB-608	%Moisture:	0.0
Revision:	07/19/05 2:35:19 P	TestCode:	8082S
		PrepDate:	07/11/05 12:00 A
		BatchNo:	1048/R1866
		FileID:	E:\PKJUL05\K071408.rst

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD				SW8082		(SW3540C)	
Aroclor 1016	1.25		0.170	0.0219	mg/Kg	10	07/14/05 1:18 P
Aroclor 1221	ND		0.170	0.0504	mg/Kg	10	07/14/05 1:18 P
Aroclor 1232	ND		0.170	0.0135	mg/Kg	10	07/14/05 1:18 P
Aroclor 1242	ND		0.170	0.0280	mg/Kg	10	07/14/05 1:18 P
Aroclor 1248	ND		0.170	0.0553	mg/Kg	10	07/14/05 1:18 P
Aroclor 1254	ND		0.170	0.0130	mg/Kg	10	07/14/05 1:18 P
Aroclor 1260	ND		0.170	0.0196	mg/Kg	10	07/14/05 1:18 P
Surr: Tetrachloro-m-xylene	20.0	S	44-134	0	%REC	10	07/14/05 1:18 P
Surr: Decachlorobiphenyl	10.8	S	36-141	0	%REC	10	07/14/05 1:18 P

NOTES:

Altered Aroclor 1016. Surrogate was diluted.

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

Print Date: 07/28/05 9:22:12 A

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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.	Lab ID:	0507005-003A
Project:	Kessman Landfill	Client Sample ID:	KL-T2 (TADPOLE)
W Order:	0507005	Collection Date:	06/30/05 2:00 P
Matrix:	ANIMAL	Date Received:	07/01/05 12:10 P
Inst. ID:	Mettler balance	Sample Size:	NA
ColumnID:		%Moisture:	86.7
Revision:	07/22/05 7:42:22 A	TestCode:	PLIPIDS
		PrepDate:	
		BatchNo:	R1896
		FileID:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT LIPIDS				ASTM D2216			
Percent Lipids	0.982		0.200	0	wt%-dry	1	07/20/05 12:00 A

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

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Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.		Lab ID:	0507005-003A	
Project:	Kessman Landfill		Client Sample ID:	KL-T2 (TADPOLE)	
W Order:	0507005		Collection Date:	06/30/05 2:00 P	
Matrix:	ANIMAL		Date Received:	07/01/05 12:10 P	
Inst. ID:	Mettler balance	Sample Size:	NA	PrepDate:	
ColumnID:		%Moisture:		BatchNo:	R1822
Revision:	07/18/05 12:06:36 P	TestCode:	PMOIST	FileID:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
PERCENT MOISTURE				ASTM D2216			
Percent Moisture	86.7		1.00	0	wt%	1	07/13/05 12:00 A

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

Print Date: 07/28/05 9:22:12 A

Project Supervisor: Thomas A. Alexander

**CROSS COUNTY SANITATION/KESMAN LANDFILL O&M
OPERATION, MAINTENANCE AND MONITORING**

OM&M REPORT

**ATTACHMENT D-2
BIOTA SAMPLING REPORT – September 2007**

To: File
From: Abby Morton / Steve Mooney
Re: Kessman Landfill – Biota Sampling (2007)
File: 10653/30499
Date: September 26, 2007

cc: Paul Curran – OBG (Albany)
Dharma Iyer – IEG
Ron Chiarello – OBG

Introduction

The purpose of this memorandum is to report the findings of a biota sampling event performed at the Kessman Landfill Site located on Cornwall Hill Road in the Town of Patterson, Putnam County, New York. The one-day sampling event was performed by Ron Chiarello and Abby Morton of O'Brien & Gere on August 22, 2007 at the request of the New York State Department of Environmental Conservation (NYSDEC). O'Brien & Gere performed an initial biota sampling event in June 2005. The primary objective of this second sampling event was to re-assess if concentrations of polychlorinated biphenols (PCBs) detected in surface water and sediment samples historically collected from the pond immediately adjacent to the landfill have bioaccumulated in biota inhabiting the pond. In addition to biota samples, O'Brien & Gere also collected surface water and sediment samples during this sampling event. Surface water/sediment sample locations are identified on Figure 1, which is represented by a photocopy of a Kessman Landfill site plan.

Observations and Methods

The physical habitat quality of the pond, apparently functioning as an emergent marsh wetland, was generally good. The majority of the open water area was vegetated with submerged aquatic vegetation identified as a pondweed species (*Potamogeton* sp.). The fringes of the pond were vegetated with emergent species including cattail species (*Typha* spp.), giant bur-reed (*Sparganium eurycarpum*) and common reed (*Phragmites australis*). The surface water depth range of the pond was approximately 0.5-2 feet. The recent lack of precipitation and long periods of relatively high ambient temperatures (>90° F) likely affect the current water level. Also, it is our understanding that the water level is maintained at this relatively low level by the dam under the railroad bridge to the north. Beaver dams at the bridge tend to raise the water level as much as three to four feet, but are removed periodically by the railroad company. The lack of surface water inputs (*e.g.*, recent decreased runoff and the lack of connecting tributaries) and flow makes it difficult for the pond to maintain a water depth suitable for larger species of fish. Multiple frogs were heard calling and a few species of song birds were observed during the sampling. Attachment A presents representative photographs of the pond.

Prior to the biota sampling, O'Brien & Gere collected surface water and sediment samples from the pond at existing sample locations SW2 and SW3, as well as a new location at the center of the pond which O'Brien & Gere identified as SW4 (see Figure 1). Table 1 provides a summary of the surface water and sediment samples collected and their locations. The sediment samples (SED2, SED3, and SED4) were collected at the coinciding numbered locations as the surface water samples. Each sediment sample was collected from the top six inches of substrate. Water quality measurements were also recorded from the pond using a Horiba U-10 meter. The recordings and locations are presented in Table 2.

In accordance with the applicable regulations (6NYCRR Part 175), O'Brien & Gere renewed the NYSDEC License to Collect and Possess (License #462) on August 9, 2007 for the biota sample collection. Seine nets and an electro-shocking unit were used as the primary collection methods. Three minnow traps were also placed in the pond for the sampling period. Areas where PCBs had reportedly been detected (nearest the landfill) were sampled for biota first, followed by the remainder of the pond edges and finally the center of the pond. Tadpoles and a few adult frogs were collected mostly along the pond edges, while fish were collected primarily in the central portion of the pond. Additionally, approximately six painted turtles (*Chrysemys picta*) were collected during seining attempts. The turtles were immediately returned to the pond following identification, as they were not a target species for sample collection.

Golden shiners (*Notemigonus crysoleucas*) were the only species of fish observed in the pond. This is reflective of the June 2005 sampling event, although a much larger quantity of fish was collected during the August 2007 sampling event. As shown on Table 3, 48 individuals of relatively small fish (less than 10 centimeters [cm]) were collected. The fish individuals were combined into two samples: fish greater than 7 cm long (KL-Fish1) and fish less than or equal to 7 cm long (KL-Fish2). During this sampling event, 4 adult green frogs (*Rana clamitans*) and 36 green frog tadpoles were caught. The total amphibian mass was much lower for this sampling event compared to that collected during June 2005 sampling event. Although the combined mass for the frogs and tadpoles (estimated age of 2-8 weeks) was not ideal; the amphibian sample (KL-Amph1) was submitted for analysis for comparison to results from the June 2005 data. Table 3 presents the biota sample summary.

Analytical Results

Life Science Laboratories, Inc. (Brittonfield Lab) performed chemical analysis of the biota, surface water, and sediment samples that were collected from the Kessman Landfill pond. Biota samples were analyzed for total PCBs. Additionally, the fish samples (KL-Fish1 and KL-Fish2) were analyzed for percent lipids and percent moisture. Due to the lack of mass, the amphibian sample (KL-Amph1) was not analyzed for percent lipids or percent moisture. Surface water samples were analyzed for volatile organic compounds (VOCs) while sediment samples were analyzed for total PCBs, the results of which are summarized below. Attachment B presents the laboratory analytical reports, including copies of the sample chain-of-custody.

Surface Water and Sediment

For sample SW2, the only VOC detected was acetone. For sample SW4, the only VOCs detected were chloroethane, acetone, and toluene. Sixteen VOCs were detected in SW3 including vinyl chloride, benzene, and chlorobenzene. Aroclor 1242 was the only Aroclor detected in the three sediment samples. The detected concentrations of VOCs and PCBs are presented on Table 4 for the surface water and sediment samples.

Biota

As shown on Table 5, Aroclor 1242 was the only Aroclor detected in biota: 16.6 parts per million (ppm) in the KL-Fish1, 16.2 ppm in KL-Fish2, and 0.706 ppm in the amphibian sample (KL-Amph1). For comparison, the 2005 sampling event resulted in the detection of only Aroclor 1016 in biota samples: 4.5 ppm in the single fish sample and 1.48 ppm and 1.25 ppm in the two tadpole samples.

For reference, fish tissue benchmarks for PCBs were researched from the available literature and are presented in Table 5 for comparison to the site analytical results. The benchmarks indicate the concentration of PCBs in fish tissue that has resulted in observed toxic effects to receptors that forage on fish. As shown on the table, the tadpole results are relatively consistent with the benchmarks. However, the fish results are higher than the benchmarks, indicating a potential for impacts to receptors foraging on fish from the pond.

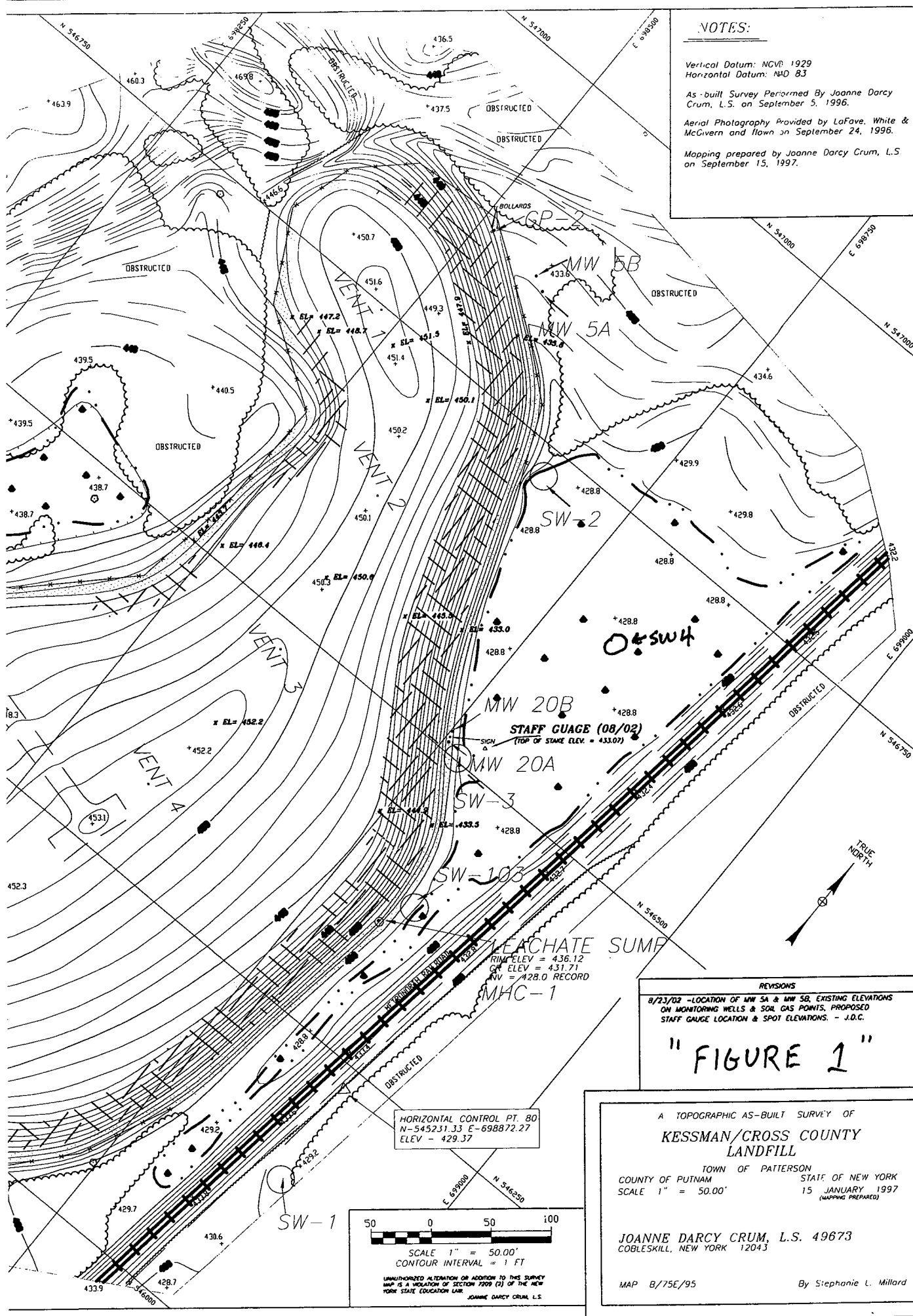
NOTES:

Vertical Datum: NGVD 1929
Horizontal Datum: NAD 83

As-built Survey Performed By Joanne Darcy Crum, L.S. on September 5, 1996.

Aerial Photography Provided by LaFave, White & McGovern and flown on September 24, 1996.

Mapping prepared by Joanne Darcy Crum, L.S. on September 15, 1997.



REVISIONS
8/23/02 - LOCATION OF MW 5A & MW 5B, EXISTING ELEVATIONS ON MONITORING WELLS & SOIL GAS POINTS, PROPOSED STAFF GAUGE LOCATION & SPOT ELEVATIONS. - J.D.C.

"FIGURE 1"

A TOPOGRAPHIC AS-BUILT SURVEY OF
KESSMAN/CROSS COUNTY LANDFILL
TOWN OF PATTERSON
COUNTY OF PUTNAM STATE OF NEW YORK
SCALE 1" = 50.00' 15 JANUARY 1997
(MAPPING PREPARED)

JOANNE DARCY CRUM, L.S. 49673
COBLESKILL, NEW YORK 12043

MAP B/75E/95 By Stephanie L. Millard

HORIZONTAL CONTROL PT. 80
N-545231.33 E-698872.27
ELEV - 429.37

SCALE 1" = 50.00'
CONTOUR INTERVAL = 1 FT

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY MAP IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. JOANNE DARCY CRUM, L.S.



Photo 1. Looking east at sampling location SW/SED-2 located at the northern end of the Kessman Landfill pond.



Photo 2. Looking southeast at the general sample location area of SW/SED-4 located in the central portion of the Kessman Landfill pond.



Photo 3. Looking north from the southern end of Kessman Landfill pond at sample location SW/SED-3.



Photo 4. Looking south from central portion of Kessman Landfill pond near the SW/SED-4 sampling location.



Photo 5. Sample processing - Golden shiner individuals.



Photo 6. Sample processing – Green frog and tadpole individuals.

Table 1
Kessman Landfill
Patterson, New York
Surface Water and Sediment Sample Summary
August 2007

Sample ID	Sample Media	Collection Depth (inches)	Location
SW2	surface water	surface	northwest corner of pond along western shoreline - existing location (see Attachment A - Photo 1)
SED2	sediment	0-6	
SW3	surface water	surface	southern end of pond - existing location (see Attachment A - Photo 3)
SED3	sediment	0-6	
SW4	surface water	surface	central portion of pond - new location (see Attachment A - Photos 2 and 4)
SED4	sediment	0-6	

Table 2
Kessman Landfill
Patterson, New York
Water Quality Recordings
August 2007

	SW2	SW3	SW4 (Center of Pond)	Northeast Corner
Time	9:00	9:45	10:35	10:55
pH	6.20	7.42	7.67	7.75
Temperature (°C)	15.8	17.5	18.3	18.6
Dissolved Oxygen (mg/L)	1.20	1.90	2.30	3.50
Conductivity (uS/mL)	1.63	1.81	1.65	1.75
Turbidity (NTU)	65	120	75	85
Depth (inches)	5	10	16	14

Note: Parameters measured with HORIBA U-10 direct reading meter on August 22, 2007.

Table 3
Kessman Landfill
Patterson, New York
Biota Sample Summary
August 2007

Sample ID	Sample Composition - Common Name	Sample Composition - Scientific Name	Number of Individuals	Total Mass (grams)
KL-Fish 1	Golden Shiner	<i>Notemigonus crysoleucas</i>	22 ¹	107
KL-Fish 2	Golden Shiner	<i>Notemigonus crysoleucas</i>	26 ²	77
KL-Amph 1	Green Frog (adults & tadpoles)	<i>Rana clamitans</i>	40	30.5

Notes:

¹ Individuals ranging from 7-10 centimeters in length.

² Individuals ranging from 2-7 centimeters in length.

Table 4
Kessman Landfill
Patterson, New York
Surface Water and Sediment Samples
Summary of Detected Constituent Concentrations
August 2007

Chemical Detections	Sample ID	SW2	SW3	SW4	SED2	SED3	SED4
PCBs¹	units						
Aroclor 1242	ppm-dry	NA	NA	NA	3.51	23.2	2.21
VOCs							
Dichlorodifluoromethane	ug/L	ND	0.42	ND	NA	NA	NA
Vinyl chloride	ug/L	ND	20.5	ND			
Chloroethane	ug/L	ND	2.26	0.26			
Acetone	ug/L	3.73	3.18	3.93			
1, 1-Dichloroethane	ug/L	ND	0.16	ND			
cis-1, 2-Dichloroethene	ug/L	ND	15.1	ND			
Cyclohexane	ug/L	ND	0.54	ND			
Benzene	ug/L	ND	4.47	ND			
Methylcyclohexane	ug/L	ND	1.09	ND			
Toluene	ug/L	ND	1.63	0.13			
Chlorobenzene	ug/L	ND	6.49	ND			
Ethylbenzene	ug/L	ND	0.11	ND			
Xylenes (total)	ug/L	ND	1.32	ND			
Isopropylbenzene	ug/L	ND	1.42	ND			
1, 2-Dichlorobenzene	ug/L	ND	0.17	ND			
1, 4-Dichlorobenzene	ug/L	ND	1.18	ND			
TOTAL VOCs	ug/L	3.73	60.04	4.32	NA	NA	NA

Notes:

¹ Aroclor 1242 is detected. Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268 are not detected.

NA = Not Applicable - not analyzed for this Sample ID

ND = Not Detected

Table 5
Kessman Landfill
Patterson, New York
Biota Sample Results
August 2007

Sample ID	% Lipid	% Moisture	Total PCB (ppm)	Fish Tissue Benchmark (ppm)
KL-Fish 1	2.16	74.9	16.6 ¹	0.11 ²
KL-Fish 2	3.54	77.2	16.2 ¹	1.5 ³
KL-Amph 1	NA	NA	0.706 ¹	

Notes:

¹ Aroclor 1242 is detected. Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268 are not detected.

² Newell, A.J., Johnson, and L.K. Allen. 198. *Niagara River Biota Contamination Project: Fish Flesh Criteria for Piscivorous Wildlife*. Technical Report 87-3. NYSDEC

³ USEPA 1999. *Phase 2 Report - Review Copy. Further Site Characterization and Analysis. Volume 2E - Baseline Ecological Risk Assessment Hudson River PCBs Reassessment RI/FS.*

NA = Not Applicable - not enough mass was collected for analysis of these parameters.



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman Landfill

W Order: 0708142

Matrix: SURFACE WATER

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 08/30/07 9:16

Col Type:

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0708142-001A

Client Sample ID: SW2

Collection Date: 08/22/07 9:15

Date Received: 08/23/07 12:20

PrepDate:

BatchNo: R10911

FileID: 1-SAMP-M2104.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	08/29/07 18:31
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 18:31
Vinyl chloride	ND		1.00	0.04	µg/L	1	08/29/07 18:31
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 18:31
Chloroethane	ND		1.00	0.12	µg/L	1	08/29/07 18:31
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 18:31
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 18:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
Acetone	3.73 J		10.0	0.82	µg/L	1	08/29/07 18:31
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 18:31
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 18:31
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 18:31
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Cyclohexane	ND		0.50	0.06	µg/L	1	08/29/07 18:31
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Benzene	ND		0.50	0.01	µg/L	1	08/29/07 18:31
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Methylcyclohexane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 18:31
Toluene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31

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

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-001A
Project: Kessman Landfill	Client Sample ID: SW2
W Order: 0708142	Collection Date: 08/22/07 9:15
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2104.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 18:31
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
Chlorobenzene	ND		0.50	0.01	µg/L	1	08/29/07 18:31
Ethylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Xylenes (total)	ND		1.00	0.04	µg/L	1	08/29/07 18:31
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Bromoform	ND		0.50	0.05	µg/L	1	08/29/07 18:31
Isopropylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 18:31
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 18:31
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 18:31
Surr: Dibromofluoromethane	97.9		75-127	0.03	%REC	1	08/29/07 18:31
Surr: 1,2-Dichloroethane-d4	110		75-134	0.04	%REC	1	08/29/07 18:31
Surr: Toluene-d8	105		75-125	0.01	%REC	1	08/29/07 18:31
Surr: 4-Bromofluorobenzene	93.5		75-125	0.04	%REC	1	08/29/07 18:31

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-002A
Project: Kessman Landfill	Client Sample ID: SW3
W Order: 0708142	Collection Date: 08/22/07 9:40
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2105.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	0.42	J	1.00	0.07	µg/L	1	08/29/07 19:09
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 19:09
Vinyl chloride	20.5		1.00	0.04	µg/L	1	08/29/07 19:09
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 19:09
Chloroethane	2.26		1.00	0.12	µg/L	1	08/29/07 19:09
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 19:09
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 19:09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
Acetone	3.18	J	10.0	0.82	µg/L	1	08/29/07 19:09
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 19:09
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 19:09
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 19:09
1,1-Dichloroethane	0.16	J	0.50	0.03	µg/L	1	08/29/07 19:09
cis-1,2-Dichloroethene	15.1		0.50	0.03	µg/L	1	08/29/07 19:09
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 19:09
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 19:09
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Cyclohexane	0.54		0.50	0.06	µg/L	1	08/29/07 19:09
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Benzene	4.47		0.50	0.01	µg/L	1	08/29/07 19:09
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Methylcyclohexane	1.09		0.50	0.03	µg/L	1	08/29/07 19:09
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 19:09
Toluene	1.63		0.50	0.02	µg/L	1	08/29/07 19:09
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-002A
Project: Kessman Landfill	Client Sample ID: SW3
W Order: 0708142	Collection Date: 08/22/07 9:40
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2105.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 19:09
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
Chlorobenzene	6.49		0.50	0.01	µg/L	1	08/29/07 19:09
Ethylbenzene	0.11	J	0.50	0.02	µg/L	1	08/29/07 19:09
Xylenes (total)	1.32		1.00	0.04	µg/L	1	08/29/07 19:09
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Bromofom	ND		0.50	0.05	µg/L	1	08/29/07 19:09
Isopropylbenzene	1.42		0.50	0.02	µg/L	1	08/29/07 19:09
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 19:09
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
1,4-Dichlorobenzene	1.18		0.50	0.02	µg/L	1	08/29/07 19:09
1,2-Dichlorobenzene	0.17	J	0.50	0.02	µg/L	1	08/29/07 19:09
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 19:09
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 19:09
Surr: Dibromofluoromethane	98.3		75-127	0.03	%REC	1	08/29/07 19:09
Surr: 1,2-Dichloroethane-d4	110		75-134	0.04	%REC	1	08/29/07 19:09
Surr: Toluene-d8	108		75-125	0.01	%REC	1	08/29/07 19:09
Surr: 4-Bromofluorobenzene	98.6		75-125	0.04	%REC	1	08/29/07 19:09

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



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-003A
Project: Kessman Landfill	Client Sample ID: SW4
W Order: 0708142	Collection Date: 08/22/07 10:30
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2106.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	08/29/07 19:48
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 19:48
Vinyl chloride	ND		1.00	0.04	µg/L	1	08/29/07 19:48
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 19:48
Chloroethane	0.26	J	1.00	0.12	µg/L	1	08/29/07 19:48
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 19:48
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 19:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
Acetone	3.93	J	10.0	0.82	µg/L	1	08/29/07 19:48
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 19:48
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 19:48
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 19:48
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Cyclohexane	ND		0.50	0.06	µg/L	1	08/29/07 19:48
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Benzene	ND		0.50	0.01	µg/L	1	08/29/07 19:48
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Methylcyclohexane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 19:48
Toluene	0.13	J	0.50	0.02	µg/L	1	08/29/07 19:48
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-003A
Project: Kessman Landfill	Client Sample ID: SW4
W Order: 0708142	Collection Date: 08/22/07 10:30
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	BatchNo: R10911
	FileID: 1-SAMP-M2106.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 19:48
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
Chlorobenzene	ND		0.50	0.01	µg/L	1	08/29/07 19:48
Ethylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Xylenes (total)	ND		1.00	0.04	µg/L	1	08/29/07 19:48
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Bromofom	ND		0.50	0.05	µg/L	1	08/29/07 19:48
Isopropylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 19:48
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 19:48
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 19:48
Surr: Dibromofluoromethane	97.4		75-127	0.03	%REC	1	08/29/07 19:48
Surr: 1,2-Dichloroethane-d4	108		75-134	0.04	%REC	1	08/29/07 19:48
Surr: Toluene-d8	104		75-125	0.01	%REC	1	08/29/07 19:48
Surr: 4-Bromofluorobenzene	95.0		75-125	0.04	%REC	1	08/29/07 19:48

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-004A
Project: Kessman Landfill	Client Sample ID: SED2
W Order: 0708142	Collection Date: 08/22/07 9:30
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C Sample Size: 30 g	PrepDate: 08/27/07 15:54
ColumnID: DB-608 %Moisture: 38.3	BatchNo: 6087/R10921
Revision: 08/30/07 11:01 TestCode: 8082S	FileID: I-SAMP-F:\90aug07\C082907.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.551	0.0710	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1221	ND	0.551	0.0720	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1232	ND	0.551	0.0438	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1242	3.51	0.551	0.0593	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1248	ND	0.551	0.116	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1254	ND	0.551	0.154	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1260	ND	0.551	0.0648	mg/Kg-dry	20	08/29/07 13:03	
Surr: Tetrachloro-m-xylene	117	44-134	0	%REC	20	08/29/07 13:03	
Surr: Decachlorobiphenyl	93.3	36-141	0	%REC	20	08/29/07 13:03	

NOTES:
Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-004A
Project: Kessman Landfill	Client Sample ID: SED2
W Order: 0708142	Collection Date: 08/22/07 9:30
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 08/27/07 15:54
ColumnID: DB-1701	BatchNo: 6087/R10922
Revision: 08/30/07 11:04	FileID: 1-SAMP-F:\90aug07\D082906.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.551	0.0710	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1221	ND	0.551	0.0720	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1232	ND	0.551	0.0438	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1242	3.28	0.551	0.0593	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1248	ND	0.551	0.116	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1254	ND	0.551	0.154	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1260	ND	0.551	0.0648	mg/Kg-dry	20	08/29/07 12:32	
Surr: Tetrachloro-m-xylene	117	44-134	0	%REC	20	08/29/07 12:32	
Surr: Decachlorobiphenyl	110	36-141	0	%REC	20	08/29/07 12:32	

NOTES:
Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-005A
Project: Kessman Landfill	Client Sample ID: SED3
W Order: 0708142	Collection Date: 08/22/07 10:00
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 08/27/07 15:54
ColumnID: DB-608	BatchNo: 6087/R10921
Revision: 08/30/07 11:01	FileID: 1-SAMP-F:\90aug07\C082908.r
Col Type: Primary	
Sample Size: 30 g	
%Moisture: 50.8	
TestCode: 8082S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		3.46	0.445	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1221	ND		3.46	0.451	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1232	ND		3.46	0.274	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1242	23.2		3.46	0.372	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1248	ND		3.46	0.726	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1254	ND		3.46	0.963	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1260	ND		3.46	0.407	mg/Kg-dry	100	08/29/07 13:34
Surr: Tetrachloro-m-xylene	0	S	44-134	0	%REC	100	08/29/07 13:34
Surr: Decachlorobiphenyl	0	S	36-141	0	%REC	100	08/29/07 13:34

NOTES:

S - Surrogates diluted out.

Altered Aroclor 1242.

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-005A
Project: Kessman Landfill	Client Sample ID: SED3
W Order: 0708142	Collection Date: 08/22/07 10:00
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 08/27/07 15:54
ColumnID: DB-1701	BatchNo: 6087/R10922
Revision: 08/30/07 11:04	FileID: 1-SAMP-F:\90aug07\D082907.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		3.46	0.445	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1221	ND		3.46	0.451	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1232	ND		3.46	0.274	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1242	23.4		3.46	0.372	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1248	ND		3.46	0.726	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1254	ND		3.46	0.963	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1260	ND		3.46	0.407	mg/Kg-dry	100	08/29/07 13:03
Surr: Tetrachloro-m-xylene	0	S	44-134	0	%REC	100	08/29/07 13:03
Surr: Decachlorobiphenyl	0	S	36-141	0	%REC	100	08/29/07 13:03

NOTES:

Altered Aroclor 1242.
S - Surrogates diluted out.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-006A
Project: Kessman Landfill	Client Sample ID: SED4
W Order: 0708142	Collection Date: 08/22/07 10:45
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 08/27/07 15:54
ColumnID: DB-608	BatchNo: 6087/R10921
Revision: 08/30/07 11:01	FileID: 1-SAMP-F:\90aug07\C082909.r
Col Type: Primary	
Sample Size: 30 g	
%Moisture: 44.1	
TestCode: 8082S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.304	0.0392	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1221	ND		0.304	0.0397	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1232	ND		0.304	0.0242	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1242	2.21		0.304	0.0327	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1248	ND		0.304	0.0639	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1254	ND		0.304	0.0848	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1260	ND		0.304	0.0358	mg/Kg-dry	10	08/29/07 14:05
Surr: Tetrachloro-m-xylene	105		44-134	0	%REC	10	08/29/07 14:05
Surr: Decachlorobiphenyl	118		36-141	0	%REC	10	08/29/07 14:05

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-006A
Project: Kessman Landfill	Client Sample ID: SED4
W Order: 0708142	Collection Date: 08/22/07 10:45
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D Sample Size: 30 g	PrepDate: 08/27/07 15:54
ColumnID: DB-1701 %Moisture: 44.1	BatchNo: 6087/R10922
Revision: 08/30/07 11:04 TestCode: 8082S	FileID: 1-SAMP-F:\90aug07\D082908.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.304	0.0392	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1221	ND		0.304	0.0397	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1232	ND		0.304	0.0242	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1242	2.53		0.304	0.0327	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1248	ND		0.304	0.0639	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1254	ND		0.304	0.0848	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1260	ND		0.304	0.0358	mg/Kg-dry	10	08/29/07 13:34
Surr: Tetrachloro-m-xylene	107		44-134	0	%REC	10	08/29/07 13:34
Surr: Decachlorobiphenyl	127		36-141	0	%REC	10	08/29/07 13:34

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-007A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11011
Revision: 09/11/07 8:26	FileID: 1-SAMP-E:\90sept07\C091004.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 14:07
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 14:07
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 14:07
Aroclor 1242	16.6		3.40	1.21	mg/Kg	200	09/10/07 14:07
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 14:07
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 14:07
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 14:07
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 14:07
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 14:07
Surr: Tetrachloro-m-xylene	0 S		40-140	0	%REC	200	09/10/07 14:07
Surr: Decachlorobiphenyl	0 S		40-140	0	%REC	200	09/10/07 14:07

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-007A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11012
Revision: 09/11/07 8:27	FileID: 1-SAMP-E:\90sept07\D091003.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 13:36
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 13:36
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 13:36
Aroclor 1242	17.1		3.40	1.21	mg/Kg	200	09/10/07 13:36
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 13:36
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 13:36
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 13:36
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 13:36
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 13:36
Surr: Tetrachloro-m-xylene	0	S	40-140	0	%REC	200	09/10/07 13:36
Surr: Decachlorobiphenyl	0	S	40-140	0	%REC	200	09/10/07 13:36

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-008A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 2</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11011
Revision: 09/11/07 8:26	FileID: 1-SAMP-E:\90sept07\C091005.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 14:38
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 14:38
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 14:38
Aroclor 1242	16.1		3.40	1.21	mg/Kg	200	09/10/07 14:38
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 14:38
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 14:38
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 14:38
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 14:38
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 14:38
Surr: Tetrachloro-m-xylene	0	S	40-140	0	%REC	200	09/10/07 14:38
Surr: Decachlorobiphenyl	0	S	40-140	0	%REC	200	09/10/07 14:38

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

Qualifiers:

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-008A
Project: Kessman Landfill	Client Sample ID: KL-Fish 2
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11012
Revision: 09/11/07 8:27	FileID: 1-SAMP-E:\90sept07\D091004.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 14:07
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 14:07
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 14:07
Aroclor 1242	16.4		3.40	1.21	mg/Kg	200	09/10/07 14:07
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 14:07
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 14:07
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 14:07
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 14:07
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 14:07
Surr: Tetrachloro-m-xylene	0 S		40-140	0	%REC	200	09/10/07 14:07
Surr: Decachlorobiphenyl	0 S		40-140	0	%REC	200	09/10/07 14:07

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

Qualifiers:

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

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-009A
Project: Kessman Landfill	Client Sample ID: <i>KL-Amph1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11004
Revision: 09/10/07 12:45	FileID: 1-SAMP-E:\90sept07\C090709.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND	0.200	0.0338	mg/Kg	10	09/07/07 19:33	
Aroclor 1221	ND	0.200	0.0738	mg/Kg	10	09/07/07 19:33	
Aroclor 1232	ND	0.200	0.0748	mg/Kg	10	09/07/07 19:33	
Aroclor 1242	0.706	0.200	0.0712	mg/Kg	10	09/07/07 19:33	
Aroclor 1248	ND	0.200	0.0609	mg/Kg	10	09/07/07 19:33	
Aroclor 1254	ND	0.200	0.0744	mg/Kg	10	09/07/07 19:33	
Aroclor 1260	ND	0.200	0.0364	mg/Kg	10	09/07/07 19:33	
Aroclor 1262	ND	0.200	0.0686	mg/Kg	10	09/07/07 19:33	
Aroclor 1268	ND	0.200	0.0442	mg/Kg	10	09/07/07 19:33	
Surr: Tetrachloro-m-xylene	120	40-140	0	%REC	10	09/07/07 19:33	
Surr: Decachlorobiphenyl	105	40-140	0	%REC	10	09/07/07 19:33	

NOTES:

Altered Aroclor 1242.

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



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-009A
Project: Kessman Landfill	Client Sample ID: <i>KL-Amph1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11005
Revision: 09/10/07 12:46	FileID: 1-SAMP-E:\90sept07\D090708.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		0.200	0.0338	mg/Kg	10	09/07/07 19:02
Aroclor 1221	ND		0.200	0.0738	mg/Kg	10	09/07/07 19:02
Aroclor 1232	ND		0.200	0.0748	mg/Kg	10	09/07/07 19:02
Aroclor 1242	0.706		0.200	0.0712	mg/Kg	10	09/07/07 19:02
Aroclor 1248	ND		0.200	0.0609	mg/Kg	10	09/07/07 19:02
Aroclor 1254	ND		0.200	0.0744	mg/Kg	10	09/07/07 19:02
Aroclor 1260	ND		0.200	0.0364	mg/Kg	10	09/07/07 19:02
Aroclor 1262	ND		0.200	0.0686	mg/Kg	10	09/07/07 19:02
Aroclor 1268	ND		0.200	0.0442	mg/Kg	10	09/07/07 19:02
Surr: Tetrachloro-m-xylene	137		40-140	0	%REC	10	09/07/07 19:02
Surr: Decachlorobiphenyl	108		40-140	0	%REC	10	09/07/07 19:02

NOTES:

Altered Aroclor 1242.

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman Landfill

W Order: 0708142

Matrix: BIOTA

Inst. ID: DENVER APX-200 Sample Size: NA

ColumnID: %Moisture: 74.9

Revision: 09/13/07 8:56 TestCode PLIPIDS

Col Type:

Lab ID: 0708142-010A

Client Sample ID: KL-Fish 1

Collection Date: 08/22/07 14:10

Date Received: 08/23/07 12:20

PrepDate: 09/10/07 0:00

BatchNo: R11039

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT LIPIDS				SOP 100-58		
Percent Lipids	2.16	0.100		wt%	1	09/10/07

Qualifiers:

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

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-011A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 2</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture: 77.2
Revision: 09/13/07 8:56	TestCode: PLIPIDS
Col Type:	PrepDate: 09/10/07 0:00
	BatchNo: R11039
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT LIPIDS				SOP 100-58		
Percent Lipids	3.54		0.100	wt%	1	09/10/07

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

END OF REPORT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND							
ANALYTICAL SUMMARY							
Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		VOA GC/MS Method#	BNA GC/MS Method#	VOA GC Method#	PEST PCBs Method#	METALS	OTHER
SW-1-11-05	0512009-001A	8260B					
SW-2-11-05	0512009-002A	8260B					
SW-3-11-05	0512009-003A	8260B					
MW-20A-11-05	0512009-004A	8260B					
MW-20B-11-05	0512009-005A	8260B					

NOV 29, 2005 02:37P LSL, O'BRIEN & G

315 437 0377



Life Science Laboratories, Inc.
Brittonfield Lab

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

Chain of Custody

008/009

Client: NEWYORK STATE D.E.C.						Analysis/Method					
Project: FICA / KESSMAN						<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 5px;">METALS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 5px;">VOC</div> </div>					
Sampled by: JENNIFER CARTER DAN TAGLIANTO											
Client Contact: Dharma Iyer Phone # (315) 662-4157											
Sample Description											
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Comments					
FICA DGC -9-11-05	11/30/05	11:45	H2O	G	1	HNO3					
DGC -9-11-05		11:45			3	HCL					
DGC -10-11-05		12:30			1	HNO3					
DGC -10-11-05		12:30			3	HCL					
KESSMAN SW-1-11-05		15:10			3						
SW-2-11-05		15:00			3						
SW-3-11-05		15:20			3						
MW-20A-11-05		15:35			3						
MW-20B-11-05		15:30			3						
Relinquished by: <i>Dan Taglianto</i> Date: 11/30/05 Time: 5:00						Received by: _____ Date: _____ Time: _____					
Relinquished by: _____ Date: _____ Time: _____						Received by: _____ Date: _____ Time: _____					
Relinquished by: _____ Date: _____ Time: _____						Received by Lab: <i>D. Maw</i> Date: 12/1/05 Time: 9:00					
Shipment Method						Airbill Number: _____					

Turnaround Time Required:

Routine _____
 Rush (Specify) _____

Comments

Cooler Temperature:

4°C

Original - Laboratory
 Copy - Client



Life Science Laboratories, Inc.

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East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: KESSMAN

W Order: 0512009

Matrix: WATER

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 12/07/05

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0512009-001A

Client Sample ID: SW-1-11-05

Collection Date: 11/30/05 15:10

Date Received: 12/01/05 9:00

PrepDate:

BatchNo: R3652

FileID: 1-SAMP-M8427.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.03	µg/L	1	12/05/05 13:36
Chloromethane	ND		1.00	0.03	µg/L	1	12/05/05 13:36
Vinyl chloride	ND		1.00	0.03	µg/L	1	12/05/05 13:36
Bromomethane	ND		1.00	0.10	µg/L	1	12/05/05 13:36
Chloroethane	ND		1.00	0.08	µg/L	1	12/05/05 13:36
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	12/05/05 13:36
1,1-Dichloroethene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.05	µg/L	1	12/05/05 13:36
Acetone	ND		10.0	0.23	µg/L	1	12/05/05 13:36
Carbon disulfide	ND		0.50	0.03	µg/L	1	12/05/05 13:36
Methyl acetate	ND		0.50	0.05	µg/L	1	12/05/05 13:36
Methylene chloride	ND		2.00	0.09	µg/L	1	12/05/05 13:36
trans-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 13:36
Methyl tert-butyl ether	ND		0.50	0.03	µg/L	1	12/05/05 13:36
1,1-Dichloroethane	0.24	J	0.50	0.02	µg/L	1	12/05/05 13:36
cis-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 13:36
2-Butanone	ND		10.0	0.68	µg/L	1	12/05/05 13:36
Chloroform	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,1,1-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 13:36
Cyclohexane	ND		0.50	0.02	µg/L	1	12/05/05 13:36
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	12/05/05 13:36
Benzene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	12/05/05 13:36
Trichloroethene	ND		0.50	0.03	µg/L	1	12/05/05 13:36
Methylcyclohexane	ND		0.50	0.03	µg/L	1	12/05/05 13:36
1,2-Dichloropropane	ND		0.50	0.05	µg/L	1	12/05/05 13:36
Bromodichloromethane	ND		0.50	0.02	µg/L	1	12/05/05 13:36
cis-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 13:36
4-Methyl-2-pentanone	ND		5.00	1.20	µg/L	1	12/05/05 13:36
Toluene	0.60		0.50	0.02	µg/L	1	12/05/05 13:36
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 13:36
1,1,2-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 13:36
Tetrachloroethene	ND		0.50	0.05	µg/L	1	12/05/05 13:36
2-Hexanone	ND		5.00	0.36	µg/L	1	12/05/05 13:36

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

Print Date: 12/07/05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: KESSMAN

W Order: 0512009

Matrix: WATER

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 12/07/05

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0512009-001A

Client Sample ID: SW-1-11-05

Collection Date: 11/30/05 15:10

Date Received: 12/01/05 9:00

PrepDate:

BatchNo: R3652

FileID: 1-SAMP-M8427.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dibromochloromethane	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,2-Dibromoethane	ND		0.50	0.03	µg/L	1	12/05/05 13:36
Chlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/05/05 13:36
Styrene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
Bromoform	ND		0.50	0.13	µg/L	1	12/05/05 13:36
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,1,2,2-Tetrachloroethane	ND		0.50	0.05	µg/L	1	12/05/05 13:36
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 13:36
1,4-Dichlorobenzene	ND		0.50	0.04	µg/L	1	12/05/05 13:36
1,2-Dichlorobenzene	ND		0.50	0.07	µg/L	1	12/05/05 13:36
1,2-Dibromo-3-chloropropane	ND		1.00	0.22	µg/L	1	12/05/05 13:36
1,2,4-Trichlorobenzene	ND		1.00	0.13	µg/L	1	12/05/05 13:36
Sum: Dibromofluoromethane	109		75-127	0.05	%REC	1	12/05/05 13:36
Sum: 1,2-Dichloroethane-d4	91.5		75-134	0.04	%REC	1	12/05/05 13:36
Sum: Toluene-d8	92.5		75-125	0.02	%REC	1	12/05/05 13:36
Sum: 4-Bromofluorobenzene	107		75-125	0.07	%REC	1	12/05/05 13:36

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: KESSMAN
W Order: 0512009
Matrix: WATER
Inst. ID: MS02 12
ColumnID: Rtx-502.2
Revision: 12/07/05

Sample Size: 25 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0512009-002A
Client Sample ID: SJW-2-11-05
Collection Date: 11/30/05 15:00
Date Received: 12/01/05 9:00
PrepDate:
BatchNo: R3652
FileID: 1-SAMP-M8428.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.03	µg/L	1	12/05/05 14:18
Chloromethane	ND		1.00	0.03	µg/L	1	12/05/05 14:18
Vinyl chloride	3.25		1.00	0.03	µg/L	1	12/05/05 14:18
Bromomethane	ND		1.00	0.10	µg/L	1	12/05/05 14:18
Chloroethane	ND		1.00	0.08	µg/L	1	12/05/05 14:18
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	12/05/05 14:18
1,1-Dichloroethene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.05	µg/L	1	12/05/05 14:18
Acetone	ND		10.0	0.23	µg/L	1	12/05/05 14:18
Carbon disulfide	ND		0.50	0.03	µg/L	1	12/05/05 14:18
Methyl acetate	ND		0.50	0.05	µg/L	1	12/05/05 14:18
Methylene chloride	ND		2.00	0.09	µg/L	1	12/05/05 14:18
trans-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 14:18
Methyl tert-butyl ether	ND		0.50	0.03	µg/L	1	12/05/05 14:18
1,1-Dichloroethane	ND		0.50	0.02	µg/L	1	12/05/05 14:18
cis-1,2-Dichloroethene	15.0		0.50	0.04	µg/L	1	12/05/05 14:18
2-Butanone	ND		10.0	0.68	µg/L	1	12/05/05 14:18
Chloroform	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,1,1-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 14:18
Cyclohexane	ND		0.50	0.02	µg/L	1	12/05/05 14:18
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	12/05/05 14:18
Benzene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	12/05/05 14:18
Trichloroethene	ND		0.50	0.03	µg/L	1	12/05/05 14:18
Methylcyclohexane	ND		0.50	0.03	µg/L	1	12/05/05 14:18
1,2-Dichloropropane	ND		0.50	0.05	µg/L	1	12/05/05 14:18
Bromodichloromethane	ND		0.50	0.02	µg/L	1	12/05/05 14:18
cis-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 14:18
4-Methyl-2-pentanone	ND		5.00	1.20	µg/L	1	12/05/05 14:18
Toluene	0.12	J	0.50	0.02	µg/L	1	12/05/05 14:18
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 14:18
1,1,2-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 14:18
Tetrachloroethene	ND		0.50	0.05	µg/L	1	12/05/05 14:18
2-Hexanone	ND		5.00	0.36	µg/L	1	12/05/05 14:18

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

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

Print Date: 12/07/05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: KESSMAN

W Order: 0512009

Matrix: WATER

Inst. ID: MS02 12

ColumnID: Rx-502.2

Revision: 12/07/05

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0512009-002A

Client Sample ID: SW-2-11-05

Collection Date: 11/30/05 15:00

Date Received: 12/01/05 9:00

PrepDate:

BatchNo: R3652

FileID: 1-SAMP-M8428.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dibromochloromethane	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,2-Dibromoethane	ND		0.50	0.03	µg/L	1	12/05/05 14:18
Chlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/05/05 14:18
Styrene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
Bromoforn	ND		0.50	0.13	µg/L	1	12/05/05 14:18
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,1,2,2-Tetrachloroethane	ND		0.50	0.05	µg/L	1	12/05/05 14:18
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 14:18
1,4-Dichlorobenzene	ND		0.50	0.04	µg/L	1	12/05/05 14:18
1,2-Dichlorobenzene	ND		0.50	0.07	µg/L	1	12/05/05 14:18
1,2-Dibromo-3-chloropropane	ND		1.00	0.22	µg/L	1	12/05/05 14:18
1,2,4-Trichlorobenzene	ND		1.00	0.13	µg/L	1	12/05/05 14:18
Surr: Dibromofluoromethane	99.0		75-127	0.05	%REC	1	12/05/05 14:18
Surr: 1,2-Dichloroethane-d4	90.2		75-134	0.04	%REC	1	12/05/05 14:18
Surr: Toluene-d8	98.1		75-125	0.02	%REC	1	12/05/05 14:18
Surr: 4-Bromofluorobenzene	99.4		75-125	0.07	%REC	1	12/05/05 14:18

Qualifiers:

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200
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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: KESSMAN

W Order: 0512009

Matrix: WATER

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 12/07/05

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0512009-003A

Client Sample ID: SW-3-11-05

Collection Date: 11/30/05 15:20

Date Received: 12/01/05 9:00

PrepDate:

BatchNo: R3652

FileID: I-SAMP-M8429.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.03	µg/L	1	12/05/05 15:01
Chloromethane	ND		1.00	0.03	µg/L	1	12/05/05 15:01
Vinyl chloride	ND		1.00	0.03	µg/L	1	12/05/05 15:01
Bromomethane	ND		1.00	0.10	µg/L	1	12/05/05 15:01
Chloroethane	ND		1.00	0.08	µg/L	1	12/05/05 15:01
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	12/05/05 15:01
1,1-Dichloroethene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.05	µg/L	1	12/05/05 15:01
Acetone	ND		10.0	0.23	µg/L	1	12/05/05 15:01
Carbon disulfide	ND		0.50	0.03	µg/L	1	12/05/05 15:01
Methyl acetate	ND		0.50	0.05	µg/L	1	12/05/05 15:01
Methylene chloride	ND		2.00	0.09	µg/L	1	12/05/05 15:01
trans-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 15:01
Methyl tert-butyl ether	ND		0.50	0.03	µg/L	1	12/05/05 15:01
1,1-Dichloroethane	ND		0.50	0.02	µg/L	1	12/05/05 15:01
cis-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 15:01
2-Butanone	ND		10.0	0.68	µg/L	1	12/05/05 15:01
Chloroform	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,1,1-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 15:01
Cyclohexane	ND		0.50	0.02	µg/L	1	12/05/05 15:01
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	12/05/05 15:01
Benzene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	12/05/05 15:01
Trichloroethene	ND		0.50	0.03	µg/L	1	12/05/05 15:01
Methylcyclohexane	ND		0.50	0.03	µg/L	1	12/05/05 15:01
1,2-Dichloropropane	ND		0.50	0.05	µg/L	1	12/05/05 15:01
Bromodichloromethane	ND		0.50	0.02	µg/L	1	12/05/05 15:01
cis-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 15:01
4-Methyl-2-pentanone	ND		5.00	1.20	µg/L	1	12/05/05 15:01
Toluene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 15:01
1,1,2-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 15:01
Tetrachloroethene	ND		0.50	0.05	µg/L	1	12/05/05 15:01
2-Hexanone	ND		5.00	0.36	µg/L	1	12/05/05 15:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

F Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim / Conf column %D or RPD exceeds limit

Print Date: 12/07/05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: KESSMAN
W Order: 0512009
Matrix: WATER
Inst. ID: MS02 12
ColumnID: Rtx-502.2
Revision: 12/07/05

Sample Size: 25 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0512009-003A
Client Sample ID: SW-3-11-05
Collection Date: 11/30/05 15:20
Date Received: 12/01/05 9:00
PrepDate:
BatchNo: R3652
FileID: 1-SAMP-M8429.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dibromochloromethane	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,2-Dibromoethane	ND		0.50	0.03	µg/L	1	12/05/05 15:01
Chlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/05/05 15:01
Styrene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
Bromofom	ND		0.50	0.13	µg/L	1	12/05/05 15:01
Isopropylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,1,2,2-Tetrachloroethane	ND		0.50	0.05	µg/L	1	12/05/05 15:01
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:01
1,4-Dichlorobenzene	ND		0.50	0.04	µg/L	1	12/05/05 15:01
1,2-Dichlorobenzene	ND		0.50	0.07	µg/L	1	12/05/05 15:01
1,2-Dibromo-3-chloropropane	ND		1.00	0.22	µg/L	1	12/05/05 15:01
1,2,4-Trichlorobenzene	ND		1.00	0.13	µg/L	1	12/05/05 15:01
Surr: Dibromofluoromethane	101		75-127	0.05	%REC	1	12/05/05 15:01
Surr: 1,2-Dichloroethane-d4	91.3		75-134	0.04	%REC	1	12/05/05 15:01
Surr: Toluene-d8	95.7		75-125	0.02	%REC	1	12/05/05 15:01
Surr: 4-Bromofluorobenzene	108		75-125	0.07	%REC	1	12/05/05 15:01

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

Print Date: 12/07/05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: KESSMAN
W Order: 0512009
Matrix: WATER
Inst. ID: MS02 12
ColumnID: Rtx-502.2
Revision: 12/07/05

Sample Size: 25 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0512009-004A
Client Sample ID: MW-20A-11-05
Collection Date: 11/30/05 15:35
Date Received: 12/01/05 9:00
PrepDate:
BatchNo: R3652
FileID: I-SAMP-M8430.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.03	µg/L	1	12/05/05 15:44
Chloromethane	ND		1.00	0.03	µg/L	1	12/05/05 15:44
Vinyl chloride	ND		1.00	0.03	µg/L	1	12/05/05 15:44
Bromomethane	ND		1.00	0.10	µg/L	1	12/05/05 15:44
Chloroethane	ND		1.00	0.08	µg/L	1	12/05/05 15:44
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	12/05/05 15:44
1,1-Dichloroethene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.05	µg/L	1	12/05/05 15:44
Acetone	ND		10.0	0.23	µg/L	1	12/05/05 15:44
Carbon disulfide	ND		0.50	0.03	µg/L	1	12/05/05 15:44
Methyl acetate	ND		0.50	0.05	µg/L	1	12/05/05 15:44
Methylene chloride	ND		2.00	0.09	µg/L	1	12/05/05 15:44
trans-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 15:44
Methyl tert-butyl ether	ND		0.50	0.03	µg/L	1	12/05/05 15:44
1,1-Dichloroethane	1.55		0.50	0.02	µg/L	1	12/05/05 15:44
cis-1,2-Dichloroethene	0.23	J	0.50	0.04	µg/L	1	12/05/05 15:44
2-Butanone	ND		10.0	0.68	µg/L	1	12/05/05 15:44
Chloroform	ND		0.50	0.02	µg/L	1	12/05/05 15:44
1,1,1-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 15:44
Cyclohexane	ND		0.50	0.02	µg/L	1	12/05/05 15:44
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	12/05/05 15:44
Benzene	0.40	J	0.50	0.02	µg/L	1	12/05/05 15:44
1,2-Dichloroethane	1.18		0.50	0.02	µg/L	1	12/05/05 15:44
Trichloroethene	ND		0.50	0.03	µg/L	1	12/05/05 15:44
Methylcyclohexane	ND		0.50	0.03	µg/L	1	12/05/05 15:44
1,2-Dichloropropane	ND		0.50	0.05	µg/L	1	12/05/05 15:44
Bromodichloromethane	ND		0.50	0.02	µg/L	1	12/05/05 15:44
cis-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 15:44
4-Methyl-2-pentanone	ND		5.00	1.20	µg/L	1	12/05/05 15:44
Toluene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 15:44
1,1,2-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 15:44
Tetrachloroethene	ND		0.50	0.05	µg/L	1	12/05/05 15:44
2-Hexanone	ND		5.00	0.36	µg/L	1	12/05/05 15:44

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

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

Print Date: 12/07/05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: KESSMAN
W Order: 0512009
Matrix: WATER

Lab ID: 0512009-004A
Client Sample ID: MW-20A-11-05
Collection Date: 11/30/05 15:35
Date Received: 12/01/05 9:00

Inst. ID: MS02 12
ColumnID: Rtx-502.2
Revision: 12/07/05

Sample Size: 25 mL
%Moisture:
TestCode: 8260W OLM42

PrepDate:
BatchNo: R3652
FileID: 1-SAMP-M8430.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dibromochloromethane	ND		0.50	0.02	µg/L	1	12/05/05 15:44
1,2-Dibromoethane	ND		0.50	0.03	µg/L	1	12/05/05 15:44
Chlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
Ethylbenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
Xylenes (total)	ND		1.00	0.04	µg/L	1	12/05/05 15:44
Styrene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
Bromofom	ND		0.50	0.13	µg/L	1	12/05/05 15:44
Isopropylbenzene	0.49	J	0.50	0.02	µg/L	1	12/05/05 15:44
1,1,2,2-Tetrachloroethane	ND		0.50	0.05	µg/L	1	12/05/05 15:44
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	12/05/05 15:44
1,4-Dichlorobenzene	ND		0.50	0.04	µg/L	1	12/05/05 15:44
1,2-Dichlorobenzene	ND		0.50	0.07	µg/L	1	12/05/05 15:44
1,2-Dibromo-3-chloropropane	ND		1.00	0.22	µg/L	1	12/05/05 15:44
1,2,4-Trichlorobenzene	ND		1.00	0.13	µg/L	1	12/05/05 15:44
Sum: Dibromofluoromethane	94.8		75-127	0.05	%REC	1	12/05/05 15:44
Sum: 1,2-Dichloroethane-d4	93.5		75-134	0.04	%REC	1	12/05/05 15:44
Sum: Toluene-d8	97.9		75-125	0.02	%REC	1	12/05/05 15:44
Sum: 4-Bromofluorobenzene	109		75-125	0.07	%REC	1	12/05/05 15:44

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: KESSMAN

W Order: 0512009

Matrix: WATER

Lab ID: 0512009-005A

Client Sample ID: MW-20B-11-05

Collection Date: 11/30/05 15:30

Date Received: 12/01/05 9:00

Inst. ID: MS02 12

Sample Size: 25 mL

PrepDate:

ColumnID: Rtx-502.2

%Moisture:

BatchNo: R3652

Revision: 12/07/05

TestCode: 8260W OLM42

FileID:

1-SAMP-M8431.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.03	µg/L	1	12/05/05 16:26
Chloromethane	ND		1.00	0.03	µg/L	1	12/05/05 16:26
Vinyl chloride	ND		1.00	0.03	µg/L	1	12/05/05 16:26
Bromomethane	ND		1.00	0.10	µg/L	1	12/05/05 16:26
Chloroethane	ND		1.00	0.08	µg/L	1	12/05/05 16:26
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	12/05/05 16:26
1,1-Dichloroethene	ND		0.50	0.02	µg/L	1	12/05/05 16:26
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.05	µg/L	1	12/05/05 16:26
Acetone	ND		10.0	0.23	µg/L	1	12/05/05 16:26
Carbon disulfide	ND		0.50	0.03	µg/L	1	12/05/05 16:26
Methyl acetate	ND		0.50	0.05	µg/L	1	12/05/05 16:26
Methylene chloride	0.10	J	2.00	0.09	µg/L	1	12/05/05 16:26
trans-1,2-Dichloroethene	ND		0.50	0.04	µg/L	1	12/05/05 16:26
Methyl tert-butyl ether	ND		0.50	0.03	µg/L	1	12/05/05 16:26
1,1-Dichloroethane	1.82		0.50	0.02	µg/L	1	12/05/05 16:26
cis-1,2-Dichloroethene	0.26	J	0.50	0.04	µg/L	1	12/05/05 16:26
2-Butanone	ND		10.0	0.68	µg/L	1	12/05/05 16:26
Chloroform	ND		0.50	0.02	µg/L	1	12/05/05 16:26
1,1,1-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 16:26
Cyclohexane	ND		0.50	0.02	µg/L	1	12/05/05 16:26
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	12/05/05 16:26
Benzene	0.47	J	0.50	0.02	µg/L	1	12/05/05 16:26
1,2-Dichloroethane	1.41		0.50	0.02	µg/L	1	12/05/05 16:26
Trichloroethene	ND		0.50	0.03	µg/L	1	12/05/05 16:26
Methylcyclohexane	ND		0.50	0.03	µg/L	1	12/05/05 16:26
1,2-Dichloropropane	ND		0.50	0.05	µg/L	1	12/05/05 16:26
Bromodichloromethane	ND		0.50	0.02	µg/L	1	12/05/05 16:26
cis-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 16:26
4-Methyl-2-pentanone	ND		5.00	1.20	µg/L	1	12/05/05 16:26
Toluene	ND		0.50	0.02	µg/L	1	12/05/05 16:26
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	12/05/05 16:26
1,1,2-Trichloroethane	ND		0.50	0.04	µg/L	1	12/05/05 16:26
Tetrachloroethene	ND		0.50	0.05	µg/L	1	12/05/05 16:26
2-Hexanone	ND		5.00	0.36	µg/L	1	12/05/05 16:26

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

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Perm/Conf column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: KESSMAN
W Order: 0512009
Matrix: WATER

Lab ID: 0512009-005A
Client Sample ID: *MIV-20B-11-05*
Collection Date: 11/30/05 15:30
Date Received: 12/01/05 9:00

Inst. ID: MS02 12 Sample Size: 25 mL
ColumnID: Rtx-502.2 %Moisture:
Revision: 12/07/05 TestCode: 8260W OLM42

PrepDate:
BatchNo: R3652
FileID: 1-SAMP-M8431.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dibromochloromethane	ND	0.50	0.02		µg/L	1	12/05/05 16:26
1,2-Dibromoethane	ND	0.50	0.03		µg/L	1	12/05/05 16:26
Chlorobenzene	ND	0.50	0.02		µg/L	1	12/05/05 16:26
Ethylbenzene	ND	0.50	0.02		µg/L	1	12/05/05 16:26
Xylenes (total)	ND	1.00	0.04		µg/L	1	12/05/05 16:26
Styrene	ND	0.50	0.02		µg/L	1	12/05/05 16:26
Bromoform	ND	0.50	0.13		µg/L	1	12/05/05 16:26
Isopropylbenzene	2.88	0.50	0.02		µg/L	1	12/05/05 16:26
1,1,2,2-Tetrachloroethane	ND	0.50	0.05		µg/L	1	12/05/05 16:26
1,3-Dichlorobenzene	ND	0.50	0.02		µg/L	1	12/05/05 16:26
1,4-Dichlorobenzene	ND	0.50	0.04		µg/L	1	12/05/05 16:26
1,2-Dichlorobenzene	ND	0.50	0.07		µg/L	1	12/05/05 16:26
1,2-Dibromo-3-chloropropane	ND	1.00	0.22		µg/L	1	12/05/05 16:26
1,2,4-Trichlorobenzene	ND	1.00	0.13		µg/L	1	12/05/05 16:26
Surr: Dibromofluoromethane	102	75-127	0.05		%REC	1	12/05/05 16:26
Surr: 1,2-Dichloroethane-d4	93.6	75-134	0.04		%REC	1	12/05/05 16:26
Surr: Toluene-d8	96.2	75-125	0.02		%REC	1	12/05/05 16:26
Surr: 4-Bromofluorobenzene	117	75-125	0.07		%REC	1	12/05/05 16:26

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

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND

ANALYTICAL SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		VOA GC/MS Method#	BNA GC/MS Method#	VOA GC Method#	PEST PCBs Method#	METALS	OTHER
MW1A-1106	0611143-001A	8260					
MW1A-1106	0611143-001B					200.7, 245.1	
MW1A-1106	0611143-001C						405.1, 300.0, 160.2
MW1A-1106	0611143-001D						410.4
MW1A-1106	0611143-001E						415.1
MW1B-1106	0611143-002A	8260					
MW1B-1106	0611143-002B					200.7, 245.1	
MW1B-1106	0611143-002C						405.1, 300.0, 160.2
MW1B-1106	0611143-002D						410.4
MW1B-1106	0611143-002E						415.1
MW20A-1106	0611143-003A	8260					
MW20A-1106	0611143-003B					200.7, 245.1	
MW20A-1106	0611143-003C						405.1, 300.0, 160.2
MW20A-1106	0611143-003D						410.4
MW20A-1106	0611143-003E						415.1
MW20B-1106	0611143-004A	8260					
MW20B-1106	0611143-004B					200.7, 245.1	
MW20B-1106	0611143-004C						405.1, 300.0, 160.2
MW20B-1106	0611143-004D						410.4
MW20B-1106	0611143-004E						415.1
MW3A-1106	0611143-005A	8260					
MW3A-1106	0611143-005B					200.7, 245.1	
MW3A-1106	0611143-005C						405.1, 300.0, 160.2
MW3A-1106	0611143-005D						410.4
MW3A-1106	0611143-005E						415.1
MW3B-1106	0611143-006A	8260					
MW3B-1106	0611143-006A MS/MSD	8260					
MW3B-1106	0611143-006B					200.7, 245.1	
MW3B-1106	0611143-006B MS/MSD					200.7, 245.1	
MW3B-1106	0611143-006C						405.1, 300.0, 160.2
MW3B-1106	0611143-006C MS/MSD						405.1, 300.0, 160.2
MW3B-1106	0611143-006D						410.4
MW3B-1106	0611143-006D MS/MSD						410.4
MW3B-1106	0611143-006E						415.1
MW3B-1106	0611143-006E MS/MSD						415.1
MW5A-1106	0611143-007A	8260					
MW5A-1106	0611143-007B					200.7, 245.1	
MW5A-1106	0611143-007C						405.1, 300.0, 160.2
MW5A-1106	0611143-007D						410.4
MW5A-1106	0611143-007E						415.1
MW5B-1106	0611143-008A	8260					
MW5B-1106	0611143-008B					200.7, 245.1	
MW5B-1106	0611143-008C						405.1, 300.0, 160.2
MW5B-1106	0611143-008D						410.4
MW5B-1106	0611143-008E						415.1
SW1-1106	0611143-009A	8260					
SW1-1106	0611143-009B					200.7, 245.1	

SW1-1106	0611143-009C					405.1, 300.0, 160.2
SW1-1106	0611143-009D					410.4
SW1-1106	0611143-009E					415.1
SW2-1106	0611143-010A	8260				
SW2-1106	0611143-010B				200.7, 245.1	
SW2-1106	0611143-010C					405.1, 300.0, 160.2
SW2-1106	0611143-010D					410.4
SW2-1106	0611143-010E					415.1
SW3-1106	0611143-011A	8260				
SW3-1106	0611143-011B				200.7, 245.1	
SW3-1106	0611143-011C					405.1, 300.0, 160.2
SW3-1106	0611143-011D					410.4
SW3-1106	0611143-011E					415.1
SW4-1106	0611143-012A	8260				
SW4-1106	0611143-012B				200.7, 245.1	
SW4-1106	0611143-012C					405.1, 300.0, 160.2
SW4-1106	0611143-012D					410.4
SW4-1106	0611143-012E					415.1
MH-1106	0611143-013A	8260				
MH-1106	0611143-013B				200.7, 245.1	
MH-1106	0611143-013C					405.1, 300.0, 160.2
MH-1106	0611143-013D					410.4
MH-1106	0611143-013E					415.1
QC Trip Blank	0611143-014A	8260				



Life Science Laboratories, Inc.
Brittonfield Lab

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

Chain of Custody

Page 1 of 2

Client: <u>NYSDEC</u>		Analysis/Method			
Project: <u>Kessman</u>		VOC			
Sampled by: <u>Jennifer Carter / Dan Tasciento</u>		Metals			
Client Contact: <u>Jennifer Carter</u> Phone # <u>518 941-9274</u>		TS's/Boil/Cl			
		COP			
		Toc			
		Comments			
Sample Description					
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers
MW1A-1106	11/16/06	4:30 PM	GW	G	7
MW1B-1106	11/16	9:45 AM			
MW20A-1106		11:55			
MW20B-1106		12:10			
MW3A-1106		3 PM			
MW3B-1106		3:10			
MW5A-1106		11:50			
MW5B-1106		11:55			
SW1-1106		11:20 SW			
SW2-1106		12:50			
SW3-1106		11:10			
SW4-1106		3:45			
Relinquished by: <u>Jennifer Carter</u>		Date: <u>11/16/06</u>	Time: <u>6:15 PM</u>	Received by:	
Relinquished by: <u>[Signature]</u>		Date:	Time:	Received by:	
Relinquished by:		Date:	Time:	Received by Lab: <u>[Signature]</u>	
Shipment Method:		Date: <u>11-17-06</u>		Time: <u>8:40</u>	
Turnaround Time Required:		Comments:			
Routine					
Rush (Specify)					
Temperature: <u>40</u>					



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-001A

Client Sample ID: MWIA-1106

Collection Date: 11/16/06 4:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0721.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	11/21/06 1:27	
Chloromethane	ND	1.00	0.13	µg/L	1	11/21/06 1:27	
Vinyl chloride	ND	1.00	0.04	µg/L	1	11/21/06 1:27	
Bromomethane	ND	1.00	0.06	µg/L	1	11/21/06 1:27	
Chloroethane	ND	1.00	0.12	µg/L	1	11/21/06 1:27	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	11/21/06 1:27	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	11/21/06 1:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	11/21/06 1:27	
Acetone	ND	10.0	0.82	µg/L	1	11/21/06 1:27	
Carbon disulfide	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
Methyl acetate	ND	0.50	0.30	µg/L	1	11/21/06 1:27	
Methylene chloride	ND	2.00	0.03	µg/L	1	11/21/06 1:27	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
2-Butanone	ND	10.0	0.65	µg/L	1	11/21/06 1:27	
Chloroform	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
Cyclohexane	ND	0.50	0.06	µg/L	1	11/21/06 1:27	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
Benzene	ND	0.50	0.01	µg/L	1	11/21/06 1:27	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
Trichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	11/21/06 1:27	
Toluene	ND	0.50	0.02	µg/L	1	11/21/06 1:27	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 1:27	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	11/21/06 1:27	

Qualifiers:

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

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



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-001A

Client Sample ID: MW1A-1106

Collection Date: 11/16/06 4:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0721.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 1:27
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 1:27
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 1:27
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 1:27
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 1:27
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 1:27
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 1:27
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 1:27
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 1:27
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 1:27
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	11/21/06 1:27
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	11/21/06 1:27
Surr: Toluene-d8	102		75-125	0.01	%REC	1	11/21/06 1:27
Surr: 4-Bromofluorobenzene	93.2		75-125	0.04	%REC	1	11/21/06 1:27

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Kessman
W Order: 0611143
Matrix: GROUNDWATER
Inst. ID: MS03 10
ColumnID: Rtx-VMS
Revision: 11/21/06 12:47
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0611143-002A
Client Sample ID: MWIB-1106
Collection Date: 11/16/06 4:45
Date Received: 11/17/06 8:40
PrepDate:
BatchNo: R7483
FileID: 1-SAMP-J0722.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	11/21/06 2:00	
Chloromethane	ND	1.00	0.13	µg/L	1	11/21/06 2:00	
Vinyl chloride	ND	1.00	0.04	µg/L	1	11/21/06 2:00	
Bromomethane	ND	1.00	0.06	µg/L	1	11/21/06 2:00	
Chloroethane	ND	1.00	0.12	µg/L	1	11/21/06 2:00	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	11/21/06 2:00	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	11/21/06 2:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	11/21/06 2:00	
Acetone	ND	10.0	0.82	µg/L	1	11/21/06 2:00	
Carbon disulfide	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
Methyl acetate	ND	0.50	0.30	µg/L	1	11/21/06 2:00	
Methylene chloride	ND	2.00	0.03	µg/L	1	11/21/06 2:00	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
2-Butanone	ND	10.0	0.65	µg/L	1	11/21/06 2:00	
Chloroform	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
Cyclohexane	ND	0.50	0.06	µg/L	1	11/21/06 2:00	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
Benzene	ND	0.50	0.01	µg/L	1	11/21/06 2:00	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
Trichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	11/21/06 2:00	
Toluene	ND	0.50	0.02	µg/L	1	11/21/06 2:00	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 2:00	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	11/21/06 2:00	

Qualifiers:

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-002A
Project: Kessman	Client Sample ID: MW1B-1106
W Order: 0611143	Collection Date: 11/16/06 4:45
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: MS03 10	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 11/21/06 12:47	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R7483
	FileID: 1-SAMP-J0722.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 2:00
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 2:00
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 2:00
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 2:00
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 2:00
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 2:00
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 2:00
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:00
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 2:00
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 2:00
Surr: Dibromofluoromethane	109		75-127	0.03	%REC	1	11/21/06 2:00
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	11/21/06 2:00
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 2:00
Surr: 4-Bromofluorobenzene	94.5		75-125	0.04	%REC	1	11/21/06 2:00

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-003A

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0723.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 2:34
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 2:34
Vinyl chloride	0.14	J	1.00	0.04	µg/L	1	11/21/06 2:34
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 2:34
Chloroethane	0.39	J	1.00	0.12	µg/L	1	11/21/06 2:34
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 2:34
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 2:34
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 2:34
Acetone	1.05	J	10.0	0.82	µg/L	1	11/21/06 2:34
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 2:34
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 2:34
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 2:34
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 2:34
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 2:34
1,1-Dichloroethane	1.29		0.50	0.03	µg/L	1	11/21/06 2:34
cis-1,2-Dichloroethene	0.21	J	0.50	0.03	µg/L	1	11/21/06 2:34
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 2:34
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 2:34
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 2:34
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 2:34
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 2:34
Benzene	0.41	J	0.50	0.01	µg/L	1	11/21/06 2:34
1,2-Dichloroethane	1.66		0.50	0.02	µg/L	1	11/21/06 2:34
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 2:34
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 2:34
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 2:34
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 2:34
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 2:34
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 2:34
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 2:34
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 2:34

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-003A

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0723.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 2:34
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 2:34
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 2:34
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 2:34
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 2:34
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 2:34
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 2:34
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 2:34
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 2:34
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 2:34
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	11/21/06 2:34
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	11/21/06 2:34
Surr: Toluene-d8	99.2		75-125	0.01	%REC	1	11/21/06 2:34
Surr: 4-Bromofluorobenzene	95.4		75-125	0.04	%REC	1	11/21/06 2:34

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-004A

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0724.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 3:08
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 3:08
Vinyl chloride	0.13	J	1.00	0.04	µg/L	1	11/21/06 3:08
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 3:08
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 3:08
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 3:08
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 3:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 3:08
Acetone	ND		10.0	0.82	µg/L	1	11/21/06 3:08
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 3:08
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 3:08
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 3:08
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 3:08
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 3:08
1,1-Dichloroethane	1.13		0.50	0.03	µg/L	1	11/21/06 3:08
cis-1,2-Dichloroethene	0.16	J	0.50	0.03	µg/L	1	11/21/06 3:08
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 3:08
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 3:08
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 3:08
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 3:08
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 3:08
Benzene	0.32	J	0.50	0.01	µg/L	1	11/21/06 3:08
1,2-Dichloroethane	1.37		0.50	0.02	µg/L	1	11/21/06 3:08
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 3:08
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 3:08
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 3:08
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 3:08
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 3:08
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 3:08
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 3:08
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 3:08

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-004A

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0724.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 3:08
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 3:08
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 3:08
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 3:08
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 3:08
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 3:08
Isopropylbenzene	0.50		0.50	0.02	µg/L	1	11/21/06 3:08
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 3:08
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:08
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 3:08
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 3:08
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	11/21/06 3:08
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	11/21/06 3:08
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 3:08
Surr: 4-Bromofluorobenzene	93.7		75-125	0.04	%REC	1	11/21/06 3:08

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-005A

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0725.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1	11/21/06 3:42	
Chloromethane	ND	1.00	0.13	µg/L	1	11/21/06 3:42	
Vinyl chloride	ND	1.00	0.04	µg/L	1	11/21/06 3:42	
Bromomethane	ND	1.00	0.06	µg/L	1	11/21/06 3:42	
Chloroethane	ND	1.00	0.12	µg/L	1	11/21/06 3:42	
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1	11/21/06 3:42	
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1	11/21/06 3:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1	11/21/06 3:42	
Acetone	ND	10.0	0.82	µg/L	1	11/21/06 3:42	
Carbon disulfide	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
Methyl acetate	ND	0.50	0.30	µg/L	1	11/21/06 3:42	
Methylene chloride	ND	2.00	0.03	µg/L	1	11/21/06 3:42	
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
2-Butanone	ND	10.0	0.65	µg/L	1	11/21/06 3:42	
Chloroform	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
Cyclohexane	ND	0.50	0.06	µg/L	1	11/21/06 3:42	
Carbon tetrachloride	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
Benzene	ND	0.50	0.01	µg/L	1	11/21/06 3:42	
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
Trichloroethene	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
Methylcyclohexane	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
Bromodichloromethane	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1	11/21/06 3:42	
Toluene	ND	0.50	0.02	µg/L	1	11/21/06 3:42	
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1	11/21/06 3:42	
Tetrachloroethene	ND	0.50	0.03	µg/L	1	11/21/06 3:42	

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-005A

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0725.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 3:42
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 3:42
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 3:42
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 3:42
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 3:42
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 3:42
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 3:42
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 3:42
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 3:42
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 3:42
Surr: Dibromofluoromethane	108		75-127	0.03	%REC	1	11/21/06 3:42
Surr: 1,2-Dichloroethane-d4	118		75-134	0.04	%REC	1	11/21/06 3:42
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 3:42
Surr: 4-Bromofluorobenzene	95.7		75-125	0.04	%REC	1	11/21/06 3:42

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-006A

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0726.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 4:16
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 4:16
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/21/06 4:16
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 4:16
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 4:16
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 4:16
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 4:16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 4:16
Acetone	ND		10.0	0.82	µg/L	1	11/21/06 4:16
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 4:16
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 4:16
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 4:16
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:16
Methyl tert-butyl ether	0.24	J	0.50	0.02	µg/L	1	11/21/06 4:16
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 4:16
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:16
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 4:16
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 4:16
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 4:16
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 4:16
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 4:16
Benzene	ND		0.50	0.01	µg/L	1	11/21/06 4:16
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 4:16
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:16
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 4:16
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 4:16
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 4:16
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 4:16
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 4:16
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 4:16
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:16

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-006A

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0726.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 4:16
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 4:16
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 4:16
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 4:16
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 4:16
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 4:16
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 4:16
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:16
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 4:16
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 4:16
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	11/21/06 4:16
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	11/21/06 4:16
Surr: Toluene-d8	102		75-125	0.01	%REC	1	11/21/06 4:16
Surr: 4-Bromofluorobenzene	92.3		75-125	0.04	%REC	1	11/21/06 4:16

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-007A

Client Sample ID: MW5A-1106

Collection Date: 11/16/06 11:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: I-SAMP-J0727.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 4:50
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 4:50
Vinyl chloride	0.20	J	1.00	0.04	µg/L	1	11/21/06 4:50
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 4:50
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 4:50
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 4:50
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 4:50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 4:50
Acetone	2.09	J	10.0	0.82	µg/L	1	11/21/06 4:50
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 4:50
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 4:50
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 4:50
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:50
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 4:50
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 4:50
cis-1,2-Dichloroethene	0.11	J	0.50	0.03	µg/L	1	11/21/06 4:50
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 4:50
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 4:50
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 4:50
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 4:50
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 4:50
Benzene	0.44	J	0.50	0.01	µg/L	1	11/21/06 4:50
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 4:50
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:50
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 4:50
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 4:50
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 4:50
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 4:50
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 4:50
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 4:50
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 4:50
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 4:50
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 4:50

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-007A

Client Sample ID: MW5A-1106

Collection Date: 11/16/06 11:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0727.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 4:50
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 4:50
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 4:50
Chlorobenzene	3.77		0.50	0.01	µg/L	1	11/21/06 4:50
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 4:50
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 4:50
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 4:50
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 4:50
Isopropylbenzene	0.13	J	0.50	0.02	µg/L	1	11/21/06 4:50
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 4:50
1,3-Dichlorobenzene	0.22	J	0.50	0.02	µg/L	1	11/21/06 4:50
1,4-Dichlorobenzene	1.17		0.50	0.02	µg/L	1	11/21/06 4:50
1,2-Dichlorobenzene	1.01		0.50	0.02	µg/L	1	11/21/06 4:50
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 4:50
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 4:50
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	11/21/06 4:50
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	11/21/06 4:50
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 4:50
Surr: 4-Bromofluorobenzene	94.7		75-125	0.04	%REC	1	11/21/06 4:50

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-008A

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0732.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 7:39
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 7:39
Vinyl chloride	0.19	J	1.00	0.04	µg/L	1	11/21/06 7:39
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 7:39
Chloroethane	0.97	J	1.00	0.12	µg/L	1	11/21/06 7:39
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 7:39
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 7:39
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 7:39
Acetone	2.20	J	10.0	0.82	µg/L	1	11/21/06 7:39
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 7:39
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 7:39
Methylene chloride	0.15	J	2.00	0.03	µg/L	1	11/21/06 7:39
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:39
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 7:39
1,1-Dichloroethane	0.41	J	0.50	0.03	µg/L	1	11/21/06 7:39
cis-1,2-Dichloroethene	0.50		0.50	0.03	µg/L	1	11/21/06 7:39
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 7:39
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 7:39
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 7:39
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 7:39
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 7:39
Benzene	1.03		0.50	0.01	µg/L	1	11/21/06 7:39
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 7:39
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:39
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 7:39
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 7:39
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 7:39
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 7:39
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 7:39
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 7:39
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 7:39
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 7:39
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:39

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-008A

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0732.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 7:39
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 7:39
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 7:39
Chlorobenzene	5.94		0.50	0.01	µg/L	1	11/21/06 7:39
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:39
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 7:39
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 7:39
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 7:39
Isopropylbenzene	0.14	J	0.50	0.02	µg/L	1	11/21/06 7:39
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 7:39
1,3-Dichlorobenzene	0.10	J	0.50	0.02	µg/L	1	11/21/06 7:39
1,4-Dichlorobenzene	1.22		0.50	0.02	µg/L	1	11/21/06 7:39
1,2-Dichlorobenzene	0.79		0.50	0.02	µg/L	1	11/21/06 7:39
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 7:39
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 7:39
Surr: Dibromofluoromethane	108		75-127	0.03	%REC	1	11/21/06 7:39
Surr: 1,2-Dichloroethane-d4	119		75-134	0.04	%REC	1	11/21/06 7:39
Surr: Toluene-d8	102		75-125	0.01	%REC	1	11/21/06 7:39
Surr: 4-Bromofluorobenzene	93.7		75-125	0.04	%REC	1	11/21/06 7:39

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-009A

Client Sample ID: SW1-1106

Collection Date: 11/16/06 11:20

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0728.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 5:24
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 5:24
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/21/06 5:24
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 5:24
Chloroethane	0.26	J	1.00	0.12	µg/L	1	11/21/06 5:24
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 5:24
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 5:24
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 5:24
Acetone	1.85	J	10.0	0.82	µg/L	1	11/21/06 5:24
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 5:24
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 5:24
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 5:24
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:24
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 5:24
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 5:24
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:24
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 5:24
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 5:24
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 5:24
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 5:24
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 5:24
Benzene	ND		0.50	0.01	µg/L	1	11/21/06 5:24
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 5:24
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:24
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 5:24
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 5:24
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 5:24
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 5:24
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 5:24
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 5:24
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:24

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-009A

Client Sample ID: SW1-1106

Collection Date: 11/16/06 11:20

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0728.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 5:24
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 5:24
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 5:24
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 5:24
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 5:24
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 5:24
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 5:24
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:24
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 5:24
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 5:24
Surr: Dibromofluoromethane	110		75-127	0.03	%REC	1	11/21/06 5:24
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	11/21/06 5:24
Surr: Toluene-d8	101		75-125	0.01	%REC	1	11/21/06 5:24
Surr: 4-Bromofluorobenzene	95.1		75-125	0.04	%REC	1	11/21/06 5:24

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Kessman
W Order: 0611143
Matrix: SURFACE WATER
Inst. ID: MS03 10
ColumnID: Rtx-VMS
Revision: 11/21/06 12:47
Col Type:

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Lab ID: 0611143-010A
Client Sample ID: SW2-1106
Collection Date: 11/16/06 12:50
Date Received: 11/17/06 8:40
PrepDate:
BatchNo: R7483
FileID: 1-SAMP-J0729.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 5:57
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 5:57
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/21/06 5:57
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 5:57
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 5:57
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 5:57
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 5:57
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 5:57
Acetone	1.81	J	10.0	0.82	µg/L	1	11/21/06 5:57
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 5:57
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 5:57
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 5:57
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:57
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 5:57
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 5:57
cis-1,2-Dichloroethene	0.17	J	0.50	0.03	µg/L	1	11/21/06 5:57
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 5:57
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 5:57
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 5:57
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 5:57
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 5:57
Benzene	ND		0.50	0.01	µg/L	1	11/21/06 5:57
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 5:57
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:57
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 5:57
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 5:57
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 5:57
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 5:57
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 5:57
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 5:57
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 5:57

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-010A

Client Sample ID: SW2-1106

Collection Date: 11/16/06 12:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0729.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 5:57
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 5:57
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 5:57
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 5:57
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 5:57
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 5:57
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 5:57
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 5:57
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 5:57
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 5:57
Surr: Dibromofluoromethane	108		75-127	0.03	%REC	1	11/21/06 5:57
Surr: 1,2-Dichloroethane-d4	119		75-134	0.04	%REC	1	11/21/06 5:57
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 5:57
Surr: 4-Bromofluorobenzene	94.1		75-125	0.04	%REC	1	11/21/06 5:57

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-011A

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0730.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 6:31
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 6:31
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/21/06 6:31
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 6:31
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 6:31
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 6:31
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 6:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 6:31
Acetone	1.42	J	10.0	0.82	µg/L	1	11/21/06 6:31
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 6:31
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 6:31
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 6:31
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 6:31
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 6:31
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 6:31
cis-1,2-Dichloroethene	0.15	J	0.50	0.03	µg/L	1	11/21/06 6:31
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 6:31
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 6:31
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 6:31
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 6:31
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 6:31
Benzene	ND		0.50	0.01	µg/L	1	11/21/06 6:31
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 6:31
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 6:31
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 6:31
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 6:31
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 6:31
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 6:31
Toluene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 6:31
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 6:31
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 6:31

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-011A

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0730.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 6:31
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 6:31
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 6:31
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 6:31
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 6:31
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 6:31
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 6:31
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 6:31
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 6:31
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 6:31
Surr: Dibromofluoromethane	109		75-127	0.03	%REC	1	11/21/06 6:31
Surr: 1,2-Dichloroethane-d4	119		75-134	0.04	%REC	1	11/21/06 6:31
Surr: Toluene-d8	104		75-125	0.01	%REC	1	11/21/06 6:31
Surr: 4-Bromofluorobenzene	94.5		75-125	0.04	%REC	1	11/21/06 6:31

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 11/21/06 12:47

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-012A

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7483

FileID: 1-SAMP-J0731.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/21/06 7:05
Chloromethane	ND		1.00	0.13	µg/L	1	11/21/06 7:05
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/21/06 7:05
Bromomethane	ND		1.00	0.06	µg/L	1	11/21/06 7:05
Chloroethane	ND		1.00	0.12	µg/L	1	11/21/06 7:05
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/21/06 7:05
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/21/06 7:05
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/21/06 7:05
Acetone	1.61	J	10.0	0.82	µg/L	1	11/21/06 7:05
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/21/06 7:05
Methyl acetate	ND		0.50	0.30	µg/L	1	11/21/06 7:05
Methylene chloride	ND		2.00	0.03	µg/L	1	11/21/06 7:05
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:05
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	11/21/06 7:05
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 7:05
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:05
2-Butanone	ND		10.0	0.65	µg/L	1	11/21/06 7:05
Chloroform	ND		0.50	0.03	µg/L	1	11/21/06 7:05
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 7:05
Cyclohexane	ND		0.50	0.06	µg/L	1	11/21/06 7:05
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/21/06 7:05
Benzene	ND		0.50	0.01	µg/L	1	11/21/06 7:05
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/21/06 7:05
Trichloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:05
Methylcyclohexane	ND		0.50	0.03	µg/L	1	11/21/06 7:05
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/21/06 7:05
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/21/06 7:05
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/21/06 7:05
Toluene	0.33	J	0.50	0.02	µg/L	1	11/21/06 7:05
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/21/06 7:05
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/21/06 7:05
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/21/06 7:05

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-012A
Project: Kessman	Client Sample ID: SW4-1106
W Order: 0611143	Collection Date: 11/16/06 15:45
Matrix: SURFACE WATER	Date Received: 11/17/06 8:40
Inst. ID: MS03 10	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R7483
Revision: 11/21/06 12:47	FileID: 1-SAMP-J0731.D
Col Type:	

Sample Size: 10 mL
%Moisture:
TestCode: 8260W OLM42

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/21/06 7:05
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/21/06 7:05
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/21/06 7:05
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/21/06 7:05
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/21/06 7:05
Styrene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
Bromoform	ND		0.50	0.05	µg/L	1	11/21/06 7:05
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/21/06 7:05
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/21/06 7:05
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/21/06 7:05
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/21/06 7:05
Surr: Dibromofluoromethane	110		75-127	0.03	%REC	1	11/21/06 7:05
Surr: 1,2-Dichloroethane-d4	119		75-134	0.04	%REC	1	11/21/06 7:05
Surr: Toluene-d8	103		75-125	0.01	%REC	1	11/21/06 7:05
Surr: 4-Bromofluorobenzene	94.4		75-125	0.04	%REC	1	11/21/06 7:05

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 11/27/06 13:00

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-013A

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7488

FileID: 1-SAMP-T5635.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	11/22/06 15:52
Chloromethane	ND		1.00	0.13	µg/L	1	11/22/06 15:52
Vinyl chloride	ND		1.00	0.04	µg/L	1	11/22/06 15:52
Bromomethane	ND		1.00	0.06	µg/L	1	11/22/06 15:52
Chloroethane	0.49	J	1.00	0.12	µg/L	1	11/22/06 15:52
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	11/22/06 15:52
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	11/22/06 15:52
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	11/22/06 15:52
Acetone	1.33	J	10.0	0.82	µg/L	1	11/22/06 15:52
Carbon disulfide	ND		0.50	0.02	µg/L	1	11/22/06 15:52
Methyl acetate	ND		0.50	0.30	µg/L	1	11/22/06 15:52
Methylene chloride	ND		2.00	0.03	µg/L	1	11/22/06 15:52
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	11/22/06 15:52
Methyl tert-butyl ether	0.12	J	0.50	0.02	µg/L	1	11/22/06 15:52
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	11/22/06 15:52
cis-1,2-Dichloroethene	0.11	J	0.50	0.03	µg/L	1	11/22/06 15:52
2-Butanone	ND		10.0	0.65	µg/L	1	11/22/06 15:52
Chloroform	ND		0.50	0.03	µg/L	1	11/22/06 15:52
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	11/22/06 15:52
Cyclohexane	0.42	J	0.50	0.06	µg/L	1	11/22/06 15:52
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	11/22/06 15:52
Benzene	2.89		0.50	0.01	µg/L	1	11/22/06 15:52
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	11/22/06 15:52
Trichloroethene	ND		0.50	0.03	µg/L	1	11/22/06 15:52
Methylcyclohexane	0.38	J	0.50	0.03	µg/L	1	11/22/06 15:52
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	11/22/06 15:52
Bromodichloromethane	ND		0.50	0.03	µg/L	1	11/22/06 15:52
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	11/22/06 15:52
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	11/22/06 15:52
Toluene	0.12	J	0.50	0.02	µg/L	1	11/22/06 15:52
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	11/22/06 15:52
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	11/22/06 15:52
Tetrachloroethene	ND		0.50	0.03	µg/L	1	11/22/06 15:52

Qualifiers:

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

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 11/27/06 13:00

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0611143-013A

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7488

FileID: 1-SAMP-T5635.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/22/06 15:52
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/22/06 15:52
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/22/06 15:52
Chlorobenzene	11.6		0.50	0.01	µg/L	1	11/22/06 15:52
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/22/06 15:52
Xylenes (total)	0.53	J	1.00	0.04	µg/L	1	11/22/06 15:52
Styrene	ND		0.50	0.02	µg/L	1	11/22/06 15:52
Bromoform	ND		0.50	0.05	µg/L	1	11/22/06 15:52
Isopropylbenzene	1.91		0.50	0.02	µg/L	1	11/22/06 15:52
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/22/06 15:52
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/22/06 15:52
1,4-Dichlorobenzene	2.74		0.50	0.02	µg/L	1	11/22/06 15:52
1,2-Dichlorobenzene	0.37	J	0.50	0.02	µg/L	1	11/22/06 15:52
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/22/06 15:52
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/22/06 15:52
Surr: Dibromofluoromethane	97.9		75-127	0.03	%REC	1	11/22/06 15:52
Surr: 1,2-Dichloroethane-d4	102		75-134	0.04	%REC	1	11/22/06 15:52
Surr: Toluene-d8	102		75-125	0.01	%REC	1	11/22/06 15:52
Surr: 4-Bromofluorobenzene	95.5		75-125	0.04	%REC	1	11/22/06 15:52

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-014A
Project: Kessman	Client Sample ID: <i>QC Trip Blank</i>
W Order: 0611143	Collection Date: 11/16/06 11:10
Matrix: WATER QUALITY CONTROL MATRIX	Date Received: 11/17/06 8:40
Inst. ID: MS01 11	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R7488
Revision: 11/27/06 13:00	FileID: 1-SAMP-T5636.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
SW8260B							
Dichlorodifluoromethane	ND	1.00	0.07	µg/L	1		11/22/06 16:26
Chloromethane	ND	1.00	0.13	µg/L	1		11/22/06 16:26
Vinyl chloride	ND	1.00	0.04	µg/L	1		11/22/06 16:26
Bromomethane	ND	1.00	0.06	µg/L	1		11/22/06 16:26
Chloroethane	ND	1.00	0.12	µg/L	1		11/22/06 16:26
Trichlorofluoromethane	ND	1.00	0.02	µg/L	1		11/22/06 16:26
1,1-Dichloroethene	ND	0.50	0.05	µg/L	1		11/22/06 16:26
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	0.04	µg/L	1		11/22/06 16:26
Acetone	1.14 J	10.0	0.82	µg/L	1		11/22/06 16:26
Carbon disulfide	ND	0.50	0.02	µg/L	1		11/22/06 16:26
Methyl acetate	ND	0.50	0.30	µg/L	1		11/22/06 16:26
Methylene chloride	ND	2.00	0.03	µg/L	1		11/22/06 16:26
trans-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1		11/22/06 16:26
Methyl tert-butyl ether	ND	0.50	0.02	µg/L	1		11/22/06 16:26
1,1-Dichloroethane	ND	0.50	0.03	µg/L	1		11/22/06 16:26
cis-1,2-Dichloroethene	ND	0.50	0.03	µg/L	1		11/22/06 16:26
2-Butanone	ND	10.0	0.65	µg/L	1		11/22/06 16:26
Chloroform	ND	0.50	0.03	µg/L	1		11/22/06 16:26
1,1,1-Trichloroethane	ND	0.50	0.02	µg/L	1		11/22/06 16:26
Cyclohexane	ND	0.50	0.06	µg/L	1		11/22/06 16:26
Carbon tetrachloride	ND	0.50	0.03	µg/L	1		11/22/06 16:26
Benzene	ND	0.50	0.01	µg/L	1		11/22/06 16:26
1,2-Dichloroethane	ND	0.50	0.02	µg/L	1		11/22/06 16:26
Trichloroethene	ND	0.50	0.03	µg/L	1		11/22/06 16:26
Methylcyclohexane	ND	0.50	0.03	µg/L	1		11/22/06 16:26
1,2-Dichloropropane	ND	0.50	0.03	µg/L	1		11/22/06 16:26
Bromodichloromethane	ND	0.50	0.03	µg/L	1		11/22/06 16:26
cis-1,3-Dichloropropene	ND	0.50	0.02	µg/L	1		11/22/06 16:26
4-Methyl-2-pentanone	ND	5.00	0.38	µg/L	1		11/22/06 16:26
Toluene	ND	0.50	0.02	µg/L	1		11/22/06 16:26
trans-1,3-Dichloropropene	ND	0.50	0.03	µg/L	1		11/22/06 16:26
1,1,2-Trichloroethane	ND	0.50	0.03	µg/L	1		11/22/06 16:26
Tetrachloroethene	ND	0.50	0.03	µg/L	1		11/22/06 16:26

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



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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-014A
Project: Kessman	Client Sample ID: <i>QC Trip Blank</i>
W Order: 0611143	Collection Date: 11/16/06 11:10
Matrix: WATER QUALITY CONTROL MATRIX	Date Received: 11/17/06 8:40
Inst. ID: MS01 11	PrepDate:
ColumnID: Rtx-VMS	BatchNo: R7488
Revision: 11/27/06 13:00	FileID: 1-SAMP-T5636.D
Col Type:	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyze
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	11/22/06 16:26
Dibromochloromethane	ND		0.50	0.04	µg/L	1	11/22/06 16:26
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	11/22/06 16:26
Chlorobenzene	ND		0.50	0.01	µg/L	1	11/22/06 16:26
Ethylbenzene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
Xylenes (total)	ND		1.00	0.04	µg/L	1	11/22/06 16:26
Styrene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
Bromoform	ND		0.50	0.05	µg/L	1	11/22/06 16:26
Isopropylbenzene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	11/22/06 16:26
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	11/22/06 16:26
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	11/22/06 16:26
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	11/22/06 16:26
Surr: Dibromofluoromethane	96.6		75-127	0.03	%REC	1	11/22/06 16:26
Surr: 1,2-Dichloroethane-d4	101		75-134	0.04	%REC	1	11/22/06 16:26
Surr: Toluene-d8	100		75-125	0.01	%REC	1	11/22/06 16:26
Surr: 4-Bromofluorobenzene	93.7		75-125	0.04	%REC	1	11/22/06 16:26

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

Print Date: 11/27/06 13:01

Project Supervisor: Thomas A. Alexander

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Life Science Laboratories, Inc Contract:
Lab Code: LSLB Case No. SAS No.: SDG No.: 0611143
SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID.
<u>MH-1106</u>	<u>0611143-013</u>
<u>MW1A-1106</u>	<u>0611143-001</u>
<u>MW1B-1106</u>	<u>0611143-002</u>
<u>MW20A-1106</u>	<u>0611143-003</u>
<u>MW20B-1106</u>	<u>0611143-004</u>
<u>MW3A-1106</u>	<u>0611143-005</u>
<u>MW3B-1106</u>	<u>0611143-006</u>
<u>MW3B-1106D</u>	<u>0611143-006</u>
<u>MW3B-1106S</u>	<u>0611143-006</u>
<u>MW5A-1106</u>	<u>0611143-007</u>
<u>MW5B-1106</u>	<u>0611143-008</u>
<u>SW1-1106</u>	<u>0611143-009</u>
<u>SW2-1106</u>	<u>0611143-010</u>
<u>SW3-1106</u>	<u>0611143-011</u>
<u>SW4-1106</u>	<u>0611143-012</u>

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Thomas A. Alexander Name: Thomas A. Alexander
Date: 12.27.06 Title: Project Manager

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW1A-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-001

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	863			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	176	B		P
7440-41-7	Beryllium	0.080	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	85900			P
7440-47-3	Chromium	5.7	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	1500		N	P
7439-92-1	Lead	1.4	B		P
7439-95-4	Magnesium	57700			P
7439-96-5	Manganese	45.3			P
7439-97-6	Mercury	0.014	B		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	7900		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	409000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	3.0	B		P
7440-66-6	Zinc	15.9	B		P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW1B-1106

Lab Name: Life Science Laboratories, Inc Contract:
 Lab Code: LSLB Case No. SAS No.: SDG No.: 0611143
 Matrix (soil/water): WATER Lab Sample ID: 0611143-002
 Level (low/med): LOW Date Received: 11/17/2006
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.6	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	98.7	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	183000			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	1.1	B		P
7439-89-6	Iron	152		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	77700			P
7439-96-5	Manganese	5.3	B		P
7439-97-6	Mercury	0.011	U		CV
7440-02-0	Nickel	1.6	B		P
7440-09-7	Potassium	10200		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	113000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.54	U		P
7440-66-6	Zinc	31.0			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW20A-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-003

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55500			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	14.9			P
7440-39-3	Barium	346			P
7440-41-7	Beryllium	1.7	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	229000			P
7440-47-3	Chromium	72.6			P
7440-48-4	Cobalt	43.1	B		P
7440-50-8	Copper	74.2			P
7439-89-6	Iron	104000		N	P
7439-92-1	Lead	34.6			P
7439-95-4	Magnesium	165000			P
7439-96-5	Manganese	2630			P
7439-97-6	Mercury	0.047	B		CV
7440-02-0	Nickel	85.2			P
7440-09-7	Potassium	30000		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	29600			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	85.9			P
7440-66-6	Zinc	239			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW20B-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-004

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	578			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	76.5	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	2.0	B		P
7440-70-2	Calcium	71200			P
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	1.1	B		P
7439-89-6	Iron	3840		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	68600			P
7439-96-5	Manganese	80.2			P
7439-97-6	Mercury	0.018	B		CV
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	15600		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	27500			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.90	B		P
7440-66-6	Zinc	19.5	B		P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW3A-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-005

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	173	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	462			P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	4.2	B		P
7440-70-2	Calcium	291000			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	4.8	B		P
7439-89-6	Iron	846		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	175000			P
7439-96-5	Manganese	147			P
7439-97-6	Mercury	0.014	B		CV
7440-02-0	Nickel	4.4	B		P
7440-09-7	Potassium	40600		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	587000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.54	U		P
7440-66-6	Zinc	49.8			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW3B-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-006

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32.8	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	638			P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.68	B		P
7440-70-2	Calcium	356000			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	1730		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	220000			P
7439-96-5	Manganese	77.2			P
7439-97-6	Mercury	0.014	B		CV
7440-02-0	Nickel	1.0	B		P
7440-09-7	Potassium	30700		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	740000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.54	U		P
7440-66-6	Zinc	22.7			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW5A-1106

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0611143

Matrix (soil/water): WATER Lab Sample ID: 0611143-007

Level (low/med): LOW Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1630			P
7440-36-0	Antimony	2.4	B		P
7440-38-2	Arsenic	12.6			P
7440-39-3	Barium	174	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	563			P
7440-70-2	Calcium	97400			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	78.2			P
7439-89-6	Iron	18900		N	P
7439-92-1	Lead	5.9			P
7439-95-4	Magnesium	103000			P
7439-96-5	Manganese	369			P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	121			P
7440-09-7	Potassium	11200		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	29700			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc	181			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW5B-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-008

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	73700			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	13.9			P
7440-39-3	Barium	654			P
7440-41-7	Beryllium	2.0	B		P
7440-43-9	Cadmium	1.8	B		P
7440-70-2	Calcium	642000			P
7440-47-3	Chromium	242			P
7440-48-4	Cobalt	59.8			P
7440-50-8	Copper	135			P
7439-89-6	Iron	129000		N	P
7439-92-1	Lead	46.0			P
7439-95-4	Magnesium	179000			P
7439-96-5	Manganese	8740			P
7439-97-6	Mercury	0.071	B		CV
7440-02-0	Nickel	117			P
7440-09-7	Potassium	32000		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	65900			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	110			P
7440-66-6	Zinc	312			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW1-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-009

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1230			P
7440-36-0	Antimony	2.4	B		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	135	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	57700			P
7440-47-3	Chromium	1.7	U		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	5240		N	P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	15000			P
7439-96-5	Manganese	668			P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	6480		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	105000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	2.2	B		P
7440-66-6	Zinc	54.8			P

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW2-1106

Lab Name: Life Science Laboratories, Inc Contract:
 Lab Code: LSLB Case No. SAS No.: SDG No.: 0611143
 Matrix (soil/water): WATER Lab Sample ID: 0611143-010
 Level (low/med): LOW Date Received: 11/17/2006
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.4	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	134	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	52600			P
7440-47-3	Chromium	1.7	U		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	0.54	B		P
7439-89-6	Iron	1040		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	15100			P
7439-96-5	Manganese	564			P
7439-97-6	Mercury	0.012	B		CV
7440-02-0	Nickel	0.97	B		P
7440-09-7	Potassium	7190		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	118000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.54	U		P
7440-66-6	Zinc	15.2	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW3-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-011

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19.1	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	117	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	57100			P
7440-47-3	Chromium	1.7	U		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	0.42	U		P
7439-89-6	Iron	472		N	P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	14600			P
7439-96-5	Manganese	1350			P
7439-97-6	Mercury	0.015	B		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	6380		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	104000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	0.54	U		P
7440-66-6	Zinc	15.2	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW4-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-012

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	122	B		P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	128	B		P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	66400			P
7440-47-3	Chromium	1.7	U		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	8300		N	P
7439-92-1	Lead	1.7	B		P
7439-95-4	Magnesium	20800			P
7439-96-5	Manganese	1450			P
7439-97-6	Mercury	0.014	B		CV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	7930		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	322000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	18.4	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MH-1106

Lab Name: Life Science Laboratories, Inc

Contract:

Lab Code: LSLB

Case No.

SAS No.:

SDG No.: 0611143

Matrix (soil/water): WATER

Lab Sample ID: 0611143-013

Level (low/med): LOW

Date Received: 11/17/2006

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	249			P
7440-36-0	Antimony	2.2	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	367			P
7440-41-7	Beryllium	0.060	U		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	131000			P
7440-47-3	Chromium	1.9	B		P
7440-48-4	Cobalt	1.8	U		P
7440-50-8	Copper	0.63	B		P
7439-89-6	Iron	59200		N	P
7439-92-1	Lead	2.1	B		P
7439-95-4	Magnesium	31500			P
7439-96-5	Manganese	1110			P
7439-97-6	Mercury	0.011	U		CV
7440-02-0	Nickel	2.5	B		P
7440-09-7	Potassium	7030		E	P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	0.93	U		P
7440-23-5	Sodium	177000			P
7440-28-0	Thallium	5.5	U	N	P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	16.1	B		P

Comments:



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-001C

Client Sample ID: MW1A-1106

Collection Date: 11/16/06 4:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-002C

Client Sample ID: MW1B-1106

Collection Date: 11/16/06 4:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-003C

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-004C

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Lab ID: 0611143-005C

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Sample Size: NA

%Moisture:

TestCode BOD405.1

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-006C

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/22/06 14:46

TestCode BOD405.1

Lab ID: 0611143-007C

Client Sample ID: MW5A-1106

Collection Date: 11/16/06 11:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	19		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-008C

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	6.2		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-009C
Project: Kessman	Client Sample ID: SW1-1106
W Order: 0611143	Collection Date: 11/16/06 11:20
Matrix: SURFACE WATER	Date Received: 11/17/06 8:40
Inst. ID: DO Meter	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/22/06 14:46	TestCode: BOD405.1
Col Type:	BatchNo: R7502
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	6.5		5.0	mg/L	1	11/17/06 15:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-010C

Client Sample ID: SW2-1106

Collection Date: 11/16/06 12:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	5.3		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode: BOD405.1

Lab ID: 0611143-011C

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	5.3		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-012C

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	6.8		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: DO Meter

ColumnID:

Revision: 11/22/06 14:46

Col Type:

Sample Size: NA

%Moisture:

TestCode BOD405.1

Lab ID: 0611143-013C

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7502

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	15		5.0	mg/L	1	11/17/06 15:00

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-001C
Project: Kessman	Client Sample ID: MW1A-1106
W Order: 0611143	Collection Date: 11/16/06 4:30
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: IC	Sample Size: NA
ColumnID: IC	%Moisture:
Revision: 11/28/06 15:28	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R7536
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	700		20	mg/L	20	11/27/06 16:01

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-002C

Client Sample ID: MW1B-1106

Collection Date: 11/16/06 4:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	510		20	mg/L	20	11/27/06 16:48

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

Sample Size: NA

ColumnID: IC

%Moisture:

Revision: 11/28/06 15:28

TestCode 300.0W

Lab ID: 0611143-003C

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC						
Chloride	48		5.0	EPA 300.0 mg/L	5	11/27/06 17:03

Qualifiers:

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

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-004C

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	48		5.0	mg/L	5	11/27/06 17:18

Qualifiers:

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

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

Sample Size: NA

ColumnID: IC

%Moisture:

Revision: 11/28/06 15:28

TestCode 300.0W

Lab ID: 0611143-005C

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	1800		100	mg/L	100	11/27/06 17:34

Qualifiers:

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

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



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-006C

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	2300		100	mg/L	100	11/27/06 17:49

Qualifiers:

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

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Kessman
W Order: 0611143
Matrix: GROUNDWATER
Inst. ID: IC **Sample Size:** NA
ColumnID: IC **%Moisture:**
Revision: 11/28/06 15:28 **TestCode** 300.0W
Col Type:

Lab ID: 0611143-007C
Client Sample ID: MW5A-1106
Collection Date: 11/16/06 11:50
Date Received: 11/17/06 8:40
PrepDate:
BatchNo: R7536
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	18		2.0	mg/L	2	11/27/06 18:35

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: IC

Sample Size: NA

ColumnID: IC

%Moisture:

Revision: 11/28/06 15:28

TestCode 300.0W

Lab ID: 0611143-008C

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	51		5.0	mg/L	5	11/27/06 18:51

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: IC

Sample Size: NA

ColumnID: IC

%Moisture:

Revision: 11/28/06 16:42

TestCode: 300.0W

Lab ID: 0611143-009C

Client Sample ID: SW1-1106

Collection Date: 11/16/06 11:20

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	170		10	mg/L	10	11/27/06 14:33

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-010C

Client Sample ID: SW2-1106

Collection Date: 11/16/06 12:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	200		10	mg/L	10	11/27/06 14:49

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-011C

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	190		10	mg/L	10	11/27/06 15:04

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-012C

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	510		20	mg/L	20	11/27/06 19:06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: IC

ColumnID: IC

Revision: 11/28/06 15:28

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0611143-013C

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7536

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	340		20	mg/L	20	11/27/06 15:35

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-001D

Client Sample ID: MWIA-1106

Collection Date: 11/16/06 4:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	ND		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-002D
Project: Kessman	Client Sample ID: MW1B-1106
W Order: 0611143	Collection Date: 11/16/06 4:45
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R7542
Revision: 11/29/06 8:42	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	11		10	mg/L	1	11/28/06

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-003D

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	100		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-004D

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	14		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-005D

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	20		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-006D
Project: Kessman	Client Sample ID: MW3B-1106
W Order: 0611143	Collection Date: 11/16/06 15:10
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: GENESYS 20	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/29/06 8:42	TestCode: COD410.4
Col Type:	PrepDate:
	BatchNo: R7542
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	24		10	mg/L	1	11/28/06

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-007D
Project: Kessman	Client Sample ID: MW5A-1106
W Order: 0611143	Collection Date: 11/16/06 11:50
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R7542
Revision: 11/29/06 8:42	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	86		10	mg/L	1	11/28/06

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-008D

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	600		50	mg/L	5	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-009D

Client Sample ID: SW1-1106

Collection Date: 11/16/06 11:20

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	26		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-010D
Project: Kessman	Client Sample ID: SW2-1106
W Order: 0611143	Collection Date: 11/16/06 12:50
Matrix: SURFACE WATER	Date Received: 11/17/06 8:40
Inst. ID: GENESYS 20	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/29/06 8:42	TestCode: COD410.4
Col Type:	PrepDate:
	BatchNo: R7542
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	49		10	mg/L	1	11/28/06

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-011D

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	34		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0611143-012D

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	34		10	mg/L	1	11/28/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: GENESYS 20

ColumnID:

Revision: 11/29/06 8:42

Col Type:

Lab ID: 0611143-013D

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7542

FileID: 1-SAMP-

Sample Size: NA

%Moisture:

TestCode COD410.4

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	47		10	mg/L	1	11/28/06

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-001C

Client Sample ID: MW1A-1106

Collection Date: 11/16/06 4:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	38		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode TSS160.2

Lab ID: 0611143-002C

Client Sample ID: MW1B-1106

Collection Date: 11/16/06 4:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	8.0		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode: TSS160.2

Lab ID: 0611143-003C

Client Sample ID: MW20A-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	8900		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-004C

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	11		5.0	mg/L	1	11/19/06

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-005C

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	19	5.0		mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-006C

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	9.0		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode TSS160.2

Lab ID: 0611143-007C

Client Sample ID: MW5A-1106

Collection Date: 11/16/06 11:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	190		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode TSS160.2

Lab ID: 0611143-008C

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	71000		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-009C

Client Sample ID: SW1-1106

Collection Date: 11/16/06 11:20

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	40		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode TSS160.2

Col Type:

Lab ID: 0611143-010C

Client Sample ID: SW2-1106

Collection Date: 11/16/06 12:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	15		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-011C

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	22		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: Mettler balance

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/20/06 17:51

TestCode TSS160.2

Lab ID: 0611143-012C

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	41		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: Mettler balance

ColumnID:

Revision: 11/20/06 17:51

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0611143-013C

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7455

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	60		5.0	mg/L	1	11/19/06

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-001E
Project: Kessman	Client Sample ID: MWIA-1106
W Order: 0611143	Collection Date: 11/16/06 4:30
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/28/06 16:27	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R7537A
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	1.3		1.0	mg/L	1	11/23/06 14:52

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-002E
Project: Kessman	Client Sample ID: MW1B-1106
W Order: 0611143	Collection Date: 11/16/06 4:45
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/28/06 16:27	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R7537A
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	1.7		1.0	mg/L	1	11/23/06 15:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0611143-003E
Project: Kessman	Client Sample ID: MW20A-1106
W Order: 0611143	Collection Date: 11/16/06 11:55
Matrix: GROUNDWATER	Date Received: 11/17/06 8:40
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 11/28/06 16:27	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R7537A
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	5.4		1.0	mg/L	1	11/23/06 15:11

Qualifiers:

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-004E

Client Sample ID: MW20B-1106

Collection Date: 11/16/06 12:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	4.8		1.0	mg/L	1	11/23/06 15:22

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-005E

Client Sample ID: MW3A-1106

Collection Date: 11/16/06 15:00

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	1.1		1.0	mg/L	1	11/23/06 15:29

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-006E

Client Sample ID: MW3B-1106

Collection Date: 11/16/06 15:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	2.2		1.0	mg/L	1	11/23/06 15:57

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-007E

Client Sample ID: MW5A-1106

Collection Date: 11/16/06 11:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	10		1.0	mg/L	1	11/23/06 16:21

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:33

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-008E

Client Sample ID: MW5B-1106

Collection Date: 11/16/06 11:55

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7538

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	570		40	mg/L	40	11/25/06 11:18

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.
Project: Kessman
W Order: 0611143
Matrix: SURFACE WATER
Inst. ID: TOC-5000A **Sample Size:** NA
ColumnID: **%Moisture:**
Revision: 11/28/06 16:27 **TestCode** TOC415.1
Col Type:

Lab ID: 0611143-009E
Client Sample ID: SW1-1106
Collection Date: 11/16/06 11:20
Date Received: 11/17/06 8:40
PrepDate:
BatchNo: R7537A
FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.3		1.0	mg/L	1	11/23/06 16:38

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-010E

Client Sample ID: SW2-1106

Collection Date: 11/16/06 12:50

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.6		1.0	mg/L	1	11/23/06 16:46

Qualifiers:

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

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: TOC-5000A

Sample Size: NA

ColumnID:

%Moisture:

Revision: 11/28/06 16:27

TestCode TOC415.1

Lab ID: 0611143-011E

Client Sample ID: SW3-1106

Collection Date: 11/16/06 11:10

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.6		1.0	mg/L	1	11/23/06 16:57

Qualifiers:

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

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: SURFACE WATER

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-012E

Client Sample ID: SW4-1106

Collection Date: 11/16/06 15:45

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	9.2		1.0	mg/L	1	11/23/06 17:05

Qualifiers:

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

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0611143

Matrix: LEACHATE

Inst. ID: TOC-5000A

ColumnID:

Revision: 11/28/06 16:27

Col Type:

Sample Size: NA

%Moisture:

TestCode TOC415.1

Lab ID: 0611143-013E

Client Sample ID: MH-1106

Collection Date: 11/16/06 11:30

Date Received: 11/17/06 8:40

PrepDate:

BatchNo: R7537A

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.3		1.0	mg/L	1	11/23/06 17:13

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

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND
ANALYTICAL SUMMARY

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements						
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #	
MW-1A	0707046-001	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-1B	0707046-002	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-3A	0707046-003	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-3B	0707046-004	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-5A	0707046-005	DUP						ILM04.1	EPA 160.2 405.1
MW-5A	0707046-005	MS	SW8260B					ILM04.1	EPA 415.1 410.4 300.0
MW-5A	0707046-005	MSD	SW8260B						EPA 415.1 410.4 300.0
MW-5A	0707046-005	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-5B	0707046-006	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-20A	0707046-007	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MW-20B	0707046-008	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
MH-1	0707046-009	SAMP	SW8260B					ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-1

**SAMPLE IDENTIFICATION AND
ANALYTICAL SUMMARY**

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements					
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #
SW-1	0707046-010	SAMP	SW8260B				ILM04.1	EPA 415.1 410.4 160.2 405.1 300.0
SW-2	0707046-011	SAMP	SW8260B				ILM04.1	EPA 415.1 410.4 160.2 300.0 405.1
SW-3	0707046-012	SAMP	SW8260B				ILM04.1	EPA 415.1 410.4 160.2 405.1 300.0
Trip Blank	0707046-013	SAMP	SW8260B					



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-001A

Client Sample ID: MW-1A

Collection Date: 07/11/07 12:35

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9592.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 14:12
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 14:12
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 14:12
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 14:12
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 14:12
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 14:12
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 14:12
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 14:12
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 14:12
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 14:12
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 14:12
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 14:12
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:12
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 14:12
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 14:12
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:12
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 14:12
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 14:12
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 14:12
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 14:12
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 14:12
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 14:12
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 14:12
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:12
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 14:12
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 14:12
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 14:12
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 14:12
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 14:12
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 14:12
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:12

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/30/07 14:48

286623

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-001A

Client Sample ID: MW-1A

Collection Date: 07/11/07 12:35

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9592.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 14:12
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 14:12
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 14:12
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 14:12
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 14:12
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
Bromoform	ND		0.50	0.05	µg/L	1	07/13/07 14:12
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 14:12
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:12
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 14:12
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 14:12
Surr: Dibromofluoromethane	116		75-127	0.03	%REC	1	07/13/07 14:12
Surr: 1,2-Dichloroethane-d4	113		75-134	0.04	%REC	1	07/13/07 14:12
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 14:12
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 14:12

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286623

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-002A

Client Sample ID: MW-1B

Collection Date: 07/11/07 12:20

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9593.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 14:45
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 14:45
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 14:45
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 14:45
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 14:45
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 14:45
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 14:45
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 14:45
Acetone	1.58 J		10.0	0.82	µg/L	1	07/13/07 14:45
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 14:45
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 14:45
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 14:45
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:45
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 14:45
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 14:45
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:45
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 14:45
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 14:45
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 14:45
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 14:45
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 14:45
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 14:45
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 14:45
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:45
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 14:45
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 14:45
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 14:45
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 14:45
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 14:45
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 14:45
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 14:45

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286624

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-002A
Project: Kessman	Client Sample ID: MW-1B
W Order: 0707046	Collection Date: 07/11/07 12:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: MS01 11	Sample Size: 10 mL
ColumnID: Rtx-VMS	%Moisture:
Revision: 07/18/07 14:54	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10423
	FileID: 1-SAMP-T9593.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 14:45
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 14:45
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 14:45
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 14:45
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 14:45
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 14:45
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 14:45
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 14:45
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 14:45
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 14:45
Surr: Dibromofluoromethane	119		75-127	0.03	%REC	1	07/13/07 14:45
Surr: 1,2-Dichloroethane-d4	114		75-134	0.04	%REC	1	07/13/07 14:45
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 14:45
Surr: 4-Bromofluorobenzene	101		75-125	0.04	%REC	1	07/13/07 14:45

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

Print Date: 07/30/07 14:48

286624

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-003A

Client Sample ID: MW-3A

Collection Date: 07/11/07 9:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9594.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 15:18
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 15:18
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 15:18
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 15:18
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 15:18
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 15:18
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 15:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 15:18
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 15:18
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 15:18
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 15:18
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 15:18
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:18
Methyl tert-butyl ether	0.19	J	0.50	0.02	µg/L	1	07/13/07 15:18
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 15:18
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:18
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 15:18
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 15:18
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 15:18
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 15:18
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 15:18
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 15:18
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 15:18
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:18
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 15:18
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 15:18
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 15:18
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 15:18
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 15:18
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 15:18
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:18

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/30/07 14:48

286625

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-003A

Client Sample ID: MW-3A

Collection Date: 07/11/07 9:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9594.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 15:18
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 15:18
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 15:18
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 15:18
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 15:18
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 15:18
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 15:18
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:18
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 15:18
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 15:18
Surr: Dibromofluoromethane	119		75-127	0.03	%REC	1	07/13/07 15:18
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	07/13/07 15:18
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 15:18
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 15:18

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

Print Date: 07/30/07 14:48

286625

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-004A

Client Sample ID: MW-3B

Collection Date: 07/11/07 9:15

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9595.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 15:52
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 15:52
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 15:52
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 15:52
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 15:52
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 15:52
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 15:52
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 15:52
Acetone	2.51	J	10.0	0.82	µg/L	1	07/13/07 15:52
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 15:52
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 15:52
Methylene chloride	0.80	J	2.00	0.03	µg/L	1	07/13/07 15:52
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:52
Methyl tert-butyl ether	2.13		0.50	0.02	µg/L	1	07/13/07 15:52
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 15:52
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:52
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 15:52
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 15:52
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 15:52
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 15:52
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 15:52
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 15:52
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 15:52
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:52
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 15:52
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 15:52
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 15:52
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 15:52
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 15:52
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 15:52
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 15:52

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286626

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-004A

Client Sample ID: MW-3B

Collection Date: 07/11/07 9:15

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9595.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 15:52
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 15:52
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 15:52
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 15:52
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 15:52
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
Bromoform	ND		0.50	0.05	µg/L	1	07/13/07 15:52
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 15:52
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
1,4-Dichlorobenzene	0.11	J	0.50	0.02	µg/L	1	07/13/07 15:52
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 15:52
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 15:52
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 15:52
Surr: Dibromofluoromethane	120		75-127	0.03	%REC	1	07/13/07 15:52
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	07/13/07 15:52
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 15:52
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 15:52

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286626

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/23/07 9:23

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-005A

Client Sample ID: MW-5A

Collection Date: 07/11/07 11:50

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10427

FileID: 1-SAMP-T9638.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/17/07 14:04
Chloromethane	ND		1.00	0.13	µg/L	1	07/17/07 14:04
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/17/07 14:04
Bromomethane	ND		1.00	0.06	µg/L	1	07/17/07 14:04
Chloroethane	ND		1.00	0.12	µg/L	1	07/17/07 14:04
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/17/07 14:04
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/17/07 14:04
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/17/07 14:04
Acetone	ND		10.0	0.82	µg/L	1	07/17/07 14:04
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/17/07 14:04
Methyl acetate	ND		0.50	0.30	µg/L	1	07/17/07 14:04
Methylene chloride	ND		2.00	0.03	µg/L	1	07/17/07 14:04
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/17/07 14:04
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/17/07 14:04
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/17/07 14:04
cis-1,2-Dichloroethene	0.21 J		0.50	0.03	µg/L	1	07/17/07 14:04
2-Butanone	ND		10.0	0.65	µg/L	1	07/17/07 14:04
Chloroform	ND		0.50	0.03	µg/L	1	07/17/07 14:04
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/17/07 14:04
Cyclohexane	0.16 J		0.50	0.06	µg/L	1	07/17/07 14:04
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/17/07 14:04
Benzene	1.02		0.50	0.01	µg/L	1	07/17/07 14:04
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/17/07 14:04
Trichloroethene	ND		0.50	0.03	µg/L	1	07/17/07 14:04
Methylcyclohexane	0.10 J		0.50	0.03	µg/L	1	07/17/07 14:04
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/17/07 14:04
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/17/07 14:04
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/17/07 14:04
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/17/07 14:04
Toluene	ND		0.50	0.02	µg/L	1	07/17/07 14:04
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/17/07 14:04
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/17/07 14:04
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/17/07 14:04

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/30/07 14:48

286742

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/23/07 9:23

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-005A

Client Sample ID: MW-5A

Collection Date: 07/11/07 11:50

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10427

FileID: 1-SAMP-T9638.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/17/07 14:04
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/17/07 14:04
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/17/07 14:04
Chlorobenzene	6.32		0.50	0.01	µg/L	1	07/17/07 14:04
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/17/07 14:04
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/17/07 14:04
Styrene	ND		0.50	0.02	µg/L	1	07/17/07 14:04
Bromofom	ND		0.50	0.05	µg/L	1	07/17/07 14:04
Isopropylbenzene	0.25	J	0.50	0.02	µg/L	1	07/17/07 14:04
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/17/07 14:04
1,3-Dichlorobenzene	0.39	J	0.50	0.02	µg/L	1	07/17/07 14:04
1,4-Dichlorobenzene	2.11		0.50	0.02	µg/L	1	07/17/07 14:04
1,2-Dichlorobenzene	1.49		0.50	0.02	µg/L	1	07/17/07 14:04
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/17/07 14:04
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/17/07 14:04
Surr: Dibromofluoromethane	107		75-127	0.03	%REC	1	07/17/07 14:04
Surr: 1,2-Dichloroethane-d4	104		75-134	0.04	%REC	1	07/17/07 14:04
Surr: Toluene-d8	108		75-125	0.01	%REC	1	07/17/07 14:04
Surr: 4-Bromofluorobenzene	102		75-125	0.04	%REC	1	07/17/07 14:04

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286742

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-006A

Client Sample ID: MW-5B

Collection Date: 07/11/07 11:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9603.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 20:17
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 20:17
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 20:17
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 20:17
Chloroethane	0.79	J	1.00	0.12	µg/L	1	07/13/07 20:17
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 20:17
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 20:17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 20:17
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 20:17
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 20:17
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 20:17
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 20:17
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 20:17
Methyl tert-butyl ether	0.13	J	0.50	0.02	µg/L	1	07/13/07 20:17
1,1-Dichloroethane	0.45	J	0.50	0.03	µg/L	1	07/13/07 20:17
cis-1,2-Dichloroethene	0.50		0.50	0.03	µg/L	1	07/13/07 20:17
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 20:17
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 20:17
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 20:17
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 20:17
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 20:17
Benzene	0.89		0.50	0.01	µg/L	1	07/13/07 20:17
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 20:17
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 20:17
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 20:17
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 20:17
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 20:17
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 20:17
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 20:17
Toluene	0.49	J	0.50	0.02	µg/L	1	07/13/07 20:17
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 20:17
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 20:17
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 20:17

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286634

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

Sample Size: 10 mL

ColumnID: Rtx-VMS

%Moisture:

Revision: 08/03/07 12:21

TestCode: 8260W OLM42

Lab ID: 0707046-006A

Client Sample ID: MW-5B

Collection Date: 07/11/07 11:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9603.D

Col Type:

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 20:17
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 20:17
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 20:17
Chlorobenzene	3.22		0.50	0.01	µg/L	1	07/13/07 20:17
Ethylbenzene	0.10	J	0.50	0.02	µg/L	1	07/13/07 20:17
Xylenes (total)	0.41	J	1.00	0.04	µg/L	1	07/13/07 20:17
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 20:17
Bromoforn	ND		0.50	0.05	µg/L	1	07/13/07 20:17
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 20:17
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 20:17
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 20:17
1,4-Dichlorobenzene	0.45	J	0.50	0.02	µg/L	1	07/13/07 20:17
1,2-Dichlorobenzene	0.28	J	0.50	0.02	µg/L	1	07/13/07 20:17
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 20:17
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 20:17
Surr: Dibromofluoromethane	120		75-127	0.03	%REC	1	07/13/07 20:17
Surr: 1,2-Dichloroethane-d4	118		75-134	0.04	%REC	1	07/13/07 20:17
Surr: Toluene-d8	109		75-125	0.01	%REC	1	07/13/07 20:17
Surr: 4-Bromofluorobenzene	106		75-125	0.04	%REC	1	07/13/07 20:17

Qualifiers:

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

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

Print Date: 08/03/07 12:31

286634

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-007A

Client Sample ID: MW-20A

Collection Date: 07/11/07 9:40

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9596.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 16:25
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 16:25
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 16:25
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 16:25
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 16:25
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 16:25
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 16:25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 16:25
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 16:25
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 16:25
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 16:25
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 16:25
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:25
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 16:25
1,1-Dichloroethane	1.31		0.50	0.03	µg/L	1	07/13/07 16:25
cis-1,2-Dichloroethene	0.27	J	0.50	0.03	µg/L	1	07/13/07 16:25
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 16:25
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 16:25
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 16:25
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 16:25
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 16:25
Benzene	0.48	J	0.50	0.01	µg/L	1	07/13/07 16:25
1,2-Dichloroethane	1.80		0.50	0.02	µg/L	1	07/13/07 16:25
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:25
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 16:25
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 16:25
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 16:25
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 16:25
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 16:25
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 16:25
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:25

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286627

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-007A

Client Sample ID: MW-20A

Collection Date: 07/11/07 9:40

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9596.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 16:25
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 16:25
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 16:25
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 16:25
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 16:25
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 16:25
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 16:25
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:25
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 16:25
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 16:25
Surr: Dibromofluoromethane	115		75-127	0.03	%REC	1	07/13/07 16:25
Surr: 1,2-Dichloroethane-d4	114		75-134	0.04	%REC	1	07/13/07 16:25
Surr: Toluene-d8	109		75-125	0.01	%REC	1	07/13/07 16:25
Surr: 4-Bromofluorobenzene	102		75-125	0.04	%REC	1	07/13/07 16:25

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

Print Date: 07/30/07 14:48

286627

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-008A

Client Sample ID: MW-20B

Collection Date: 07/11/07 10:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9597.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 16:58
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 16:58
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 16:58
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 16:58
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 16:58
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 16:58
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 16:58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 16:58
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 16:58
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 16:58
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 16:58
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 16:58
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:58
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 16:58
1,1-Dichloroethane	1.52		0.50	0.03	µg/L	1	07/13/07 16:58
cis-1,2-Dichloroethene	0.33	J	0.50	0.03	µg/L	1	07/13/07 16:58
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 16:58
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 16:58
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 16:58
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 16:58
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 16:58
Benzene	0.49	J	0.50	0.01	µg/L	1	07/13/07 16:58
1,2-Dichloroethane	1.87		0.50	0.02	µg/L	1	07/13/07 16:58
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:58
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 16:58
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 16:58
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 16:58
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 16:58
Toluene	0.11	J	0.50	0.02	µg/L	1	07/13/07 16:58
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 16:58
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 16:58
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 16:58

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286628

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-008A

Client Sample ID: MW-20B

Collection Date: 07/11/07 10:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9597.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 16:58
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 16:58
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 16:58
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 16:58
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 16:58
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 16:58
Isopropylbenzene	1.57		0.50	0.02	µg/L	1	07/13/07 16:58
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 16:58
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 16:58
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 16:58
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 16:58
Surr: Dibromofluoromethane	117		75-127	0.03	%REC	1	07/13/07 16:58
Surr: 1,2-Dichloroethane-d4	115		75-134	0.04	%REC	1	07/13/07 16:58
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 16:58
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 16:58

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286628

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-009A

Client Sample ID: MH-1

Collection Date: 07/11/07 9:25

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9598.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 17:31
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 17:31
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 17:31
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 17:31
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 17:31
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 17:31
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 17:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 17:31
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 17:31
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 17:31
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 17:31
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 17:31
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 17:31
Methyl tert-butyl ether	0.21	J	0.50	0.02	µg/L	1	07/13/07 17:31
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 17:31
cis-1,2-Dichloroethene	0.11	J	0.50	0.03	µg/L	1	07/13/07 17:31
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 17:31
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 17:31
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 17:31
Cyclohexane	0.45	J	0.50	0.06	µg/L	1	07/13/07 17:31
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 17:31
Benzene	3.54		0.50	0.01	µg/L	1	07/13/07 17:31
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 17:31
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 17:31
Methylcyclohexane	0.49	J	0.50	0.03	µg/L	1	07/13/07 17:31
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 17:31
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 17:31
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 17:31
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 17:31
Toluene	0.12	J	0.50	0.02	µg/L	1	07/13/07 17:31
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 17:31
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 17:31
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 17:31

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

Print Date: 07/30/07 14:48

286629

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-009A

Client Sample ID: MH-1

Collection Date: 07/11/07 9:25

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9598.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 17:31
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 17:31
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 17:31
Chlorobenzene	14.1		0.50	0.01	µg/L	1	07/13/07 17:31
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 17:31
Xylenes (total)	0.56	J	1.00	0.04	µg/L	1	07/13/07 17:31
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 17:31
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 17:31
Isopropylbenzene	2.20		0.50	0.02	µg/L	1	07/13/07 17:31
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 17:31
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 17:31
1,4-Dichlorobenzene	3.07		0.50	0.02	µg/L	1	07/13/07 17:31
1,2-Dichlorobenzene	0.31	J	0.50	0.02	µg/L	1	07/13/07 17:31
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 17:31
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 17:31
Surr: Dibromofluoromethane	118		75-127	0.03	%REC	1	07/13/07 17:31
Surr: 1,2-Dichloroethane-d4	118		75-134	0.04	%REC	1	07/13/07 17:31
Surr: Toluene-d8	113		75-125	0.01	%REC	1	07/13/07 17:31
Surr: 4-Bromofluorobenzene	107		75-125	0.04	%REC	1	07/13/07 17:31

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286629

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-010A

Client Sample ID: SW-1

Collection Date: 07/11/07 11:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9599.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 18:04
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 18:04
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 18:04
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 18:04
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 18:04
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 18:04
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 18:04
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 18:04
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 18:04
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 18:04
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 18:04
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 18:04
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:04
Methyl tert-butyl ether	0.11	J	0.50	0.02	µg/L	1	07/13/07 18:04
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 18:04
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:04
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 18:04
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 18:04
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 18:04
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 18:04
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 18:04
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 18:04
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 18:04
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:04
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 18:04
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 18:04
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 18:04
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 18:04
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 18:04
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 18:04
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:04

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286630

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-010A

Client Sample ID: SW-1

Collection Date: 07/11/07 11:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9599.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 18:04
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 18:04
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 18:04
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 18:04
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 18:04
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 18:04
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 18:04
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:04
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 18:04
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 18:04
Surr: Dibromofluoromethane	116		75-127	0.03	%REC	1	07/13/07 18:04
Surr: 1,2-Dichloroethane-d4	114		75-134	0.04	%REC	1	07/13/07 18:04
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 18:04
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 18:04

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

Print Date: 07/30/07 14:48

286630

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-011A

Client Sample ID: SW-2

Collection Date: 07/11/07 11:20

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9600.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 18:37
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 18:37
Vinyl chloride	20.5		1.00	0.04	µg/L	1	07/13/07 18:37
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 18:37
Chloroethane	0.89	J	1.00	0.12	µg/L	1	07/13/07 18:37
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 18:37
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 18:37
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 18:37
Acetone	5.37	J	10.0	0.82	µg/L	1	07/13/07 18:37
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 18:37
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 18:37
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 18:37
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:37
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 18:37
1,1-Dichloroethane	0.12	J	0.50	0.03	µg/L	1	07/13/07 18:37
cis-1,2-Dichloroethene	18.5		0.50	0.03	µg/L	1	07/13/07 18:37
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 18:37
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 18:37
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 18:37
Cyclohexane	0.24	J	0.50	0.06	µg/L	1	07/13/07 18:37
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 18:37
Benzene	2.33		0.50	0.01	µg/L	1	07/13/07 18:37
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 18:37
Trichloroethene	0.28	J	0.50	0.03	µg/L	1	07/13/07 18:37
Methylcyclohexane	0.75		0.50	0.03	µg/L	1	07/13/07 18:37
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 18:37
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 18:37
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 18:37
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 18:37
Toluene	3.11		0.50	0.02	µg/L	1	07/13/07 18:37
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 18:37
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 18:37
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 18:37

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

Print Date: 07/30/07 14:48

286631

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-011A

Client Sample ID: SW-2

Collection Date: 07/11/07 11:20

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9600.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						SW8260B	
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 18:37
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 18:37
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 18:37
Chlorobenzene	3.26		0.50	0.01	µg/L	1	07/13/07 18:37
Ethylbenzene	0.13	J	0.50	0.02	µg/L	1	07/13/07 18:37
Xylenes (total)	1.08		1.00	0.04	µg/L	1	07/13/07 18:37
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 18:37
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 18:37
Isopropylbenzene	0.91		0.50	0.02	µg/L	1	07/13/07 18:37
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 18:37
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 18:37
1,4-Dichlorobenzene	0.73		0.50	0.02	µg/L	1	07/13/07 18:37
1,2-Dichlorobenzene	0.14	J	0.50	0.02	µg/L	1	07/13/07 18:37
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 18:37
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 18:37
Surr: Dibromofluoromethane	118		75-127	0.03	%REC	1	07/13/07 18:37
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	07/13/07 18:37
Surr: Toluene-d8	110		75-125	0.01	%REC	1	07/13/07 18:37
Surr: 4-Bromofluorobenzene	103		75-125	0.04	%REC	1	07/13/07 18:37

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

Print Date: 07/30/07 14:48

286631

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-012A

Client Sample ID: SW-3

Collection Date: 07/11/07 9:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9601.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 19:11
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 19:11
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 19:11
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 19:11
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 19:11
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 19:11
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 19:11
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 19:11
Acetone	6.59 J		10.0	0.82	µg/L	1	07/13/07 19:11
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 19:11
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 19:11
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 19:11
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:11
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 19:11
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 19:11
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:11
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 19:11
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 19:11
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 19:11
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 19:11
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 19:11
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 19:11
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 19:11
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:11
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 19:11
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 19:11
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 19:11
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 19:11
Toluene	9.11		0.50	0.02	µg/L	1	07/13/07 19:11
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 19:11
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 19:11
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:11

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

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

Print Date: 07/30/07 14:48

286632

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-012A

Client Sample ID: SW-3

Collection Date: 07/11/07 9:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9601.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 19:11
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 19:11
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 19:11
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 19:11
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 19:11
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
Bromofom	ND		0.50	0.05	µg/L	1	07/13/07 19:11
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 19:11
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
1,4-Dichlorobenzene	0.11	J	0.50	0.02	µg/L	1	07/13/07 19:11
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:11
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 19:11
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 19:11
Surr: Dibromofluoromethane	118		75-127	0.03	%REC	1	07/13/07 19:11
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	07/13/07 19:11
Surr: Toluene-d8	115		75-125	0.01	%REC	1	07/13/07 19:11
Surr: 4-Bromofluorobenzene	104		75-125	0.04	%REC	1	07/13/07 19:11

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286632

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-013A

Client Sample ID: Trip Blank

Collection Date: 07/11/07 9:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9602.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	07/13/07 19:43
Chloromethane	ND		1.00	0.13	µg/L	1	07/13/07 19:43
Vinyl chloride	ND		1.00	0.04	µg/L	1	07/13/07 19:43
Bromomethane	ND		1.00	0.06	µg/L	1	07/13/07 19:43
Chloroethane	ND		1.00	0.12	µg/L	1	07/13/07 19:43
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	07/13/07 19:43
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	07/13/07 19:43
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	07/13/07 19:43
Acetone	ND		10.0	0.82	µg/L	1	07/13/07 19:43
Carbon disulfide	ND		0.50	0.02	µg/L	1	07/13/07 19:43
Methyl acetate	ND		0.50	0.30	µg/L	1	07/13/07 19:43
Methylene chloride	ND		2.00	0.03	µg/L	1	07/13/07 19:43
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:43
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	07/13/07 19:43
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 19:43
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:43
2-Butanone	ND		10.0	0.65	µg/L	1	07/13/07 19:43
Chloroform	ND		0.50	0.03	µg/L	1	07/13/07 19:43
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 19:43
Cyclohexane	ND		0.50	0.06	µg/L	1	07/13/07 19:43
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	07/13/07 19:43
Benzene	ND		0.50	0.01	µg/L	1	07/13/07 19:43
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	07/13/07 19:43
Trichloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:43
Methylcyclohexane	ND		0.50	0.03	µg/L	1	07/13/07 19:43
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	07/13/07 19:43
Bromodichloromethane	ND		0.50	0.03	µg/L	1	07/13/07 19:43
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	07/13/07 19:43
Toluene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	07/13/07 19:43
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	07/13/07 19:43
Tetrachloroethene	ND		0.50	0.03	µg/L	1	07/13/07 19:43

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286633

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: WATER Q

Inst. ID: MS01 11

ColumnID: Rtx-VMS

Revision: 07/18/07 14:54

Col Type:

Sample Size: 10 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0707046-013A

Client Sample ID: Trip Blank

Collection Date: 07/11/07 9:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10423

FileID: 1-SAMP-T9602.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	07/13/07 19:43
Dibromochloromethane	ND		0.50	0.04	µg/L	1	07/13/07 19:43
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	07/13/07 19:43
Chlorobenzene	ND		0.50	0.01	µg/L	1	07/13/07 19:43
Ethylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
Xylenes (total)	ND		1.00	0.04	µg/L	1	07/13/07 19:43
Styrene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
Bromoform	ND		0.50	0.05	µg/L	1	07/13/07 19:43
Isopropylbenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	07/13/07 19:43
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
1,4-Dichlorobenzene	0.16	J	0.50	0.02	µg/L	1	07/13/07 19:43
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	07/13/07 19:43
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	07/13/07 19:43
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	07/13/07 19:43
Surr: Dibromofluoromethane	119		75-127	0.03	%REC	1	07/13/07 19:43
Surr: 1,2-Dichloroethane-d4	116		75-134	0.04	%REC	1	07/13/07 19:43
Surr: Toluene-d8	112		75-125	0.01	%REC	1	07/13/07 19:43
Surr: 4-Bromofluorobenzene	101		75-125	0.04	%REC	1	07/13/07 19:43

Qualifiers:

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

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

Print Date: 07/30/07 14:48

286633

Project Supervisor: Thomas A. Alexander

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Life Science Laboratories, Inc Contract:
Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046
SOW No.: ILM04.1

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include MH-1, MW-1A through MW-5B, and SW-1 through SW-3.

Were ICP interelement corrections applied? Yes/No
Were ICP background corrections applied? If yes-were raw data generated before application of background corrections? Yes/No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above.

Signature: [Handwritten Signature] Name: Thomas A. Alexander
Date: 8.15.07 Title: Project Manager

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-1A

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-001

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.9	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	85.7	B		P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	3.1	B		P
7440-70-2	Calcium	181000			P
7440-47-3	Chromium	5.0	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	0.66	U		P
7439-89-6	Iron	61.4	B		P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	79000			P
7439-96-5	Manganese	1.8	B		P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	1.5	B		P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	125000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	9.1	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-1B

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-002

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2700			P
7440-36-0	Antimony	4.0	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	119	B		P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	1.7	B		P
7440-70-2	Calcium	45700			P
7440-47-3	Chromium	7.7	B		P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	11.1	B		P
7439-89-6	Iron	10600			P
7439-92-1	Lead	2.1	B		P
7439-95-4	Magnesium	37200			P
7439-96-5	Manganese	116			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	7.1	B		P
7440-09-7	Potassium	6430			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	317000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc	23.0			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-3A

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-003

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	99.7	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	469			P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	3.8	B		P
7440-70-2	Calcium	285000			P
7440-47-3	Chromium	2.6	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	2870			P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	181000			P
7439-96-5	Manganese	756			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	42300			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	723000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	20.4			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-3B

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-004

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1320			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	810			P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	3.4	B		P
7440-70-2	Calcium	344000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	8.8	B		P
7439-89-6	Iron	11400			P
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium	304000			P
7439-96-5	Manganese	351			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	43800			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1650000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	35.4			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-5A

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-005

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	140	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	8.2	B		P
7440-39-3	Barium	132	B		P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	4.5	B		P
7440-70-2	Calcium	87700			P
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	10200			P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	82400			P
7439-96-5	Manganese	114			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	4.3	B		P
7440-09-7	Potassium	11000			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	24000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	14.0	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-5B

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLE Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-006

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5570			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	3.2	B		P
7440-39-3	Barium	121	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	154000			P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	9.6	B		P
7439-89-6	Iron	12600			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	77600			P
7439-96-5	Manganese	893			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	12.7	B		P
7440-09-7	Potassium	13800			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	57800			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	8.2	B		P
7440-66-6	Zinc	31.6			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-20A

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-007

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32600			P
7440-36-0	Antimony	2.5	B		P
7440-38-2	Arsenic	9.8	B		P
7440-39-3	Barium	226			P
7440-41-7	Beryllium	0.95	B		P
7440-43-9	Cadmium	0.77	B		P
7440-70-2	Calcium	124000			P
7440-47-3	Chromium	47.3			P
7440-48-4	Cobalt	21.6	B		P
7440-50-8	Copper	45.6			P
7439-89-6	Iron	58900			P
7439-92-1	Lead	16.7			P
7439-95-4	Magnesium	115000			P
7439-96-5	Manganese	1160			P
7439-97-6	Mercury	0.012	B		AV
7440-02-0	Nickel	48.4			P
7440-09-7	Potassium	24000			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	24400			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	49.8	B		P
7440-66-6	Zinc	140			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW-20B

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-008

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.0	B		P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.5	B		P
7440-39-3	Barium	64.0	B		P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	1.9	B		P
7440-70-2	Calcium	59300			P
7440-47-3	Chromium	6.0	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	2540			P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	67100			P
7439-96-5	Manganese	18.2			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	14700			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	24100			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	9.1	B		P

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MH-1

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-009

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10.7	U		P
7440-36-0	Antimony	2.1	B		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	462			P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	130000			P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	0.66	U		P
7439-89-6	Iron	66200			P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	42300			P
7439-96-5	Manganese	571			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	11900			P
7782-49-2	Selenium	2.4	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	358000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	10.9	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW-1

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-010

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4950			P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	28.0			P
7440-39-3	Barium	309			P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	97600			P
7440-47-3	Chromium	10.4			P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	32.3			P
7439-89-6	Iron	98500			P
7439-92-1	Lead	24.5			P
7439-95-4	Magnesium	35600			P
7439-96-5	Manganese	2730			P
7439-97-6	Mercury	0.064	B		AV
7440-02-0	Nickel	12.2	B		P
7440-09-7	Potassium	2180	B		P
7782-49-2	Selenium	5.6			P
7440-22-4	Silver	2.5	B		P
7440-23-5	Sodium	1020000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	14.0	B		P
7440-66-6	Zinc	223			P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW-2

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-011

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	235			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	667			P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	1.5	B		P
7439-89-6	Iron	38400			P
7439-92-1	Lead	0.90	U		P
7439-95-4	Magnesium	42200			P
7439-96-5	Manganese	631			P
7439-97-6	Mercury	0.0061	U		AV
7440-02-0	Nickel	4.7	B		P
7440-09-7	Potassium	12000			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	136000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	0.78	U		P
7440-66-6	Zinc	9.8	B		P

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SW-3

Lab Name: Life Science Laboratories, Inc Contract:

Lab Code: LSLB Case No. SAS No.: SDG No.: 0707046

Matrix (soil/water): WATER Lab Sample ID: 0707046-012

Level (low/med): LOW Date Received: 7/12/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3100			P
7440-36-0	Antimony	1.8	U		P
7440-38-2	Arsenic	4.5	B		P
7440-39-3	Barium	447			P
7440-41-7	Beryllium	0.046	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	82500			P
7440-47-3	Chromium	4.4	B		P
7440-48-4	Cobalt	1.5	U		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	19400			P
7439-92-1	Lead	5.8			P
7439-95-4	Magnesium	30800			P
7439-96-5	Manganese	925			P
7439-97-6	Mercury	0.010	B		AV
7440-02-0	Nickel	5.7	B		P
7440-09-7	Potassium	10700			P
7782-49-2	Selenium	2.2	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	593000			P
7440-28-0	Thallium	3.6	U		P
7440-62-2	Vanadium	4.2	B		P
7440-66-6	Zinc	42.5			P

Comments:



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-001E
Project: Kessman	Client Sample ID: MW-1A
W Order: 0707046	Collection Date: 07/11/07 12:35
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	07/12/07 13:32

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-002E
Project: Kessman	Client Sample ID: MW-1B
W Order: 0707046	Collection Date: 07/11/07 12:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	6.7		5.0	mg/L	1	07/12/07 13:33

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-003E
Project: Kessman	Client Sample ID: MW-3A
W Order: 0707046	Collection Date: 07/11/07 9:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	07/12/07 13:34

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-004E
Project: Kessman	Client Sample ID: MW-3B
W Order: 0707046	Collection Date: 07/11/07 9:15
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	07/12/07 13:36

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-005E
Project: Kessman	Client Sample ID: MW-54
W Order: 0707046	Collection Date: 07/11/07 11:50
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	9.5		5.0	mg/L	1	07/12/07 13:38

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-006E
Project: Kessman	Client Sample ID: MW-5B
W Order: 0707046	Collection Date: 07/11/07 11:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	5.4		5.0	mg/L	1	07/12/07 13:41

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-007E
Project: Kessman	Client Sample ID: MW-20A
W Order: 0707046	Collection Date: 07/11/07 9:40
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	5.8		5.0	mg/L	1	07/12/07 13:44

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-008E
Project: Kessman	Client Sample ID: MW-20B
W Order: 0707046	Collection Date: 07/11/07 10:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	07/12/07 13:46

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-009E
Project: Kessman	Client Sample ID: MH-1
W Order: 0707046	Collection Date: 07/11/07 9:25
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	12		5.0	mg/L	1	07/12/07 13:48

Qualifiers:

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-010E
Project: Kessman	Client Sample ID: SW-1
W Order: 0707046	Collection Date: 07/11/07 11:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	15		5.0	mg/L	1	07/12/07 13:50

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-011E
Project: Kessman	Client Sample ID: SW-2
W Order: 0707046	Collection Date: 07/11/07 11:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	ND		5.0	mg/L	1	07/12/07 13:51

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-012E
Project: Kessman	Client Sample ID: SW-3
W Order: 0707046	Collection Date: 07/11/07 9:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DO Meter	PrepDate:
ColumnID:	BatchNo: R10313
Revision: 07/17/07 11:14	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
BOD, 5 DAY				EPA 405.1		
Biochemical Oxygen Demand	41		5.0	mg/L	1	07/12/07 13:53

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-001E
Project: Kessman	Client Sample ID: MW-1A
W Order: 0707046	Collection Date: 07/11/07 12:35
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	570		20	mg/L	20	07/16/07 13:40

Qualifiers:

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



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-002E
Project: Kessman	Client Sample ID: MW-1B
W Order: 0707046	Collection Date: 07/11/07 12:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	590		20	mg/L	20	07/16/07 13:55

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-003E
Project: Kessman	Client Sample ID: MW-3A
W Order: 0707046	Collection Date: 07/11/07 9:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC						
Chloride	2100		100	EPA 300.0 mg/L	100	07/16/07 14:10

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-004E
Project: Kessman	Client Sample ID: MW-3B
W Order: 0707046	Collection Date: 07/11/07 9:15
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	4000		200	mg/L	200	07/16/07 18:08

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-005E
Project: Kessman	Client Sample ID: MW-5A
W Order: 0707046	Collection Date: 07/11/07 11:50
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC						
Chloride	15		2.0	EPA 300.0 mg/L	2	07/16/07 14:40

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID:

Revision: 07/17/07 10:50

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0707046-006E

Client Sample ID: MW-5B

Collection Date: 07/11/07 11:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10387

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	47		10	mg/L	10	07/16/07 15:24

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID:

Revision: 07/17/07 10:50

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0707046-007E

Client Sample ID: MW-20A

Collection Date: 07/11/07 9:40

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10387

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	45		5.0	mg/L	5	07/16/07 16:09

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-008E
Project: Kessman	Client Sample ID: MW-20B
W Order: 0707046	Collection Date: 07/11/07 10:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC						
Chloride	44		5.0	EPA 300.0 mg/L	5	07/16/07 16:24

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: IC

ColumnID:

Revision: 07/17/07 10:50

Col Type:

Sample Size: NA

%Moisture:

TestCode 300.0W

Lab ID: 0707046-009E

Client Sample ID: MH-1

Collection Date: 07/11/07 9:25

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10387

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	800		20	mg/L	20	07/16/07 16:39

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-010E
Project: Kessman	Client Sample ID: SW-1
W Order: 0707046	Collection Date: 07/11/07 11:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	PrepDate:
ColumnID:	BatchNo: R10420
Revision: 07/18/07 11:59	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	1600		100	mg/L	100	07/17/07 14:13

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-011E
Project: Kessman	Client Sample ID: SW-2
W Order: 0707046	Collection Date: 07/11/07 11:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/17/07 10:50	TestCode: 300.0W
Col Type:	PrepDate:
	BatchNo: R10387
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	270		10	mg/L	10	07/16/07 17:09

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-012E
Project: Kessman	Client Sample ID: SW-3
W Order: 0707046	Collection Date: 07/11/07 9:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: IC	PrepDate:
ColumnID:	BatchNo: R10420
Revision: 07/18/07 11:59	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
INORGANIC ANIONS BY IC				EPA 300.0		
Chloride	970	50		mg/L	50	07/17/07 14:27

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 07/16/07 13:41

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0707046-001D

Client Sample ID: MW-1A

Collection Date: 07/11/07 12:35

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10367

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	11		10	mg/L	1	07/16/07 13:10

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID: 07/16/07 13:41

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0707046-002D

Client Sample ID: MW-1E

Collection Date: 07/11/07 12:20

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10367

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD Chemical Oxygen Demand	94	10		EPA 410.4 mg/L	1	07/16/07 13:11

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-003D
Project: Kessman	Client Sample ID: MW-3A
W Order: 0707046	Collection Date: 07/11/07 9:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD Chemical Oxygen Demand	33		10	EPA 410.4 mg/L	1	07/16/07 13:13

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-004D
Project: Kessman	Client Sample ID: MW-3B
W Order: 0707046	Collection Date: 07/11/07 9:15
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	35		10	mg/L	1	07/16/07 13:15

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 07/16/07 13:41

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0707046-005D

Client Sample ID: MW-5A

Collection Date: 07/11/07 11:50

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10367

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	24		10	mg/L	1	07/16/07 13:18

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-006D
Project: Kessman	Client Sample ID: MW-5B
W Order: 0707046	Collection Date: 07/11/07 11:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	220		20	mg/L	2	07/16/07 13:21

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-007D
Project: Kessman	Client Sample ID: MW-20A
W Order: 0707046	Collection Date: 07/11/07 9:40
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	42	10		mg/L	1	07/16/07 13:22

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 07/16/07 13:41

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0707046-008D

Client Sample ID: MW-20B

Collection Date: 07/11/07 10:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10367

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	13		10	mg/L	1	07/16/07 13:22

Qualifiers:

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

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

Print Date: 08/01/07 9:34

285458

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-009D
Project: Kessman	Client Sample ID: MH-1
W Order: 0707046	Collection Date: 07/11/07 9:25
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	92		10	mg/L	1	07/16/07 13:23

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: GENESYS 20

ColumnID:

Revision: 07/16/07 13:41

Col Type:

Sample Size: NA

%Moisture:

TestCode COD410.4

Lab ID: 0707046-010D

Client Sample ID: SW-1

Collection Date: 07/11/07 11:00

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10367

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	230		20	mg/L	2	07/16/07 13:24

Qualifiers:

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

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-011D
Project: Kessman	Client Sample ID: SW-2
W Order: 0707046	Collection Date: 07/11/07 11:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	33		10	mg/L	1	07/16/07 13:25

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-012D
Project: Kessman	Client Sample ID: SW-3
W Order: 0707046	Collection Date: 07/11/07 9:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: GENESYS 20	PrepDate:
ColumnID:	BatchNo: R10367
Revision: 07/16/07 13:41	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
COD				EPA 410.4		
Chemical Oxygen Demand	72		10	mg/L	1	07/16/07 13:26

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: TOC-5000A

Sample Size: NA

ColumnID:

%Moisture:

Revision: 07/18/07 8:40

TestCode TOC415.1

Lab ID: 0707046-001B

Client Sample ID: MW-1A

Collection Date: 07/11/07 12:35

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10410

FileID: 1-SAMP-

Col Type:

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	2.3		1.0	mg/L	1	07/17/07 16:43

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-002B
Project: Kessman	Client Sample ID: MW-1B
W Order: 0707046	Collection Date: 07/11/07 12:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/20/07 8:11	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10447
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	43		4.0	mg/L	4	07/19/07 13:23

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-003B
Project: Kessman	Client Sample ID: MW-3A
W Order: 0707046	Collection Date: 07/11/07 9:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	2.1		1.0	mg/L	1	07/17/07 16:58

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-004B
Project: Kessman	Client Sample ID: MW-3B
W Order: 0707046	Collection Date: 07/11/07 9:15
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	4.3		1.0	mg/L	1	07/17/07 17:04

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-005B
Project: Kessman	Client Sample ID: MW-5A
W Order: 0707046	Collection Date: 07/11/07 11:50
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.7		1.0	mg/L	1	07/17/07 17:11

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-006B
Project: Kessman	Client Sample ID: MW-5B
W Order: 0707046	Collection Date: 07/11/07 11:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	PrepDate:
ColumnID:	BatchNo: R10447
Revision: 07/20/07 8:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	37		3.0	mg/L	3	07/19/07 13:30

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-007B
Project: Kessman	Client Sample ID: MW-20A
W Order: 0707046	Collection Date: 07/11/07 9:40
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	PrepDate:
ColumnID:	BatchNo: R10410
Revision: 07/18/07 8:40	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	6.5		1.0	mg/L	1	07/17/07 17:42

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-008B
Project: Kessman	Client Sample ID: MW-20B
W Order: 0707046	Collection Date: 07/11/07 10:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	5.0		1.0	mg/L	1	07/17/07 18:03

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-009B
Project: Kessman	Client Sample ID: MH-1
W Order: 0707046	Collection Date: 07/11/07 9:25
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: I-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	8.6		1.0	mg/L	1	07/17/07 18:10

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-010B
Project: Kessman	Client Sample ID: SW-1
W Order: 0707046	Collection Date: 07/11/07 11:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/18/07 8:40	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10410
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	15		1.0	mg/L	1	07/17/07 18:17

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-011B
Project: Kessman	Client Sample ID: SW-2
W Order: 0707046	Collection Date: 07/11/07 11:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	PrepDate:
ColumnID:	BatchNo: R10410
Revision: 07/18/07 8:40	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	10		1.0	mg/L	1	07/17/07 18:26

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-012B
Project: Kessman	Client Sample ID: SW-3
W Order: 0707046	Collection Date: 07/11/07 9:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: TOC-5000A	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/20/07 8:11	TestCode: TOC415.1
Col Type:	PrepDate:
	BatchNo: R10447
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON				EPA 415.1		
Total Organic Carbon	22		2.0	mg/L	2	07/19/07 13:38

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-001E
Project: Kessman	Client Sample ID: MW-1A
W Order: 0707046	Collection Date: 07/11/07 12:35
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/13/07 16:11	TestCode: TSS160.2
Col Type:	BatchNo: R10324
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	9.0	5.0		mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-002E
Project: Kessman	Client Sample ID: MW-1B
W Order: 0707046	Collection Date: 07/11/07 12:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	250	5.0		mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-003E
Project: Kessman	Client Sample ID: MW-3A
W Order: 0707046	Collection Date: 07/11/07 9:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/13/07 16:11	TestCode: TSS160.2
Col Type:	PrepDate:
	BatchNo: R10324
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	12		5.0	mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-004E
Project: Kessman	Client Sample ID: MW-3B
W Order: 0707046	Collection Date: 07/11/07 9:15
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	79		5.0	mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-005E
Project: Kessman	Client Sample ID: MW-5A
W Order: 0707046	Collection Date: 07/11/07 11:50
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/13/07 16:11	TestCode: TSS160.2
Col Type:	PrepDate:
	BatchNo: R10324
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	26	5.0		mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-006E
Project: Kessman	Client Sample ID: MW-5B
W Order: 0707046	Collection Date: 07/11/07 11:45
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	270		5.0	mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-007E
Project: Kessman	Client Sample ID: MW-20A
W Order: 0707046	Collection Date: 07/11/07 9:40
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	18000	5.0		mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-008E
Project: Kessman	Client Sample ID: MW-20B
W Order: 0707046	Collection Date: 07/11/07 10:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/13/07 16:11	TestCode: TSS160.2
Col Type:	BatchNo: R10324
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	10	5.0		mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-009E
Project: Kessman	Client Sample ID: MH-1
W Order: 0707046	Collection Date: 07/11/07 9:25
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	84		5.0	mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-010E
Project: Kessman	Client Sample ID: SW-1
W Order: 0707046	Collection Date: 07/11/07 11:00
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	PrepDate:
ColumnID:	BatchNo: R10324
Revision: 07/13/07 16:11	FileID: 1-SAMP-
Col Type:	

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	540		5.0	mg/L	1	07/13/07 10:00

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0707046-011E
Project: Kessman	Client Sample ID: SW-2
W Order: 0707046	Collection Date: 07/11/07 11:20
Matrix: GROUNDWATER	Date Received: 07/12/07 8:00
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture:
Revision: 07/13/07 16:11	TestCode: TSS160.2
Col Type:	BatchNo: R10324
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	71	5.0		mg/L	1	07/13/07 10:00

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman

W Order: 0707046

Matrix: GROUNDWATER

Inst. ID: DENVER APX-200

ColumnID:

Revision: 07/13/07 16:11

Col Type:

Sample Size: NA

%Moisture:

TestCode TSS160.2

Lab ID: 0707046-012E

Client Sample ID: SW-3

Collection Date: 07/11/07 9:45

Date Received: 07/12/07 8:00

PrepDate:

BatchNo: R10324

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS)				EPA 160.2		
Residue, Suspended (TSS)	110		5.0	mg/L	1	07/13/07 10:00

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

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

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL SUMMARY

NYS DEC SAMPLE ID	LABORATORY SAMPLE ID	Type	Analytical Requirements					
			VOA GC/MS Method #	BNA GC/MS Method #	VOA GC Method #	MISC GC Method #	METALS Method #	OTHER Method #
SW2	0708142-001	SAMP	SW8260B					
SW3	0708142-002	SAMP	SW8260B					
SW4	0708142-003	SAMP	SW8260B					
SED2	0708142-004	SAMP				SW8082		SM 2540 G
SED3	0708142-005	SAMP				SW8082		SM 2540 G
SED4	0708142-006	DUP						SM 2540 G
SED4	0708142-006	MS				SW8082		
SED4	0708142-006	MSD				SW8082		
SED4	0708142-006	SAMP				SW8082		SM 2540 G
KL-Fish 1	0708142-007	SAMP				SW8082		
KL-Fish 2	0708142-008	SAMP				SW8082		
KL-Amph1	0708142-009	SAMP				SW8082		
KL-Fish 1	0708142-010	SAMP		SOP 100-58				SM 2540 G
KL-Fish 2	0708142-011	SAMP		SOP 100-58				SM 2540 G



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Brittonfield Lab

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Chain of Custody

1 of 2

Client: NVSDEC (O'Brien & Gere)						Analysis/Method													
Project: Kessman Landfill						VOC's PCB's													
Sampled by: Ron Chiarella + Abby Marton																			
Client Contact: Steve Mooney (OEG) Phone # 315-437-6100 x27117																			
Sample Description																			
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers										Comments				
SW 2	8/22/07	0915	SW	Grab	3	X													
SW 3	8/22/07	0940	↓	↓	3	X													
SW 4 (Center of pond)	8/22/07	1030	↓	↓	3	X													
SED 2	8/22/07	0930	SED	Grab	1		X												
SED 3	↓	1000	↓	↓	1		X												
SED 4 (Center of pond)	↓	1045	↓	↓	1		X												
Relinquished by:						Date:		Time:		Received by:						Date:		Time:	
Relinquished by:						Date:		Time:		Received by:						Date:		Time:	
Relinquished by: Abby K. Marton						Date: 8/23/07		Time: 1220		Received by Lab: Thom O'Brien						Date: 8.23.07		Time: 12:20	
Shipment Method: Walk-in						Airbill Number:													

Turnaround Time Required:
 Routine _____
 Rush (Specify) _____

Comments:

Cooler Temperature: 2.4°C on ice

Original - Laboratory
 Copy - Client



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman Landfill

W Order: 0708142

Matrix: SURFACE WATER

Inst. ID: MS02 12

ColumnID: Rtx-502.2

Revision: 08/30/07 9:16

Col Type:

Sample Size: 25 mL

%Moisture:

TestCode: 8260W OLM42

Lab ID: 0708142-001A

Client Sample ID: SW2

Collection Date: 08/22/07 9:15

Date Received: 08/23/07 12:20

PrepDate:

BatchNo: R10911

FileID: 1-SAMP-M2104.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	08/29/07 18:31
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 18:31
Vinyl chloride	ND		1.00	0.04	µg/L	1	08/29/07 18:31
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 18:31
Chloroethane	ND		1.00	0.12	µg/L	1	08/29/07 18:31
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 18:31
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 18:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
Acetone	3.73	J	10.0	0.82	µg/L	1	08/29/07 18:31
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 18:31
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 18:31
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 18:31
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Cyclohexane	ND		0.50	0.06	µg/L	1	08/29/07 18:31
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Benzene	ND		0.50	0.01	µg/L	1	08/29/07 18:31
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Methylcyclohexane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 18:31
Toluene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 18:31
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 18:31
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 18:31

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

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-001A
Project: Kessman Landfill	Client Sample ID: SW2
W Order: 0708142	Collection Date: 08/22/07 9:15
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2104.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 18:31
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 18:31
Chlorobenzene	ND		0.50	0.01	µg/L	1	08/29/07 18:31
Ethylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Xylenes (total)	ND		1.00	0.04	µg/L	1	08/29/07 18:31
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
Bromoform	ND		0.50	0.05	µg/L	1	08/29/07 18:31
Isopropylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 18:31
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 18:31
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 18:31
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 18:31
Surr: Dibromofluoromethane	97.9		75-127	0.03	%REC	1	08/29/07 18:31
Surr: 1,2-Dichloroethane-d4	110		75-134	0.04	%REC	1	08/29/07 18:31
Surr: Toluene-d8	105		75-125	0.01	%REC	1	08/29/07 18:31
Surr: 4-Bromofluorobenzene	93.5		75-125	0.04	%REC	1	08/29/07 18:31

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-002A
Project: Kessman Landfill	Client Sample ID: SW3
W Order: 0708142	Collection Date: 08/22/07 9:40
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2105.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	0.42	J	1.00	0.07	µg/L	1	08/29/07 19:09
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 19:09
Vinyl chloride	20.5		1.00	0.04	µg/L	1	08/29/07 19:09
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 19:09
Chloroethane	2.26		1.00	0.12	µg/L	1	08/29/07 19:09
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 19:09
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 19:09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
Acetone	3.18	J	10.0	0.82	µg/L	1	08/29/07 19:09
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 19:09
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 19:09
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 19:09
1,1-Dichloroethane	0.16	J	0.50	0.03	µg/L	1	08/29/07 19:09
cis-1,2-Dichloroethene	15.1		0.50	0.03	µg/L	1	08/29/07 19:09
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 19:09
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 19:09
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Cyclohexane	0.54		0.50	0.06	µg/L	1	08/29/07 19:09
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Benzene	4.47		0.50	0.01	µg/L	1	08/29/07 19:09
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Methylcyclohexane	1.09		0.50	0.03	µg/L	1	08/29/07 19:09
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 19:09
Toluene	1.63		0.50	0.02	µg/L	1	08/29/07 19:09
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 19:09
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:09
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:09

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-002A
Project: Kessman Landfill	Client Sample ID: SW3
W Order: 0708142	Collection Date: 08/22/07 9:40
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2105.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 19:09
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 19:09
Chlorobenzene	6.49		0.50	0.01	µg/L	1	08/29/07 19:09
Ethylbenzene	0.11	J	0.50	0.02	µg/L	1	08/29/07 19:09
Xylenes (total)	1.32		1.00	0.04	µg/L	1	08/29/07 19:09
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
Bromofom	ND		0.50	0.05	µg/L	1	08/29/07 19:09
Isopropylbenzene	1.42		0.50	0.02	µg/L	1	08/29/07 19:09
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 19:09
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:09
1,4-Dichlorobenzene	1.18		0.50	0.02	µg/L	1	08/29/07 19:09
1,2-Dichlorobenzene	0.17	J	0.50	0.02	µg/L	1	08/29/07 19:09
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 19:09
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 19:09
Surr: Dibromofluoromethane	98.3		75-127	0.03	%REC	1	08/29/07 19:09
Surr: 1,2-Dichloroethane-d4	110		75-134	0.04	%REC	1	08/29/07 19:09
Surr: Toluene-d8	108		75-125	0.01	%REC	1	08/29/07 19:09
Surr: 4-Bromofluorobenzene	98.6		75-125	0.04	%REC	1	08/29/07 19:09

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-003A
Project: Kessman Landfill	Client Sample ID: SW4
W Order: 0708142	Collection Date: 08/22/07 10:30
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	PrepDate:
	BatchNo: R10911
	FileID: 1-SAMP-M2106.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Dichlorodifluoromethane	ND		1.00	0.07	µg/L	1	08/29/07 19:48
Chloromethane	ND		1.00	0.13	µg/L	1	08/29/07 19:48
Vinyl chloride	ND		1.00	0.04	µg/L	1	08/29/07 19:48
Bromomethane	ND		1.00	0.06	µg/L	1	08/29/07 19:48
Chloroethane	0.26	J	1.00	0.12	µg/L	1	08/29/07 19:48
Trichlorofluoromethane	ND		1.00	0.02	µg/L	1	08/29/07 19:48
1,1-Dichloroethene	ND		0.50	0.05	µg/L	1	08/29/07 19:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
Acetone	3.93	J	10.0	0.82	µg/L	1	08/29/07 19:48
Carbon disulfide	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Methyl acetate	ND		0.50	0.30	µg/L	1	08/29/07 19:48
Methylene chloride	ND		2.00	0.03	µg/L	1	08/29/07 19:48
trans-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Methyl tert-butyl ether	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,1-Dichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
cis-1,2-Dichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
2-Butanone	ND		10.0	0.65	µg/L	1	08/29/07 19:48
Chloroform	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,1,1-Trichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Cyclohexane	ND		0.50	0.06	µg/L	1	08/29/07 19:48
Carbon tetrachloride	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Benzene	ND		0.50	0.01	µg/L	1	08/29/07 19:48
1,2-Dichloroethane	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Trichloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Methylcyclohexane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,2-Dichloropropane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Bromodichloromethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
cis-1,3-Dichloropropene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
4-Methyl-2-pentanone	ND		5.00	0.38	µg/L	1	08/29/07 19:48
Toluene	0.13	J	0.50	0.02	µg/L	1	08/29/07 19:48
trans-1,3-Dichloropropene	ND		0.50	0.03	µg/L	1	08/29/07 19:48
1,1,2-Trichloroethane	ND		0.50	0.03	µg/L	1	08/29/07 19:48
Tetrachloroethene	ND		0.50	0.03	µg/L	1	08/29/07 19:48

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



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-003A
Project: Kessman Landfill	Client Sample ID: SW4
W Order: 0708142	Collection Date: 08/22/07 10:30
Matrix: SURFACE WATER	Date Received: 08/23/07 12:20
Inst. ID: MS02 12	Sample Size: 25 mL
ColumnID: Rtx-502.2	%Moisture:
Revision: 08/30/07 9:16	TestCode: 8260W OLM42
Col Type:	BatchNo: R10911
	FileID: 1-SAMP-M2106.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					SW8260B		
2-Hexanone	ND		5.00	0.58	µg/L	1	08/29/07 19:48
Dibromochloromethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
1,2-Dibromoethane	ND		0.50	0.04	µg/L	1	08/29/07 19:48
Chlorobenzene	ND		0.50	0.01	µg/L	1	08/29/07 19:48
Ethylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Xylenes (total)	ND		1.00	0.04	µg/L	1	08/29/07 19:48
Styrene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
Bromofom	ND		0.50	0.05	µg/L	1	08/29/07 19:48
Isopropylbenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,1,2,2-Tetrachloroethane	ND		0.50	0.08	µg/L	1	08/29/07 19:48
1,3-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,4-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,2-Dichlorobenzene	ND		0.50	0.02	µg/L	1	08/29/07 19:48
1,2-Dibromo-3-chloropropane	ND		1.00	0.26	µg/L	1	08/29/07 19:48
1,2,4-Trichlorobenzene	ND		1.00	0.02	µg/L	1	08/29/07 19:48
Surr: Dibromofluoromethane	97.4		75-127	0.03	%REC	1	08/29/07 19:48
Surr: 1,2-Dichloroethane-d4	108		75-134	0.04	%REC	1	08/29/07 19:48
Surr: Toluene-d8	104		75-125	0.01	%REC	1	08/29/07 19:48
Surr: 4-Bromofluorobenzene	95.0		75-125	0.04	%REC	1	08/29/07 19:48

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-004A
Project: Kessman Landfill	Client Sample ID: SED2
W Order: 0708142	Collection Date: 08/22/07 9:30
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C Sample Size: 30 g	PrepDate: 08/27/07 15:54
ColumnID: DB-608 %Moisture: 38.3	BatchNo: 6087/R10921
Revision: 08/30/07 11:01 TestCode: 8082S	FileID: 1-SAMP-F:\90aug07\C082907.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.551	0.0710	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1221	ND	0.551	0.0720	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1232	ND	0.551	0.0438	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1242	3.51	0.551	0.0593	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1248	ND	0.551	0.116	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1254	ND	0.551	0.154	mg/Kg-dry	20	08/29/07 13:03	
Aroclor 1260	ND	0.551	0.0648	mg/Kg-dry	20	08/29/07 13:03	
Surr: Tetrachloro-m-xylene	117	44-134	0	%REC	20	08/29/07 13:03	
Surr: Decachlorobiphenyl	93.3	36-141	0	%REC	20	08/29/07 13:03	

NOTES:

Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-004A
Project: Kessman Landfill	Client Sample ID: SED2
W Order: 0708142	Collection Date: 08/22/07 9:30
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	Sample Size: 30 g
ColumnID: DB-1701	%Moisture: 38.3
Revision: 08/30/07 11:04	TestCode: 8082S
Col Type: Confirm	PrepDate: 08/27/07 15:54
	BatchNo: 6087/R10922
	FileID: 1-SAMP-F:\90aug07\D082906.r

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND	0.551	0.0710	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1221	ND	0.551	0.0720	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1232	ND	0.551	0.0438	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1242	3.28	0.551	0.0593	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1248	ND	0.551	0.116	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1254	ND	0.551	0.154	mg/Kg-dry	20	08/29/07 12:32	
Aroclor 1260	ND	0.551	0.0648	mg/Kg-dry	20	08/29/07 12:32	
Surr: Tetrachloro-m-xylene	117	44-134	0	%REC	20	08/29/07 12:32	
Surr: Decachlorobiphenyl	110	36-141	0	%REC	20	08/29/07 12:32	

NOTES:
Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-005A
Project: Kessman Landfill	Client Sample ID: SED3
W Order: 0708142	Collection Date: 08/22/07 10:00
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 08/27/07 15:54
ColumnID: DB-608	BatchNo: 6087/R10921
Revision: 08/30/07 11:01	FileID: 1-SAMP-F:\90aug07\C082908.r
Col Type: Primary	
Sample Size: 30 g	
%Moisture: 50.8	
TestCode: 8082S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		3.46	0.445	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1221	ND		3.46	0.451	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1232	ND		3.46	0.274	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1242	23.2		3.46	0.372	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1248	ND		3.46	0.726	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1254	ND		3.46	0.963	mg/Kg-dry	100	08/29/07 13:34
Aroclor 1260	ND		3.46	0.407	mg/Kg-dry	100	08/29/07 13:34
Surr: Tetrachloro-m-xylene	0	S	44-134	0	%REC	100	08/29/07 13:34
Surr: Decachlorobiphenyl	0	S	36-141	0	%REC	100	08/29/07 13:34

NOTES:

S - Surrogates diluted out.

Altered Aroclor 1242.

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-005A
Project: Kessman Landfill	Client Sample ID: SED3
W Order: 0708142	Collection Date: 08/22/07 10:00
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 08/27/07 15:54
ColumnID: DB-1701	BatchNo: 6087/R10922
Revision: 08/30/07 11:04	FileID: 1-SAMP-F:\90aug07\D082907.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		3.46	0.445	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1221	ND		3.46	0.451	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1232	ND		3.46	0.274	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1242	23.4		3.46	0.372	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1248	ND		3.46	0.726	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1254	ND		3.46	0.963	mg/Kg-dry	100	08/29/07 13:03
Aroclor 1260	ND		3.46	0.407	mg/Kg-dry	100	08/29/07 13:03
Surr: Tetrachloro-m-xylene	0	S	44-134	0	%REC	100	08/29/07 13:03
Surr: Decachlorobiphenyl	0	S	36-141	0	%REC	100	08/29/07 13:03

NOTES:

Altered Aroclor 1242.
S - Surrogates diluted out.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-006A
Project: Kessman Landfill	Client Sample ID: SED4
W Order: 0708142	Collection Date: 08/22/07 10:45
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 08/27/07 15:54
ColumnID: DB-608	BatchNo: 6087/R10921
Revision: 08/30/07 11:01	FileID: 1-SAMP-F:\90aug07\C082909.r
Col Type: Primary	
Sample Size: 30 g	
%Moisture: 44.1	
TestCode: 8082S	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.304	0.0392	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1221	ND		0.304	0.0397	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1232	ND		0.304	0.0242	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1242	2.21		0.304	0.0327	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1248	ND		0.304	0.0639	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1254	ND		0.304	0.0848	mg/Kg-dry	10	08/29/07 14:05
Aroclor 1260	ND		0.304	0.0358	mg/Kg-dry	10	08/29/07 14:05
Surr: Tetrachloro-m-xylene	105		44-134	0	%REC	10	08/29/07 14:05
Surr: Decachlorobiphenyl	118		36-141	0	%REC	10	08/29/07 14:05

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-006A
Project: Kessman Landfill	Client Sample ID: SED4
W Order: 0708142	Collection Date: 08/22/07 10:45
Matrix: SEDIMENT	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 08/27/07 15:54
ColumnID: DB-1701	BatchNo: 6087/R10922
Revision: 08/30/07 11:04	FileID: 1-SAMP-F:\90aug07\D082908.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3550B)
Aroclor 1016	ND		0.304	0.0392	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1221	ND		0.304	0.0397	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1232	ND		0.304	0.0242	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1242	2.53		0.304	0.0327	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1248	ND		0.304	0.0639	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1254	ND		0.304	0.0848	mg/Kg-dry	10	08/29/07 13:34
Aroclor 1260	ND		0.304	0.0358	mg/Kg-dry	10	08/29/07 13:34
Surr: Tetrachloro-m-xylene	107		44-134	0	%REC	10	08/29/07 13:34
Surr: Decachlorobiphenyl	127		36-141	0	%REC	10	08/29/07 13:34

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-007A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11011
Revision: 09/11/07 8:26	FileID: 1-SAMP-E:\90sept07\C091004.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 14:07
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 14:07
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 14:07
Aroclor 1242	16.6		3.40	1.21	mg/Kg	200	09/10/07 14:07
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 14:07
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 14:07
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 14:07
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 14:07
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 14:07
Surr: Tetrachloro-m-xylene	0 S		40-140	0	%REC	200	09/10/07 14:07
Surr: Decachlorobiphenyl	0 S		40-140	0	%REC	200	09/10/07 14:07

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-007A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11012
Revision: 09/11/07 8:27	FileID: 1-SAMP-E:\90sept07\D091003.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 13:36
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 13:36
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 13:36
Aroclor 1242	17.1		3.40	1.21	mg/Kg	200	09/10/07 13:36
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 13:36
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 13:36
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 13:36
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 13:36
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 13:36
Surr: Tetrachloro-m-xylene	0	S	40-140	0	%REC	200	09/10/07 13:36
Surr: Decachlorobiphenyl	0	S	40-140	0	%REC	200	09/10/07 13:36

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-008A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 2</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11011
Revision: 09/11/07 8:26	FileID: 1-SAMP-E:\90sept07\C091005.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		3.40	0.574	mg/Kg	200	09/10/07 14:38
Aroclor 1221	ND		3.40	1.25	mg/Kg	200	09/10/07 14:38
Aroclor 1232	ND		3.40	1.27	mg/Kg	200	09/10/07 14:38
Aroclor 1242	16.1		3.40	1.21	mg/Kg	200	09/10/07 14:38
Aroclor 1248	ND		3.40	1.04	mg/Kg	200	09/10/07 14:38
Aroclor 1254	ND		3.40	1.26	mg/Kg	200	09/10/07 14:38
Aroclor 1260	ND		3.40	0.618	mg/Kg	200	09/10/07 14:38
Aroclor 1262	ND		3.40	1.17	mg/Kg	200	09/10/07 14:38
Aroclor 1268	ND		3.40	0.752	mg/Kg	200	09/10/07 14:38
Surr: Tetrachloro-m-xylene	0	S	40-140	0	%REC	200	09/10/07 14:38
Surr: Decachlorobiphenyl	0	S	40-140	0	%REC	200	09/10/07 14:38

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

Qualifiers:

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



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-008A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 2</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11012
Revision: 09/11/07 8:27	FileID: 1-SAMP-E:\90sept07\D091004.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND	3.40	3.40	0.574	mg/Kg	200	09/10/07 14:07
Aroclor 1221	ND	3.40	3.40	1.25	mg/Kg	200	09/10/07 14:07
Aroclor 1232	ND	3.40	3.40	1.27	mg/Kg	200	09/10/07 14:07
Aroclor 1242	16.4	3.40	3.40	1.21	mg/Kg	200	09/10/07 14:07
Aroclor 1248	ND	3.40	3.40	1.04	mg/Kg	200	09/10/07 14:07
Aroclor 1254	ND	3.40	3.40	1.26	mg/Kg	200	09/10/07 14:07
Aroclor 1260	ND	3.40	3.40	0.618	mg/Kg	200	09/10/07 14:07
Aroclor 1262	ND	3.40	3.40	1.17	mg/Kg	200	09/10/07 14:07
Aroclor 1268	ND	3.40	3.40	0.752	mg/Kg	200	09/10/07 14:07
Surr: Tetrachloro-m-xylene	0 S	40-140	40-140	0	%REC	200	09/10/07 14:07
Surr: Decachlorobiphenyl	0 S	40-140	40-140	0	%REC	200	09/10/07 14:07

NOTES:

Surrogates diluted out. Altered Aroclor 1242.

Qualifiers:

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

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



Life Science Laboratories, Inc.

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

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-009A
Project: Kessman Landfill	Client Sample ID: <i>KL-Amph1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20C	PrepDate: 09/05/07 10:50
ColumnID: DB-608	BatchNo: 6138/R11004
Revision: 09/10/07 12:45	FileID: 1-SAMP-E:\90sept07\C090709.r
Col Type: Primary	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND	0.200	0.0338	mg/Kg	10	09/07/07 19:33	
Aroclor 1221	ND	0.200	0.0738	mg/Kg	10	09/07/07 19:33	
Aroclor 1232	ND	0.200	0.0748	mg/Kg	10	09/07/07 19:33	
Aroclor 1242	0.706	0.200	0.0712	mg/Kg	10	09/07/07 19:33	
Aroclor 1248	ND	0.200	0.0609	mg/Kg	10	09/07/07 19:33	
Aroclor 1254	ND	0.200	0.0744	mg/Kg	10	09/07/07 19:33	
Aroclor 1260	ND	0.200	0.0364	mg/Kg	10	09/07/07 19:33	
Aroclor 1262	ND	0.200	0.0686	mg/Kg	10	09/07/07 19:33	
Aroclor 1268	ND	0.200	0.0442	mg/Kg	10	09/07/07 19:33	
Surr: Tetrachloro-m-xylene	120	40-140	0	%REC	10	09/07/07 19:33	
Surr: Decachlorobiphenyl	105	40-140	0	%REC	10	09/07/07 19:33	

NOTES:

Altered Aroclor 1242.

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-009A
Project: Kessman Landfill	Client Sample ID: <i>KL-Amph1</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: GC90 20D	PrepDate: 09/05/07 10:50
ColumnID: DB-1701	BatchNo: 6138/R11005
Revision: 09/10/07 12:46	FileID: 1-SAMP-E:\90sept07\D090708.r
Col Type: Confirm	

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS BY GC/ECD					SW8082		(SW3540C)
Aroclor 1016	ND		0.200	0.0338	mg/Kg	10	09/07/07 19:02
Aroclor 1221	ND		0.200	0.0738	mg/Kg	10	09/07/07 19:02
Aroclor 1232	ND		0.200	0.0748	mg/Kg	10	09/07/07 19:02
Aroclor 1242	0.706		0.200	0.0712	mg/Kg	10	09/07/07 19:02
Aroclor 1248	ND		0.200	0.0609	mg/Kg	10	09/07/07 19:02
Aroclor 1254	ND		0.200	0.0744	mg/Kg	10	09/07/07 19:02
Aroclor 1260	ND		0.200	0.0364	mg/Kg	10	09/07/07 19:02
Aroclor 1262	ND		0.200	0.0686	mg/Kg	10	09/07/07 19:02
Aroclor 1268	ND		0.200	0.0442	mg/Kg	10	09/07/07 19:02
Surr: Tetrachloro-m-xylene	137		40-140	0	%REC	10	09/07/07 19:02
Surr: Decachlorobiphenyl	108		40-140	0	%REC	10	09/07/07 19:02

NOTES:

Altered Aroclor 1242.

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

Life Science Laboratories, Inc.

Date: 06-Sep-07

CLIENT: O'Brien & Gere Engineers, Inc.**Lab Order:** 0708142**Project:** Kessman Landfill

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
SED2	0708142-004A	wt%	8/22/2007	8/23/2007	8/25/2007	R10858	38.3
SED3	0708142-005A	wt%	8/22/2007	8/23/2007	8/25/2007	R10858	50.8
SED4	0708142-006A	wt%	8/22/2007	8/23/2007	8/25/2007	R10858	44.1
KL-Fish 1	0708142-010A	wt%	8/22/2007	8/23/2007	9/5/2007	R10971	74.9
KL-Fish 2	0708142-011A	wt%	8/22/2007	8/23/2007	9/5/2007	R10971	77.2



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Kessman Landfill

W Order: 0708142

Matrix: BIOTA

Inst. ID: DENVER APX-200 Sample Size: NA

ColumnID: %Moisture: 74.9

Revision: 09/13/07 8:56 TestCode PLIPIDS

Col Type:

Lab ID: 0708142-010A

Client Sample ID: KL-Fish 1

Collection Date: 08/22/07 14:10

Date Received: 08/23/07 12:20

PrepDate: 09/10/07 0:00

BatchNo: R11039

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT LIPIDS				SOP 100-58		
Percent Lipids	2.16	0.100		wt%	1	09/10/07

Qualifiers:

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

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



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.	Lab ID: 0708142-011A
Project: Kessman Landfill	Client Sample ID: <i>KL-Fish 2</i>
W Order: 0708142	Collection Date: 08/22/07 14:10
Matrix: BIOTA	Date Received: 08/23/07 12:20
Inst. ID: DENVER APX-200	Sample Size: NA
ColumnID:	%Moisture: 77.2
Revision: 09/13/07 8:56	TestCode: PLIPIDS
Col Type:	PrepDate: 09/10/07 0:00
	BatchNo: R11039
	FileID: 1-SAMP-

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
PERCENT LIPIDS				SOP 100-58		
Percent Lipids	3.54		0.100	wt%	1	09/10/07

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

Quality Control Results

GC/MS Volatile Organics Data

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: OBG-ALBAN SAS No. _____ SDG No.: 0708142

	EPA	LSL ID	SMC1	SMC2	SMC3	SMC4	TOT
	SAMPLE NO.		(DBF) 1 #	(DCE) 1 #	(TOL) 1 #	(BFB) 1 #	
01	MSB-10911	MSB-10911	95	98	103	91	0
02	LCS-10911	LCS-10911	95	98	103	91	0
03	MB-10911	MB-10911	97	108	105	94	0
04	SW2	0708142-001A	98	110	105	94	0
05	SW3	0708142-002A	98	110	108	99	0
06	SW4	0708142-003A	97	108	104	95	0

QC Limit

SMC 1 (DBF) 1 = Dibromofluoromethane 75-127
 SMC 2 (DCE) 1 = 1,2-Dichloroethane-d4 75-134
 SMC 3 (TOL) 1 = Toluene-d8 75-125
 SMC 4 (BFB) 1 = 4-Bromofluorobenzene 75-125

Column to be used to flag recovery values

* Values outside of contract required QC limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MSB-10911	SampType: MSB	TestCode: 8260W_OLM	Units: µg/L	Prep Date:	RunNo: 10911
Client ID: ZZZZZ	Batch ID: R10911	Method: SW8260B		Analysis Date: 8/29/07	SeqNo: 300100
Instrument: MS02_12	ColumnID: Rtx-502.2	Rtx-502.2, 3.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	9.47	0.500	10	0	95	70	130				
1,1,2,2-Tetrachloroethane	9.93	0.500	10	0	99	68	136				
1,1,2-Trichloro-1,2,2-trifluoroethane	10.1	0.500	10	0	101	70	130				
1,1,2-Trichloroethane	9.82	0.500	10	0	98	68	133				
1,1-Dichloroethane	10.1	0.500	10	0	101	70	130				
1,1-Dichloroethene	9.77	0.500	10	0	98	70	135				
1,2,4-Trichlorobenzene	9.73	1.00	10	0	97	68	130				
1,2-Dibromo-3-chloropropane	8.50	1.00	10	0	85	55	149				
1,2-Dibromoethane	8.90	0.500	10	0	89	70	130				
1,2-Dichlorobenzene	10.1	0.500	10	0	101	70	130				
1,2-Dichloroethane	9.52	0.500	10	0	95	70	130				
1,2-Dichloropropane	9.57	0.500	10	0	96	70	130				
1,3-Dichlorobenzene	10.1	0.500	10	0	101	70	130				
1,4-Dichlorobenzene	10.0	0.500	10	0	100	70	130				
2-Butanone	19.6	10.0	20	0	98	25	150				
2-Hexanone	18.6	5.00	20	0	93	25	155				
4-Methyl-2-pentanone	15.7	5.00	20	0	78	44	150				
Acetone	23.4	10.0	20	0	117	25	150				
Benzene	10.2	0.500	10	0	102	70	132				
Bromodichloromethane	9.46	0.500	10	0	95	70	130				
Bromoform	8.38	0.500	10	0	84	70	130				
Bromomethane	9.41	1.00	10	0	94	29	156				
Carbon disulfide	7.56	0.500	10	0	76	66	130				
Carbon tetrachloride	9.19	0.500	10	0	92	70	140				
Chlorobenzene	9.82	0.500	10	0	98	69	130				
Chloroethane	10.8	1.00	10	0	108	70	130				
Chloroform	10.0	0.500	10	0	100	70	130				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MSB-10911	SampType: MSB	TestCode: 8260W_OLM	Units: µg/L	Prep Date:	RunNo: 10911						
Client ID: ZZZZZ	Batch ID: R10911	Method: SW8260B		Analysis Date: 8/29/07	SeqNo: 300100						
Instrument: MS02_12	ColumnID: Rtx-502.2	Rtx-502.2, 3.0 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	9.76	1.00	10	0	98	58	135				
cis-1,2-Dichloroethene	10.1	0.500	10	0	101	48	151				
cis-1,3-Dichloropropene	8.97	0.500	10	0	90	70	130				
Cyclohexane	9.68	0.500	10	0	97	70	130				
Dibromochloromethane	8.60	0.500	10	0	86	70	130				
Dichlorodifluoromethane	7.55	1.00	10	0	76	68	134				
Ethylbenzene	10.2	0.500	10	0	102	70	130				
Isopropylbenzene	10.5	0.500	10	0	105	70	130				
Methyl acetate	8.99	0.500	10	0	90	63	132				
Methyl tert-butyl ether	9.44	0.500	10	0	94	70	130				
Methylcyclohexane	10.7	0.500	10	0	107	62	130				
Methylene chloride	10.1	2.00	10	0	101	70	130				
Styrene	9.61	0.500	10	0	96	57	133				
Tetrachloroethene	9.74	0.500	10	0	97	70	130				
Toluene	10.4	0.500	10	0	104	70	130				
trans-1,2-Dichloroethene	9.64	0.500	10	0	96	70	130				
trans-1,3-Dichloropropene	8.79	0.500	10	0	88	58	132				
Trichloroethene	9.85	0.500	10	0	98	42	167				
Trichlorofluoromethane	9.10	1.00	10	0	91	70	131				
Vinyl chloride	9.80	1.00	10	0	98	70	130				
Xylenes (total)	30.4	1.00	30	0	101	65	132				
Surr: 1,2-Dichloroethane-d4	9.83	0.100	10	0	98	75	134				
Surr: 4-Bromofluorobenzene	9.06	0.100	10	0	91	75	125				
Surr: Dibromofluoromethane	9.49	0.100	10	0	95	75	127				
Surr: Toluene-d8	10.2	0.100	10	0	103	75	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-10911	SampType: LCS	TestCode: 8260W_OLM	Units: µg/L	Prep Date:	RunNo: 10911						
Client ID: ZZZZZ	Batch ID: R10911	Method: SW8260B		Analysis Date: 8/29/2007	SeqNo: 298614						
Instrument: MS02_12	ColumnID: Rtx-502.2	Rtx-502.2, 3.0 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	7.55	1.00	10	0	76	63	139				
Chloromethane	9.76	1.00	10	0	98	59	133				
Vinyl chloride	9.80	1.00	10	0	98	75	125				
Bromomethane	9.41	1.00	10	0	94	42	156				
Chloroethane	10.8	1.00	10	0	108	75	124				
Trichlorofluoromethane	9.10	1.00	10	0	91	73	132				
1,1-Dichloroethene	9.77	0.500	10	0	98	77	126				
1,1,2-Trichloro-1,2,2-trifluoroethane	10.1	0.500	10	0	101	80	120				
Acetone	23.4	10.0	20	0	117	37	163				
Carbon disulfide	7.56	0.500	10	0	76	76	122				
Methyl acetate	8.99	0.500	10	0	90	67	136				
Methylene chloride	10.1	2.00	10	0	101	78	120				
trans-1,2-Dichloroethene	9.64	0.500	10	0	96	80	120				
Methyl tert-butyl ether	9.44	0.500	10	0	94	76	122				
1,1-Dichloroethane	10.1	0.500	10	0	101	80	120				
cis-1,2-Dichloroethene	10.1	0.500	10	0	101	80	120				
2-Butanone	19.6	10.0	20	0	98	49	153				
Chloroform	10.0	0.500	10	0	100	80	120				
1,1,1-Trichloroethane	9.47	0.500	10	0	95	80	127				
Cyclohexane	9.68	0.500	10	0	97	78	124				
Carbon tetrachloride	9.19	0.500	10	0	92	74	137				
Benzene	10.2	0.500	10	0	102	80	120				
1,2-Dichloroethane	9.52	0.500	10	0	95	73	126				
Trichloroethene	9.85	0.500	10	0	98	80	120				
Methylcyclohexane	10.7	0.500	10	0	107	75	126				
1,2-Dichloropropane	9.57	0.500	10	0	96	80	120				
Bromodichloromethane	9.46	0.500	10	0	95	78	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-10911	SampType: LCS	TestCode: 8260W_OLM	Units: µg/L	Prep Date:	RunNo: 10911						
Client ID: ZZZZZ	Batch ID: R10911	Method: SW8260B		Analysis Date: 8/29/2007	SeqNo: 298614						
Instrument: MS02_12	ColumnID: Rtx-502.2	Rtx-502.2, 3.0 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	8.97	0.500	10	0	90	80	120				
4-Methyl-2-pentanone	15.7	5.00	20	0	78	50	150				
Toluene	10.4	0.500	10	0	104	80	120				
trans-1,3-Dichloropropene	8.79	0.500	10	0	88	73	121				
1,1,2-Trichloroethane	9.82	0.500	10	0	98	80	120				
Tetrachloroethene	9.74	0.500	10	0	97	80	120				
2-Hexanone	18.6	5.00	20	0	93	44	152				
Dibromochloromethane	8.60	0.500	10	0	86	75	123				
1,2-Dibromoethane	8.90	0.500	10	0	89	80	120				
Chlorobenzene	9.82	0.500	10	0	98	80	120				
Ethylbenzene	10.2	0.500	10	0	102	80	120				
Xylenes (total)	30.4	1.00	30	0	101	80	120				
Styrene	9.61	0.500	10	0	96	79	120				
Bromoform	8.38	0.500	10	0	84	72	126				
Isopropylbenzene	10.5	0.500	10	0	105	80	121				
1,1,2,2-Tetrachloroethane	9.93	0.500	10	0	99	73	122				
1,3-Dichlorobenzene	10.1	0.500	10	0	101	80	120				
1,4-Dichlorobenzene	10.0	0.500	10	0	100	80	120				
1,2-Dichlorobenzene	10.1	0.500	10	0	101	80	120				
1,2-Dibromo-3-chloropropane	8.50	1.00	10	0	85	71	124				
1,2,4-Trichlorobenzene	9.73	1.00	10	0	97	73	123				
Surr: Dibromofluoromethane	9.49	0.100	10	0	95	75	127				
Surr: 1,2-Dichloroethane-d4	9.83	0.100	10	0	98	75	134				
Surr: Toluene-d8	10.2	0.100	10	0	103	75	125				
Surr: 4-Bromofluorobenzene	9.06	0.100	10	0	91	75	125				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

VOLATILE METHOD BLANK SUMMARY

MB-10911

Lab Name: Life Science Laboratorie Contract: _____Lab Code: LSLB Case No.: OBG-ALBA SAS No.: _____ SDG No.: 0708142Lab File ID: M2097.D Lab Sample ID: MB-10911Date Analyzed: 8/29/2007 Time Analyzed: 14:04GC Column: Rtx-502 ID: 0.53 (mm) Heated Purge: (Y/N) YInstrument ID: MS02_12

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TB082907A2	TB082907A2	TAM2091.D	10:19
02	MSB-10911	MSB-10911	M2093.D	11:31
03	LCS-10911	LCS-10911	M2093.D	11:31
04	SW2	0708142-001A	M2104.D	18:31
05	SW3	0708142-002A	M2105.D	19:09
06	SW4	0708142-003A	M2106.D	19:48

COMMENTS: _____

page 1 of 1

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Bromomethane	ND	1.00									
Chloroethane	ND	1.00									
Trichlorofluoromethane	ND	1.00									
1,1-Dichloroethene	ND	0.500									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.500									
Acetone	ND	10.0									
Carbon disulfide	ND	0.500									
Methyl acetate	ND	0.500									
Methylene chloride	0.210	2.00									J
trans-1,2-Dichloroethene	ND	0.500									
Methyl tert-butyl ether	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
2-Butanone	ND	10.0									
Chloroform	ND	0.500									
1,1,1-Trichloroethane	ND	0.500									
Cyclohexane	ND	0.500									
Carbon tetrachloride	ND	0.500									
Benzene	ND	0.500									
1,2-Dichloroethane	ND	0.500									
Trichloroethene	ND	0.500									
Methylcyclohexane	ND	0.500									
1,2-Dichloropropane	ND	0.500									
Bromodichloromethane	ND	0.500									

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW8260B

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MB-10911	SampType: MBLK	TestCode: 8260W_OLM	Units: µg/L	Prep Date:	RunNo: 10911
Client ID: ZZZZ	Batch ID: R10911	Method: SW8260B		Analysis Date: 8/29/2007	SeqNo: 298615
Instrument: MS02_12	ColumnID: Rtx-502.2	Rtx-502.2, 3.0 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	ND	0.500									
4-Methyl-2-pentanone	ND	5.00									
Toluene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
1,1,2-Trichloroethane	ND	0.500									
Tetrachloroethene	ND	0.500									
2-Hexanone	ND	5.00									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane	ND	0.500									
Chlorobenzene	ND	0.500									
Ethylbenzene	ND	0.500									
Xylenes (total)	ND	1.00									
Styrene	ND	0.500									
Bromoform	ND	0.500									
Isopropylbenzene	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	0.500									
1,3-Dichlorobenzene	ND	0.500									
1,4-Dichlorobenzene	ND	0.500									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
Surr: Dibromofluoromethane	9.74	0.100	10	0	97	75	127				
Surr: 1,2-Dichloroethane-d4	10.8	0.100	10	0	108	75	134				
Surr: Toluene-d8	10.5	0.100	10	0	105	75	125				
Surr: 4-Bromofluorobenzene	9.40	0.100	10	0	94	75	125				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Life Science Laboratories, Inc.SDG No.: 0708142Lab Code: LSLB

Lab File ID (Standard):

M2092.D

Date Analyzed:

08/29/2007

Instrument ID:

MS02_12

Time Analyzed:

10:52

GC Column:

Rtx-502.2 ID: 0.53 (mm)

Heated Purge: (Y/N)

Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #	
12 HOUR STD	5145641	14.52	3201506	21.11	2636639	26.39	
UPPER LIMIT	10291282	15.02	6403012	21.61	5273278	26.89	
LOWER LIMIT	2572821	14.02	1600753	20.61	1318320	25.89	
SAMPLE NO.							
01 LCS-10911 (LCS-10911)	5879077	14.50	3485031	21.11	2867763	26.39	
02 MSB-10911 (MSB-10911)	5879077	14.50	3485031	21.11	2867763	26.39	
03 MB-10911 (MB-10911)	6532561	14.51	3767414	21.12	3100791	26.40	
04 SW2 (0708142-001A)	6263408	14.52	3655693	21.13	3036373	26.39	
05 SW3 (0708142-002A)	6105600	14.51	3556987	21.14	3184395	26.38	
06 SW4 (0708142-003A)	6303634	14.52	3654276	21.13	3030618	26.41	

IS1 = Fluorobenzene

IS3 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

PCB Data

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: OBG-ALBAN SAS No. _____ SDG No.: 0708142

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	LSL ID	% REC1	% REC2	% REC3	% REC4	TOT OUT
			(TCX) 1 #	(TCX) 2 #	(DCB) 1 #	(DCB) 2 #	
01	MB-6087	MB-6087	99	125	109	109	0
02	LCS-6087	LCS-6087	101	128	113	114	0
03	MSB-6087	MSB-6087	103	132	114	115	0
04	SED2	0708142-004A	117	117	93	110	0
05	SED3	0708142-005A	0 *	0 *	0 *	0 *	4
06	SED4	0708142-006A	105	107	118	127	0
07	SED4MS	0708142-006AMS	110	118	125	108	0
08	SED4MSD	0708142-006AMSD	110	112	127	138	0

QC Limit

% REC1 (TCX) 1 = Tetrachloro-m-xylene	44-134
% REC2 (TCX) 2 = Tetrachloro-m-xylene	44-134
% REC3 (DCB) 1 = Decachlorobiphenyl	36-141
% REC4 (DCB) 2 = Decachlorobiphenyl	36-141

Column to be used to flag recovery values

* Values outside of contract required QC limits / *Surrogate was diluted*

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Life Science Laboratories, Inc Contract: _____

Lab Code: LSLB Case No.: OBG-ALBAN SAS No. _____ SDG No.: 0708142

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

EPA SAMPLE NO.	LSL ID	% REC1 (TCX) 1 #	% REC2 (TCX) 2 #	% REC3 (DCB) 1 #	% REC4 (DCB) 2 #	TOT OUT
01 MB-6138	MB-6138	104	129	112	110	0
02 LCS-6138	LCS-6138	107	132	118	113	0
03 LCSD-6138	LCSD-6138	105	131	116	112	0
04 KL-Amph1	0708142-009A	120	137	105	108	0
05 KL-Fish 1	0708142-007A	0 *	0 *	0 *	0 *	4
06 KL-Fish 2	0708142-008A	0 *	0 *	0 *	0 *	4

QC Limit

% REC1 (TCX) 1 = Tetrachloro-m-xylene	40-140
% REC2 (TCX) 2 = Tetrachloro-m-xylene	40-140
% REC3 (DCB) 1 = Decachlorobiphenyl	40-140
% REC4 (DCB) 2 = Decachlorobiphenyl	40-140

Column to be used to flag recovery values

* Values outside of contract required QC limits

/Surrogate was diluted

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0708142-006AMS	SampType: MS	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 8/27/07	RunNo: 10921						
Client ID: SED4	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298710						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	2.21	0.304	0.119	0	1860	29	167				S
Aroclor 1260	0.195	0.304	0.119	0	164	22	163				JS
Surr: Tetrachloro-m-xylene	0.0394	0	0.0358	0	110	44	134				
Surr: Decachlorobiphenyl	0.0447	0	0.0358	0	125	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0708142-006AMS	SampType: MS	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 8/27/07	RunNo: 10922						
Client ID: SED4	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298723						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	2.32	0.304	0.119	0	1950	29	167				S
Aroclor 1260	0.322	0.304	0.119	0	270	22	163				S
Surr: Tetrachloro-m-xylene	0.0423	0	0.0358	0	118	44	134				
Surr: Decachlorobiphenyl	0.0388	0	0.0358	0	108	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0708142-006AMSD	SampType: MSD	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 8/27/07	RunNo: 10921						
Client ID: SED4	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298711						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	2.25	0.304	0.119	0	1890	29	167	2.21	1.8	60	S
Aroclor 1260	0.207	0.304	0.119	0	173	22	163	0.195	5.8	59	JS
Surr: Tetrachloro-m-xylene	0.0394	0	0.0358	0	110	44	134	0		0	
Surr: Decachlorobiphenyl	0.0453	0	0.0358	0	127	36	141	0		0	

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0708142-006AMSD	SampType: MSD	TestCode: 8082S	Units: mg/Kg-dry	Prep Date: 8/27/07	RunNo: 10922
Client ID: SED4	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298724
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	2.33	0.304	0.119	0	1950	29	167	2.32	0.4	60	S
Aroclor 1260	0.325	0.304	0.119	0	272	22	163	0.322	0.7	59	S
Surr: Tetrachloro-m-xylene	0.0400	0	0.0358	0	112	44	134	0		0	
Surr: Decachlorobiphenyl	0.0495	0	0.0358	0	138	36	141	0		0	

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MSB-6087	SampType: MSB	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10921						
Client ID: ZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298706						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0672	0.0170	0.0667	0	101	60	140				
Aroclor 1260	0.0793	0.0170	0.0667	0	119	60	138				
Surr: Tetrachloro-m-xylene	0.0206	0	0.02	0	103	44	134				
Surr: Decachlorobiphenyl	0.0228	0	0.02	0	114	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MSB-6087	SampType: MSB	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10922						
Client ID: ZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298719						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0715	0.0170	0.0667	0	107	60	140				
Aroclor 1260	0.0766	0.0170	0.0667	0	115	60	138				
Surr: Tetrachloro-m-xylene	0.0263	0	0.02	0	132	44	134				
Surr: Decachlorobiphenyl	0.0230	0	0.02	0	115	36	141				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Practical Quantitation Limit (PQL)
- U Not Detected at the MDC or RL
- E Value exceeds the instrument calibration range
- R RPD exceeds accepted precision limit
- J Analyte detected below the PQL
- S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-6087	SampType: LCS	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10921
Client ID: ZZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298705
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0669	0.0170	0.0667	0	100	60	140				
Aroclor 1260	0.0790	0.0170	0.0667	0	118	60	138				
Surr: Tetrachloro-m-xylene	0.0202	0	0.02	0	101	44	134				
Surr: Decachlorobiphenyl	0.0226	0	0.02	0	113	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-6087	SampType: LCS	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10922						
Client ID: ZZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298718						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0707	0.0170	0.0667	0	106	60	140				
Aroclor 1260	0.0759	0.0170	0.0667	0	114	60	138				
Surr: Tetrachloro-m-xylene	0.0257	0	0.02	0	128	44	134				
Surr: Decachlorobiphenyl	0.0227	0	0.02	0	114	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-6138	SampType: LCS	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11004						
Client ID: ZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300933						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0756	0.0170	0.0667	0	113	60	140				
Aroclor 1260	0.0804	0.0170	0.0667	0	120	60	138				
Surr: Tetrachloro-m-xylene	0.0214	0	0.02	0	107	40	140				
Surr: Decachlorobiphenyl	0.0236	0	0.02	0	118	40	140				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCS-6138	SampType: LCS	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11005						
Client ID: ZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300951						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0710	0.0170	0.0667	0	106	60	140				
Aroclor 1260	0.0765	0.0170	0.0667	0	115	60	138				
Surr: Tetrachloro-m-xylene	0.0265	0	0.02	0	132	40	140				
Surr: Decachlorobiphenyl	0.0226	0	0.02	0	113	40	140				

Qualifiers: B Analyte detected in the associated Method Blank
ND Not Detected at the Practical Quantitation Limit (PQL)
U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
R RPD exceeds accepted precision limit

J Analyte detected below the PQL
S Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCSD-6138	SampType: LCSD	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11004						
Client ID: ZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300934						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0714	0.0170	0.0667	0	107	60	140	0.0756	5.8	60	
Aroclor 1260	0.0797	0.0170	0.0667	0	119	60	138	0.0804	0.8	59	
Surr: Tetrachloro-m-xylene	0.0211	0	0.02	0	105	40	140	0		0	
Surr: Decachlorobiphenyl	0.0233	0	0.02	0	116	40	140	0		0	

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: LCSD-6138	SampType: LCSD	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11005						
Client ID: ZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300952						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.0705	0.0170	0.0667	0	106	60	140	0.071	0.6	60	
Aroclor 1260	0.0760	0.0170	0.0667	0	114	60	138	0.0765	0.7	59	
Surr: Tetrachloro-m-xylene	0.0262	0	0.02	0	131	40	140	0		0	
Surr: Decachlorobiphenyl	0.0225	0	0.02	0	112	40	140	0		0	

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

MB-6087

Lab Name: Life Science Laboratories Contract: _____Lab Code: LSLB Case No.: OBG-ALBAN SAS No.: _____ SDG No.: 0708142Lab Sample ID: MB-6087 Lab File ID: 082904.rstMatrix: (soil/water) S Extraction: (Type) SONCSulfur Cleanup: (Y/N) N Date Extracted: 8/27/2007Date Analyzed (1): 8/29/2007 Date Analyzed (2): 8/29/2007Time Analyzed (1): 11:31 Time Analyzed (2): 11:00Instrument ID (1): GC90 20C Instrument ID (2): GC90 20DGC Column (1): DB-608 ID: 0.5 (mm) GC Column (2): DB-1701 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LCS-6087	LCS-6087	8/29/2007	8/29/2007
2	MSB-6087	MSB-6087	8/29/2007	8/29/2007
3	SED2	0708142-004A	8/29/2007	8/29/2007
4	SED3	0708142-005A	8/29/2007	8/29/2007
5	SED4	0708142-006A	8/29/2007	8/29/2007
6	SED4MS	0708142-006AMS	8/29/2007	8/29/2007
7	SED4MSD	0708142-006AMSD	8/29/2007	8/29/2007

COMMENTS:

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MB-6087	SampType: MBLK	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10921						
Client ID: ZZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298704						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.0170									
Aroclor 1221	ND	0.0170									
Aroclor 1232	ND	0.0170									
Aroclor 1242	ND	0.0170									
Aroclor 1248	ND	0.0170									
Aroclor 1254	ND	0.0170									
Aroclor 1260	ND	0.0170									
Surr: Tetrachloro-m-xylene	0.0198	0	0.02	0	99	44	134				
Surr: Decachlorobiphenyl	0.0218	0	0.02	0	109	36	141				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MB-6087	SampType: MBLK	TestCode: 8082S	Units: mg/Kg	Prep Date: 8/27/07	RunNo: 10922
Client ID: ZZZZZ	Batch ID: 6087	Method: SW8082	(SW3550B)	Analysis Date: 8/29/07	SeqNo: 298717
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701			

Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0170									
Aroclor 1221	ND	0.0170									
Aroclor 1232	ND	0.0170									
Aroclor 1242	ND	0.0170									
Aroclor 1248	ND	0.0170									
Aroclor 1254	ND	0.0170									
Aroclor 1260	ND	0.0170									
Surr: Tetrachloro-m-xylene	0.0250	0	0.02	0	125	44	134				
Surr: Decachlorobiphenyl	0.0218	0	0.02	0	109	36	141				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Practical Quantitation Limit (PQL)
 U Not Detected at the MDC or RL

E Value exceeds the instrument calibration range
 R RPD exceeds accepted precision limit

J Analyte detected below the PQL
 S Spike Recovery outside accepted recovery limits

MB-6138

Lab Name: Life Science Laboratories Contract: _____Lab Code: LSLE Case No.: OBG-ALBANSAS No.: _____ SDG No.: 0708142Lab Sample ID: MB-6138 Lab File ID: 090704.rstMatrix: (soil/water) S Extraction: (Type) SOXHSulfur Cleanup: (Y/N) N Date Extracted: 9/5/2007Date Analyzed (1): 9/7/2007 Date Analyzed (2): 9/7/2007Time Analyzed (1): 16:58 Time Analyzed (2): 16:27Instrument ID (1): GC90 20C Instrument ID (2): GC90 20DGC Column (1): DB-608 ID: 0.5 (mm) GC Column (2): DB-1701 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LCS-6138	LCS-6138	9/7/2007	9/7/2007
2	LCSD-6138	LCSD-6138	9/7/2007	9/7/2007
3	KL-Amph1	0708142-009A	9/7/2007	9/7/2007
4	KL-Fish 1	0708142-007A	9/10/2007	9/10/2007
5	KL-Fish 2	0708142-008A	9/10/2007	9/10/2007

COMMENTS: _____

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082
Work Order: 0708142
Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MB-6138	SampType: MBLK	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11004						
Client ID: ZZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300932						
Instrument: GC90_20C	ColumnID: DB-608	J&W DB-608, 0.82 df									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.0170									
Aroclor 1221	ND	0.0170									
Aroclor 1232	ND	0.0170									
Aroclor 1242	ND	0.0170									
Aroclor 1248	ND	0.0170									
Aroclor 1254	ND	0.0170									
Aroclor 1260	ND	0.0170									
Aroclor 1262	ND	0.0170									
Aroclor 1268	ND	0.0170									
Surr: Tetrachloro-m-xylene	0.0209	0	0.02	0	104	40	140				
Surr: Decachlorobiphenyl	0.0224	0	0.02	0	112	40	140				

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits
 U Not Detected at the MDC or RL

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ANALYTICAL QC SUMMARY REPORT

Method: SW8082

Work Order: 0708142

Project: Kessman Landfill

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: MB-6138	SampType: MBLK	TestCode: 8082SX	Units: mg/Kg	Prep Date: 9/5/2007	RunNo: 11005						
Client ID: ZZZZ	Batch ID: 6138	Method: SW8082	(SW3540C)	Analysis Date: 9/7/2007	SeqNo: 300950						
Instrument: GC90_20D	ColumnID: DB-1701	J&W DB-1701									
Analyte	QC Sample Result	PQL	SPK Added	Parent Sample Result	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0170									
Aroclor 1221	ND	0.0170									
Aroclor 1232	ND	0.0170									
Aroclor 1242	ND	0.0170									
Aroclor 1248	ND	0.0170									
Aroclor 1254	ND	0.0170									
Aroclor 1260	ND	0.0170									
Aroclor 1262	ND	0.0170									
Aroclor 1268	ND	0.0170									
Surr: Tetrachloro-m-xylene	0.0257	0	0.02	0	129	40	140				
Surr: Decachlorobiphenyl	0.0219	0	0.02	0	110	40	140				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- ND Not Detected at the Practical Quantitation Limit (PQL)
- R RPD exceeds accepted precision limit
- S Spike Recovery outside accepted recovery limits
- U Not Detected at the MDC or RL

END OF REPORTS