



2975 Bee Ridge Road
Suite C
Sarasota, FL 34239
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received
John
1/21/02
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January 9, 2002

Patricia Simmons Pierre
Central New York Remedial Section
New York Remediation Branch
Emergency and Remedial Response Division
U.S. Environmental Protection Agency, Region II
20th Floor, 290 Broadway
New York, New York 10007

**Subject: Quarterly Progress Report - 4Q01
Operations and Maintenance and Long Term-Monitoring Activities
PAS Site, Oswego, NY**

Dear Ms. Simmons:

The January 2002 Quarterly Progress Report is submitted under Consent Decree 98-CV0112NPMGJD for operation, maintenance, and long-term monitoring activities at the PAS Site in Oswego, New York (Consent Decree) is attached. This attached Progress Report, which covers the period October through December 2001, conforms with requirements of Paragraph 30 of the Consent Decree, which was entered on August 10, 1998.

If you have any questions, please call me at (941) 926-7929.

Sincerely,
de maximis, inc.

A handwritten signature in black ink, appearing to read 'Mark Valentine', is written over the typed name.

Mark Valentine

cc: Performing Settling Defendants
L. McDavid, USEPA
G. Rider, NYSDEC, Division of Hazardous Waste Remediation
R. Parker, NYSDEC, Region 7 Office
D. Geraghty, NYDOH, Office of Public Health

QUARTERLY PROGRESS REPORT
Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: *Pollution Abatement Services Site
Oswego, New York*

PERIOD COVERED: OCTOBER - DECEMBER 2001

ACTIONS TAKEN DURING PREVIOUS QUARTER (OCT - DEC 2001):

- Removal activities were conducted at the PAS Oswego Site in accordance with the Operation, Maintenance and Long-term Monitoring Activities Plan (BBL, 1998) (Work Plan). A total of 37,068 gallons of leachate was removed during the period October through December of 2001. Specific quantities of leachate removed during each month, along with removal dates and manifest numbers, are described in this progress report under the section entitled "Documentation of Removal Activities". Subsequent to each of these events, leachate and ground water was disposed of at the BFI/CECOS Niagara Falls, New York, disposal facility. Buffalo Fuels Corporation was the transportation subcontractor for OBG leachate removal activities.
- Routine ground-water elevation monitoring was performed on October 1 and 15, November 5, and 19, December 3 and 17, 2001.
- On November 5, 2001, quarterly ground-water elevation monitoring was also performed. Quarterly ground-water elevation results for the M-series and LR-series monitoring wells indicated upward vertical gradients calculated for the leachate collection well LCW-4 area were less than 1.5 feet per foot. Therefore leachate removal activities were conducted at LCW locations (including LCW-4) during the period October through December 2001, in accordance with the November 15, 1999 leachate removal protocol.
- The semi-annual ground water and leachate quality sampling was conducted on November 6 and 7, 2001. A summary of these sampling results, along with historical sampling results, is presented in Figure 1, as attached. The Laboratory Report, along with data validation results, are included in this quarterly report.
- Site maintenance activities were conducted on October 15, November 19, and December 17, 2001, which included inspection of spill control materials, perimeter fencing, and monitoring wells, as well as cleanup of the storage shed and clearing of any debris accumulated in the concrete surface drainage trenches. Also completed in December was the removal of a tree felled by winds, repair of the fence damaged by the tree, as well as minor repairs to the roof and rear door of the leachate collection tank. These maintenance activities were performed in accordance with the approved Work Plan.
- The PSDs are awaiting a response from USEPA on the revised draft version of the Environmental Protection Easement and Restrictive Covenant provided to USEPA on June 7, 2001.

EPA has
not provided
this document
to DEC.
JES
2/4/02

ACTION ITEMS FOR FOLLOWING QUARTER (JAN - MAR 2002):

- OMM activities will be performed in January, February, and March 2002, in accordance with the approved Work Plan. The OMM activities include pumping 15,000 gallons of leachate during the first week of the month, or whatever volume can be efficiently removed during a one-day pumping event, up to 15,000 gallons. The ground-water slurry wall wells and leachate wells will be monitored during the beginning of the third week of the month. If leachate elevations measured during the third week indicate that an additional 10,000 gallons of removable leachate has accumulated in the collection trenches, then a contingency removal event will be promptly scheduled to remove the 10,000 gallons of additional leachate.
- Quarterly ground-water elevation monitoring will be conducted on February 5, 2002.
- Routine maintenance activities will be conducted, including inspection of spill control materials and perimeter fence. Snow removal will be performed on an as needed basis throughout the following quarter. These maintenance activities will be performed in accordance with the approved Work Plan.

- The schedule for leachate removal events and tasks is provided below.

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (1st Quarter 2002)							
	January 2002 Removal Events		February 2002 Removal Events		March 2002 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Pre-Pumping Monitoring	Jan 7	Jan 21	Feb 4	Feb 18	Mar 4	Mar 18	LCW- and SWW- Series Wells for Jan, Feb, Mar LCW-, SWW-, M-, and LR- Series Wells for Febv. (first event only).
Removal	Jan 9	Jan 23	Feb 6	Feb 20	Mar 6	Mar 20	Remove leachate from LCW-1, -2, -3, and -4 wells.

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (2nd Quarter 2002)							
	April 2002 Removal Events		May 2002 Removal Events		June 2002 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Pre-Pumping Monitoring	Apr 1	Apr 15	May 6	May 20	Jun 3	Jun 17	LCW- and SWW- Series Wells for Apr, May, Jun. LCW-, SWW-, M-, and LR- Series Wells for May. (first event only).
Removal	Apr 3	Apr 17	May 8	May 22	Jun 5	Jun 19	Remove leachate from LCW-1, -2, -3, and -4 wells.

ANTICIPATED DELAYS/PROBLEMS:

- None

RESULTS OF FIELD ACTIVITIES:

- Ground-water elevation data collected on October 1 and 15, November 5 and 19, and December 3 and 17, 2001 are attached, along with SWW-series monitoring well charts for the last 12 months. (See Attachment 1).
- The routine leachate disposal and site inspection checklists are attached (See Attachment 2).
- The November 2001 semi-annual sampling results are attached, along with Figure 1, Historical Concentrations of VOCs of Concern Detected in Consent Decree Wells (See Attachment 5).

DOCUMENTATION OF REMOVAL ACTIVITIES DURING PREVIOUS QUARTER:

- Hazardous Waste Manifests (See Attachment 3)
- Waste Treatment/Disposal Certifications (See Attachment 4)

OCTOBER 2001

October 3, 2001

Manifest #	Amount (gal)	Date Removed
NYG2534562	5,240	10/3/01
NYG2534553	4,986	10/3/01

October 4, 2001 Total = 10,226 gallons

October 2001 Total = 10,226 gallons

NOVEMBER 2001

November 7, 2001

Manifest #	Amount (gal)	Date Removed
NYG2534589	5,119	11/7/01
NYG2534571	4,236	11/7/01

November 7, 2001 Total = 9,355 gallons

November 2001 Total = 9,355 gallons

DECEMBER 2001

December 5, 2001

Manifest #	Amount (gal)	Date Removed
NYG2534616	4570	12/5/01
NYG2534625	4644	12/5/01

December 5, 2001 Total = 9,214 gallons

December 2001 Total = 9,214 gallons

- CUMULATIVE REMOVAL QUANTITIES**

Cumulative gallons removed during quarter
under OMM Plan - *October through December 2001*

28,795

HISTORICAL SUMMARY OF LEACHATE REMOVAL ACTIVITIES

<i>Order/Decree</i>	<i>Disposal Facility/Period</i>	<i>Quantities</i>
1991 IGR Order (2/92 - 10/94)	<i>Dupont:</i> <i>1992 (2/98 - 12/98)</i> <i>1993</i> <i>1994 (1/94-10/94)</i> <i>Subtotal</i>	221,808 337,619 <u>254,898</u> 814,325
1994 IGR Order (10/94 - 10/98)	<i>DuPont:</i> <i>1994 (From 10/94)</i> <i>1995</i> <i>1996 (To 5/96)</i> <i>Subtotal (To 5/96)</i> <i>BFI/CECOS:</i> <i>1996</i> <i>1997</i> <i>1998 (1/98-10/98)</i> <i>Subtotal</i> <i>94 IGR Order Total</i>	50,683 279,164 <u>119,901</u> 449,748 163,446 269,371 <u>207,541</u> 640,358 1,090,106
Final IGR Total		1,904,431
OMM Consent Decree (Beginning 11/98)	<i>BFI/CECOS:</i> <i>1998 (11/98-12/98)</i> <i>1999</i> <i>2000</i> <i>2001</i> <i>OMM Subtotal</i>	18,423 177,710 196,613 <u>130,212</u> 392,746
GRAND TOTAL		2,427,389

- **LEACHATE DISPOSAL DOCUMENTATION**

October 3, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284392	NYG2534562	10/3/01
284393	NYG2534553	10/3/01

November 7, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284465	NYG2534589	11/7/01
284464	NYG2534571	11/7/01

December 5, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284509	NYG2534616	12/5/01
284508	NYG2534625	12/5/01

Note: "Gallons removed" is based upon BFI/CECOS measurement of the "loaded" and "tare" weights as measured at the Niagara Falls, New York facility and shown on the weight tickets included in Attachment 4, and a density of 8.346 pounds per gallon.

LR-6	NOV 1989	MAY 1990	NOV 1990	MAY 1991	NOV 1991	MAY 1992	NOV 1992	MAY 1993	NOV 1993	MAY 1994	NOV 1994	MAY 1995	NOV 1995	MAY 1996	NOV 1996	MAY 1997	NOV 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001
BENZENE	2J	ND	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	2J	2J	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	1J	ND	1J	0.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	1J	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	48	67	49	34	33	14	12	8	10	8	7J	13	7	8	5	4.2J	6	3	9	2	4.2	ND	ND	4.1	ND

M-25	AUG 1994	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001
BENZENE	4J	9	ND	12	6.6	5	10	6	8	6.1	0.99	0.72
TOLUENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95	0.19J
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12J	ND
XYLENES (TOTAL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79	ND
CHLOROBENZENE	1J	3J	ND	6	5.1	ND	6	3J	6	4.8	1.1	2.1
1,1-DICHLOROETHANE	ND	2J	4J	ND	ND	ND	ND	ND	ND	ND	ND	0.12J

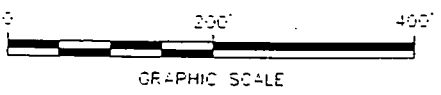
M-26	AUG 1994	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001
BENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

M-21	OCT 1991	OCT 1991(R)	NOV 1991	AUG 1994	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001
BENZENE	39	36	100	7J	5	7	9	8.1	10	27	19	21	26	14	18
TOLUENE	5J	3J	10J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36J	0.48J
ETHYLBENZENE	59	57	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
XYLENES (TOTAL)	250	240	670	30	ND	0.6J	1J	0.6J	ND	1J	ND	ND	ND	0.47J	0.91
CHLOROBENZENE	12	12	34	3J	2J	4J	3.4J	3J	9	6	8	9.8	4.2	6.1	6.1
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3

LR-8	NOV 1989	MAY 1990	NOV 1990	MAY 1991	NOV 1991	MAY 1992	NOV 1992	MAY 1993	NOV 1993	MAY 1994	AUG 1994	AUG 1994(R)	NOV 1994	MAY 1995	NOV 1995	MAY 1996	NOV 1996	MAY 1997	MAY 1998	NOV 1998	MAY 1999	NOV 1999	MAY 2000	NOV 2000	MAY 2001	NOV 2001	
BENZENE	100	32	55	67	84	82	82	84	45	36	46	51	48	42	29	20J	22	33	30	23	29	34	22	33	21	21	
TOLUENE	12	11	138	9J	3J	18J	2J	7	0.6J	0.7J	ND	ND	ND	ND	ND	ND	0.5J	ND	0.51J	ND	ND	ND	ND	ND	0.35J	0.41J	
ETHYLBENZENE	150	69	93	110	55	24	26	87	2J	0.8J	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
XYLENES (TOTAL)	380	200	310	370	1900	2700	370	3900	120	54	87	96	97	29	1J	ND	2J	3J	1.4J	ND	1J	ND	ND	ND	1.1	0.96	1.2
CHLOROBENZENE	23	7	13	16	18	22	23	228	10	20	8J	8J	10	9	9	5	5	6	6.4	6	7	8	7	8.2	7.3	6.3	
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	1.5J	

- EXPLANATION**
- LR-6 LOCATION AND DESIGNATION OF EXISTING BEDROCK MONITORING WELL
 - OD-1 LOCATION AND DESIGNATION OF ABANDONED BEDROCK MONITORING WELL
 - FENCE (SITE BOUNDARY)
 - - - SLURRY WALL
 - ▲ LAND AREAS SUBJECT TO FREQUENT, SHALLOW INUNDATION
 - DESIGNATION OF SAMPLING LOCATION
 - DATE OF SAMPLING EVENT
R=REPLICATE
- CONCENTRATION OF VOC DETECTED IN BEDROCK GROUND WATER, MEASURED IN ug/L.
- ND - NOT DETECTED
J - ESTIMATED CONCENTRATION (LESS THAN SAMPLE QUANTITATION LIMIT)
D - CONCENTRATION CALCULATED FROM SECONDARY DILUTION
B - COMPOUND DETECTED IN QUALITY CONTROL BLANKS

- NOTES:**
- BASE MAP ADAPTED FROM TOPOGRAPHIC MAP DEVELOPED BY LOCKWOOD MAPPING, INC. BASED ON AN APRIL 14, 1993 AERIAL PHOTOGRAPH. SOME WELL AND STREAM-GAUGE LOCATIONS ARE INFERRED; LOCATION OF SLURRY WALL BASED ON SITE PLAN DRAWN BY DUNN GEOSCIENCE CORP., INC. (DEC. 1994), TITLED "BORING, WELL & TEST PIT PLOT PLAN."
 - ANALYTICAL DATA PRIOR TO AUGUST 1994 OBTAINED FROM GOLDER ASSOCIATES, INC. (1993a) AND URS COMPANY, INC. (1994)
 - FIGURE PROVIDED BY ROUX ASSOCIATES, INC. (PROJECT No. 32702M06, FILE D0610002, DATED 3/98) AND PREVIOUSLY PRESENTED IN "REVIEW OF INTERIM GROUNDWATER REMOVAL AND LONG-TERM MONITORING PROGRAM DATA FOR PAS SITE" (MARCH 1998).



POLLUTION ABATEMENT SERVICES SITE
OSWEGO, NEW YORK
OPERATION AND MAINTENANCE AND
LONG-TERM MONITORING PLAN

HISTORICAL CONCENTRATIONS OF VOCs
OF CONCERN DETECTED IN CONSENT
DECREE WELLS (1989-2001)

O'BRIEN & GERE
ENGINEERS INC.

FIGURE
1

LR-21=1, OFF-REF
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LR-21=100, OFF-REF

Analytical Results

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4807
Samp. Description: LCW-2
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

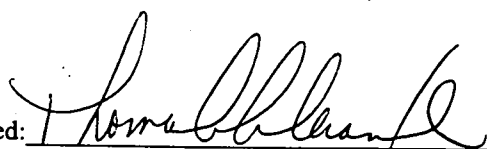
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<20.	20	11/07/01
Vinyl chloride	31.	20	11/07/01
Bromomethane	<20.	20	11/07/01
Chloroethane	J 20.	20	11/07/01
Acetone	<200.	20	11/07/01
1,1-Dichloroethene	<10.	20	11/07/01
Methylene chloride	J 2.9	20	11/07/01
Carbon disulfide	<10.	20	11/07/01
trans-1,2-Dichloroethene	J 2.8	20	11/07/01
1,1-Dichloroethane	53.	20	11/07/01
2-Butanone	<200.	20	11/07/01
cis-1,2-Dichloroethene	34.	20	11/07/01
Chloroform	10.	20	11/07/01
1,2-Dichloroethane	J 4.7	20	11/07/01
1,1,1-Trichloroethane	44.	20	11/07/01
Carbon tetrachloride	<10.	20	11/07/01
Benzene	330.	20	11/07/01
1,2-Dichloropropane	<10.	20	11/07/01
Trichloroethene	100.	20	11/07/01
Bromodichloromethane	<10.	20	11/07/01
cis-1,3-Dichloropropene	<10.	20	11/07/01
4-Methyl-2-pentanone	<100.	20	11/07/01
trans-1,3-Dichloropropene	<10.	20	11/07/01
1,1,2-Trichloroethane	<10.	20	11/07/01
Toluene	28.	20	11/07/01
Dibromochloromethane	<10.	20	11/07/01
2-Hexanone	<100.	20	11/07/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4807
Samp. Description: LCW-2
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

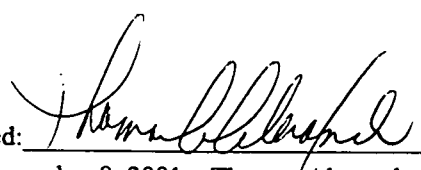
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Tetrachloroethene	65.		20	11/07/01	
Chlorobenzene	78.		20	11/07/01	
Ethylbenzene	230.		20	11/07/01	
Bromoform	<10.		20	11/07/01	
Xylene (total)	280.		20	11/07/01	
Styrene	<10.		20	11/07/01	
1,1,2,2-Tetrachloroethane	<10.		20	11/07/01	
Dibromofluoromethane (surrogate)	106.%	70 - 131	20	11/07/01	
1,2-Dichloroethane-d4 (surrogate)	106.%	81 - 120	20	11/07/01	
Toluene-d8 (surrogate)	101.%	83 - 117	20	11/07/01	
Bromofluorobenzene (surrogate)	102.%	78 - 119	20	11/07/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4808
Samp. Description: LCW-4
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

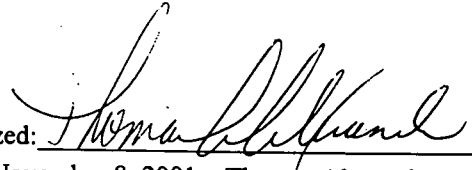
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<50.	50	11/07/01
Vinyl chloride	59.	50	11/07/01
Bromomethane	<50.	50	11/07/01
Chloroethane	J 46.	50	11/07/01
Acetone	J 410.	50	11/07/01
1,1-Dichloroethene	<25.	50	11/07/01
Methylene chloride	J 6.8	50	11/07/01
Carbon disulfide	<25.	50	11/07/01
trans-1,2-Dichloroethene	<25.	50	11/07/01
1,1-Dichloroethane	48.	50	11/07/01
2-Butanone	<500.	50	11/07/01
cis-1,2-Dichloroethene	190.	50	11/07/01
Chloroform	J 5.4	50	11/07/01
1,2-Dichloroethane	J 11.	50	11/07/01
1,1,1-Trichloroethane	<25.	50	11/07/01
Carbon tetrachloride	<25.	50	11/07/01
Benzene	300.	50	11/07/01
1,2-Dichloropropane	<25.	50	11/07/01
Trichloroethene	<25.	50	11/07/01
Bromodichloromethane	<25.	50	11/07/01
cis-1,3-Dichloropropene	<25.	50	11/07/01
4-Methyl-2-pentanone	J 76.	50	11/07/01
trans-1,3-Dichloropropene	<25.	50	11/07/01
1,1,2-Trichloroethane	<25.	50	11/07/01
Toluene	400.	50	11/07/01
Dibromochloromethane	<25.	50	11/07/01
2-Hexanone	<250.	50	11/07/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4808
Samp. Description: LCW-4
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

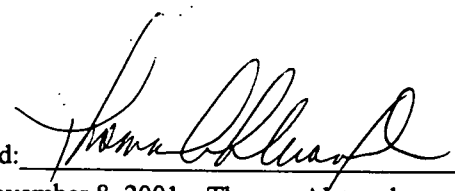
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Tetrachloroethene	<25.		50	11/07/01
Chlorobenzene	230.		50	11/07/01
Ethylbenzene	870.		50	11/07/01
Bromoform	<25.		50	11/07/01
Xylene (total)	1700.		50	11/07/01
Styrene	<25.		50	11/07/01
1,1,2,2-Tetrachloroethane	<25.		50	11/07/01
Dibromofluoromethane (surrogate)	104. %	70 - 131	50	11/07/01
1,2-Dichloroethane-d4 (surrogate)	106. %	81 - 120	50	11/07/01
Toluene-d8 (surrogate)	101. %	83 - 117	50	11/07/01
Bromofluorobenzene (surrogate)	104. %	78 - 119	50	11/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4809
Samp. Description: Rinse Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

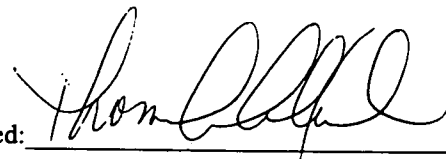
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<1.0	1	11/07/01
Vinyl chloride	<1.0	1	11/07/01
Bromomethane	<1.0	1	11/07/01
Chloroethane	<1.0	1	11/07/01
Acetone	<10.	1	11/07/01
1,1-Dichloroethene	<.50	1	11/07/01
Methylene chloride	J .15	1	11/07/01
Carbon disulfide	<.50	1	11/07/01
trans-1,2-Dichloroethene	<.50	1	11/07/01
1,1-Dichloroethane	<.50	1	11/07/01
2-Butanone	<10.	1	11/07/01
cis-1,2-Dichloroethene	<.50	1	11/07/01
Chloroform	<.50	1	11/07/01
1,2-Dichloroethane	<.50	1	11/07/01
1,1,1-Trichloroethane	<.50	1	11/07/01
Carbon tetrachloride	<.50	1	11/07/01
Benzene	<.50	1	11/07/01
1,2-Dichloropropane	<.50	1	11/07/01
Trichloroethene	<.50	1	11/07/01
Bromodichloromethane	<.50	1	11/07/01
cis-1,3-Dichloropropene	<.50	1	11/07/01
4-Methyl-2-pentanone	<5.0	1	11/07/01
trans-1,3-Dichloropropene	<.50	1	11/07/01
1,1,2-Trichloroethane	<.50	1	11/07/01
Toluene	.93	1	11/07/01
Dibromochloromethane	<.50	1	11/07/01
2-Hexanone	<5.0	1	11/07/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4809
Samp. Description: Rinse Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Tetrachloroethene	<.50			1	11/07/01
Chlorobenzene	<.50			1	11/07/01
Ethylbenzene	J .16			1	11/07/01
Bromoform	<.50			1	11/07/01
Xylene (total)	1.2			1	11/07/01
Styrene	J .45			1	11/07/01
1,1,2,2-Tetrachloroethane	<.50			1	11/07/01
Dibromofluoromethane (surrogate)	104.%	70 - 131		1	11/07/01
1,2-Dichloroethane-d4 (surrogate)	106.%	81 - 120		1	11/07/01
Toluene-d8 (surrogate)	103.%	83 - 117		1	11/07/01
Bromofluorobenzene (surrogate)	104.%	78 - 119		1	11/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4810
Samp. Description: LR-6
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

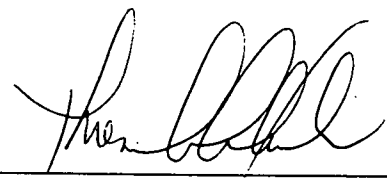
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	11/07/01	
Vinyl chloride	1.3		1	11/07/01	
Bromomethane	<1.0		1	11/07/01	
Chloroethane	1.2		1	11/07/01	
Acetone	<10.		1	11/07/01	
1,1-Dichloroethene	<.50		1	11/07/01	
Methylene chloride	<2.0		1	11/07/01	
Carbon disulfide	<.50		1	11/07/01	
trans-1,2-Dichloroethene	<.50		1	11/07/01	
1,1-Dichloroethane	4.1		1	11/07/01	
2-Butanone	<10.		1	11/07/01	
cis-1,2-Dichloroethene	J .10		1	11/07/01	
Chloroform	<.50		1	11/07/01	
1,2-Dichloroethane	J .21		1	11/07/01	
1,1,1-Trichloroethane	<.50		1	11/07/01	
Carbon tetrachloride	<.50		1	11/07/01	
Benzene	<.50		1	11/07/01	
1,2-Dichloropropane	<.50		1	11/07/01	
Trichloroethene	J .22		1	11/07/01	
Bromodichloromethane	<.50		1	11/07/01	
cis-1,3-Dichloropropene	<.50		1	11/07/01	
4-Methyl-2-pentanone	<5.0		1	11/07/01	
trans-1,3-Dichloropropene	<.50		1	11/07/01	
1,1,2-Trichloroethane	<.50		1	11/07/01	
Toluene	<.50		1	11/07/01	
Dibromochloromethane	<.50		1	11/07/01	
2-Hexanone	<5.0		1	11/07/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4810
Samp. Description: LR-6
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

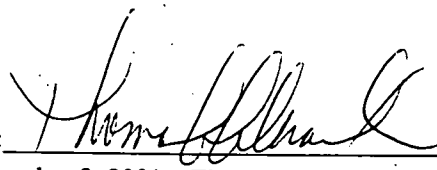
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Tetrachloroethene	<.50			1	11/07/01
Chlorobenzene	<.50			1	11/07/01
Ethylbenzene	<.50			1	11/07/01
Bromoform	<.50			1	11/07/01
Xylene (total)	<.50			1	11/07/01
Styrene	<.50			1	11/07/01
1,1,2,2-Tetrachloroethane	<.50			1	11/07/01
Dibromofluoromethane (surrogate)	101. %	70 - 131		1	11/07/01
1,2-Dichloroethane-d4 (surrogate)	102. %	81 - 120		1	11/07/01
Toluene-d8 (surrogate)	99. %	83 - 117		1	11/07/01
Bromofluorobenzene (surrogate)	94. %	78 - 119		1	11/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4811
Samp. Description: LR-8
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

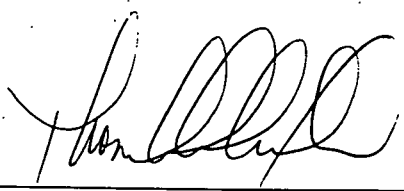
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	11/08/01	
Vinyl chloride	<1.0		1	11/08/01	
Bromomethane	<1.0		1	11/08/01	
Chloroethane	6.6		1	11/08/01	
Acetone	<10.		1	11/08/01	
1,1-Dichloroethene	<.50		1	11/08/01	
Methylene chloride	J .20		1	11/08/01	
Carbon disulfide	<.50		1	11/08/01	
trans-1,2-Dichloroethene	<.50		1	11/08/01	
1,1-Dichloroethane	J .15		1	11/08/01	
2-Butanone	<10.		1	11/08/01	
cis-1,2-Dichloroethene	<.50		1	11/08/01	
Chloroform	<.50		1	11/08/01	
1,2-Dichloroethane	<.50		1	11/08/01	
1,1,1-Trichloroethane	<.50		1	11/08/01	
Carbon tetrachloride	<.50		1	11/08/01	
Benzene	21.		1	11/08/01	
1,2-Dichloropropane	<.50		1	11/08/01	
Trichloroethene	<.50		1	11/08/01	
Bromodichloromethane	<.50		1	11/08/01	
cis-1,3-Dichloropropene	<.50		1	11/08/01	
4-Methyl-2-pentanone	<5.0		1	11/08/01	
trans-1,3-Dichloropropene	<.50		1	11/08/01	
1,1,2-Trichloroethane	<.50		1	11/08/01	
Toluene	J .41		1	11/08/01	
Dibromochloromethane	<.50		1	11/08/01	
2-Hexanone	<5.0		1	11/08/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4811
Samp. Description: LR-8
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

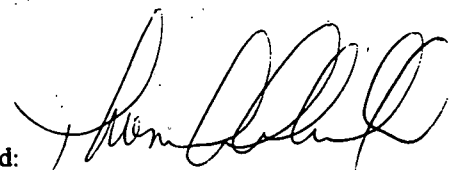
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Tetrachloroethene	<.50		1	11/08/01	
Chlorobenzene	6.3		1	11/08/01	
Ethylbenzene	<.50		1	11/08/01	
Bromoform	<.50		1	11/08/01	
Xylene (total)	1.2		1	11/08/01	
Styrene	<.50		1	11/08/01	
1,1,2,2-Tetrachloroethane	<.50		1	11/08/01	
Dibromofluoromethane (surrogate)	99.%	70 - 131	1	11/08/01	
1,2-Dichloroethane-d4 (surrogate)	103.%	81 - 120	1	11/08/01	
Toluene-d8 (surrogate)	95.%	83 - 117	1	11/08/01	
Bromofluorobenzene (surrogate)	96.%	78 - 119	1	11/08/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4812
Samp. Description: M21
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

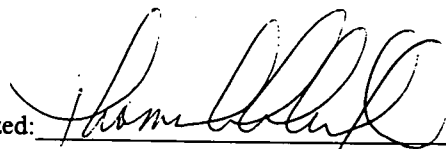
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	11/07/01	
Vinyl chloride	<1.0		1	11/07/01	
Bromomethane	<1.0		1	11/07/01	
Chloroethane	7.3		1	11/07/01	
Acetone	<10.		1	11/07/01	
1,1-Dichloroethene	<.50		1	11/07/01	
Methylene chloride	J .17		1	11/07/01	
Carbon disulfide	<.50		1	11/07/01	
trans-1,2-Dichloroethene	<.50		1	11/07/01	
1,1-Dichloroethane	1.3		1	11/07/01	
2-Butanone	<10.		1	11/07/01	
cis-1,2-Dichloroethene	<.50		1	11/07/01	
Chloroform	<.50		1	11/07/01	
1,2-Dichloroethane	<.50		1	11/07/01	
1,1,1-Trichloroethane	<.50		1	11/07/01	
Carbon tetrachloride	<.50		1	11/07/01	
Benzene	18.		1	11/07/01	
1,2-Dichloropropane	<.50		1	11/07/01	
Trichloroethene	<.50		1	11/07/01	
Bromodichloromethane	<.50		1	11/07/01	
cis-1,3-Dichloropropene	<.50		1	11/07/01	
4-Methyl-2-pentanone	<5.0		1	11/07/01	
trans-1,3-Dichloropropene	<.50		1	11/07/01	
1,1,2-Trichloroethane	<.50		1	11/07/01	
Toluene	J .48		1	11/07/01	
Dibromochloromethane	<.50		1	11/07/01	
2-Hexanone	<5.0		1	11/07/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4812
Samp. Description: M21
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

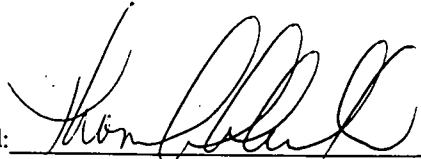
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Tetrachloroethene	<.50		1	11/07/01	
Chlorobenzene	6.1		1	11/07/01	
Ethylbenzene	<.50		1	11/07/01	
Bromoform	<.50		1	11/07/01	
Xylene (total)	.91		1	11/07/01	
Styrene	<.50		1	11/07/01	
1,1,2,2-Tetrachloroethane	<.50		1	11/07/01	
Dibromofluoromethane (surrogate)	99. %	70 - 131	1	11/07/01	
1,2-Dichloroethane-d4 (surrogate)	104. %	81 - 120	1	11/07/01	
Toluene-d8 (surrogate)	97. %	83 - 117	1	11/07/01	
Bromofluorobenzene (surrogate)	99. %	78 - 119	1	11/07/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America

Project: PAS Site - Oswego, NY

Proj. Desc:

Package#: 412

Sample: T4813

Samp. Description: M-26

Instrument: HP5973 GCMS#3

Units: ug/L

Number of analytes: 38

Job No.: 3027.333.31201

Certification NY No.: 10155

Collected: 11/06/01

Received: 11/07/01

Prepared: 11/08/01

Matrix: Water

QC Batch: 110801W1

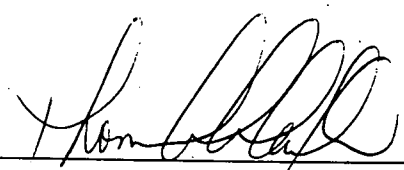
%Solids:

Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed Notes
		Limits	Dilution	
Chloromethane	<1.0		1	11/08/01
Vinyl chloride	<1.0		1	11/08/01
Bromomethane	<1.0		1	11/08/01
Chloroethane	<1.0		1	11/08/01
Acetone	<10.		1	11/08/01
1,1-Dichloroethene	<.50		1	11/08/01
Methylene chloride	<2.0		1	11/08/01
Carbon disulfide	<.50		1	11/08/01
trans-1,2-Dichloroethene	<.50		1	11/08/01
1,1-Dichloroethane	<.50		1	11/08/01
2-Butanone	<10.		1	11/08/01
cis-1,2-Dichloroethene	<.50		1	11/08/01
Chloroform	<.50		1	11/08/01
1,2-Dichloroethane	<.50		1	11/08/01
1,1,1-Trichloroethane	<.50		1	11/08/01
Carbon tetrachloride	<.50		1	11/08/01
Benzene	<.50		1	11/08/01
1,2-Dichloropropane	<.50		1	11/08/01
Trichloroethene	<.50		1	11/08/01
Bromodichloromethane	<.50		1	11/08/01
cis-1,3-Dichloropropene	<.50		1	11/08/01
4-Methyl-2-pentanone	<5.0		1	11/08/01
trans-1,3-Dichloropropene	<.50		1	11/08/01
1,1,2-Trichloroethane	<.50		1	11/08/01
Toluene	<.50		1	11/08/01
Dibromochloromethane	<.50		1	11/08/01
2-Hexanone	<5.0		1	11/08/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4813
Samp. Description: M-26
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

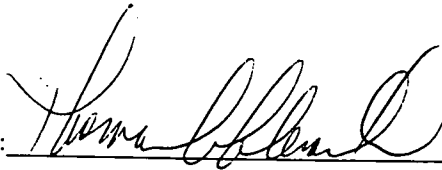
Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Tetrachloroethene	<.50		1	11/08/01	
Chlorobenzene	<.50		1	11/08/01	
Ethylbenzene	<.50		1	11/08/01	
Bromoform	<.50		1	11/08/01	
Xylene (total)	<.50		1	11/08/01	
Styrene	<.50		1	11/08/01	
1,1,2,2-Tetrachloroethane	<.50		1	11/08/01	
Dibromofluoromethane (surrogate)	103. %	70 - 131	1	11/08/01	
1,2-Dichloroethane-d4 (surrogate)	108. %	81 - 120	1	11/08/01	
Toluene-d8 (surrogate)	97. %	83 - 117	1	11/08/01	
Bromofluorobenzene (surrogate)	92. %	78 - 119	1	11/08/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4814
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<1.0	1	11/07/01
Vinyl chloride	<1.0	1	11/07/01
Bromomethane	<1.0	1	11/07/01
Chloroethane	<1.0	1	11/07/01
Acetone	<10.	1	11/07/01
1,1-Dichloroethene	<.50	1	11/07/01
Methylene chloride	<2.0	1	11/07/01
Carbon disulfide	<.50	1	11/07/01
trans-1,2-Dichloroethene	<.50	1	11/07/01
1,1-Dichloroethane	<.50	1	11/07/01
2-Butanone	<10.	1	11/07/01
cis-1,2-Dichloroethene	<.50	1	11/07/01
Chloroform	J .10	1	11/07/01
1,2-Dichloroethane	<.50	1	11/07/01
1,1,1-Trichloroethane	<.50	1	11/07/01
Carbon tetrachloride	<.50	1	11/07/01
Benzene	<.50	1	11/07/01
1,2-Dichloropropane	<.50	1	11/07/01
Trichloroethene	<.50	1	11/07/01
Bromodichloromethane	<.50	1	11/07/01
cis-1,3-Dichloropropene	<.50	1	11/07/01
4-Methyl-2-pentanone	<5.0	1	11/07/01
trans-1,3-Dichloropropene	<.50	1	11/07/01
1,1,2-Trichloroethane	<.50	1	11/07/01
Toluene	<.50	1	11/07/01
Dibromochloromethane	<.50	1	11/07/01
2-Hexanone	<5.0	1	11/07/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 412
Sample: T4814
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/06/01 Matrix: Water
Received: 11/07/01 QC Batch: 110701W1
Prepared: 11/07/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Tetrachloroethene	<.50		1	11/07/01
Chlorobenzene	<.50		1	11/07/01
Ethylbenzene	<.50		1	11/07/01
Bromoform	<.50		1	11/07/01
Xylene (total)	<.50		1	11/07/01
Styrene	<.50		1	11/07/01
1,1,2,2-Tetrachloroethane	<.50		1	11/07/01
Dibromofluoromethane (surrogate)	103.%	70 - 131	1	11/07/01
1,2-Dichloroethane-d4 (surrogate)	106.%	81 - 120	1	11/07/01
Toluene-d8 (surrogate)	95.%	83 - 117	1	11/07/01
Bromofluorobenzene (surrogate)	92.%	78 - 119	1	11/07/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 8, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 421
Sample: T4869
Samp. Description: M-25
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

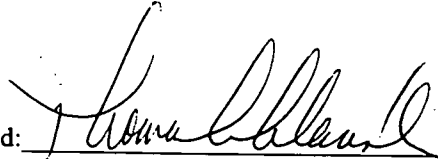
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	11/08/01	
Vinyl chloride	<1.0		1	11/08/01	
Bromomethane	<1.0		1	11/08/01	
Chloroethane	2.1		1	11/08/01	
Acetone	<10.		1	11/08/01	
1,1-Dichloroethene	<.50		1	11/08/01	
Methylene chloride	<2.0		1	11/08/01	
Carbon disulfide	<.50		1	11/08/01	
trans-1,2-Dichloroethene	<.50		1	11/08/01	
1,1-Dichloroethane	J .12		1	11/08/01	
2-Butanone	<10.		1	11/08/01	
cis-1,2-Dichloroethene	<.50		1	11/08/01	
Chloroform	<.50		1	11/08/01	
1,2-Dichloroethane	<.50		1	11/08/01	
1,1,1-Trichloroethane	<.50		1	11/08/01	
Carbon tetrachloride	<.50		1	11/08/01	
Benzene	.72		1	11/08/01	
1,2-Dichloropropane	<.50		1	11/08/01	
Trichloroethene	<.50		1	11/08/01	
Bromodichloromethane	<.50		1	11/08/01	
cis-1,3-Dichloropropene	<.50		1	11/08/01	
4-Methyl-2-pentanone	<5.0		1	11/08/01	
trans-1,3-Dichloropropene	<.50		1	11/08/01	
1,1,2-Trichloroethane	<.50		1	11/08/01	
Toluene	J .19		1	11/08/01	
Dibromochloromethane	<.50		1	11/08/01	
2-Hexanone	<5.0		1	11/08/01	

- Outside control limits- J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 421
Sample: T4869
Samp. Description: M-25
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

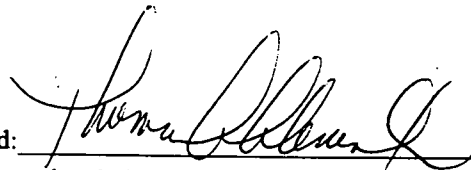
Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Tetrachloroethene	<.50		1	11/08/01	
Chlorobenzene	2.1		1	11/08/01	
Ethylbenzene	<.50		1	11/08/01	
Bromoform	<.50		1	11/08/01	
Xylene (total)	<.50		1	11/08/01	
Styrene	<.50		1	11/08/01	
1,1,2,2-Tetrachloroethane	<.50		1	11/08/01	
Dibromofluoromethane (surrogate)	102.%	70 - 131	1	11/08/01	
1,2-Dichloroethane-d4 (surrogate)	107.%	81 - 120	1	11/08/01	
Toluene-d8 (surrogate)	100.%	83 - 117	1	11/08/01	
Bromofluorobenzene (surrogate)	99.%	78 - 119	1	11/08/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 421
Sample: T4870
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

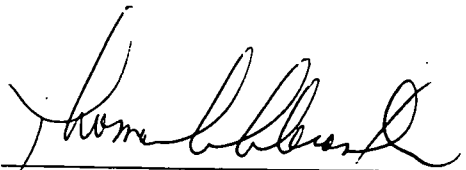
Job No.: 3027.333.31201
Certification NY No.: 10155

Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	11/08/01	
Vinyl chloride	<1.0		1	11/08/01	
Bromomethane	<1.0		1	11/08/01	
Chloroethane	<1.0		1	11/08/01	
Acetone	<10.		1	11/08/01	
1,1-Dichloroethene	<.50		1	11/08/01	
Methylene chloride	<2.0		1	11/08/01	
Carbon disulfide	J .21		1	11/08/01	
trans-1,2-Dichloroethene	<.50		1	11/08/01	
1,1-Dichloroethane	<.50		1	11/08/01	
2-Butanone	<10.		1	11/08/01	
cis-1,2-Dichloroethene	<.50		1	11/08/01	
Chloroform	<.50		1	11/08/01	
1,2-Dichloroethane	<.50		1	11/08/01	
1,1,1-Trichloroethane	<.50		1	11/08/01	
Carbon tetrachloride	<.50		1	11/08/01	
Benzene	<.50		1	11/08/01	
1,2-Dichloropropane	<.50		1	11/08/01	
Trichloroethene	<.50		1	11/08/01	
Bromodichloromethane	<.50		1	11/08/01	
cis-1,3-Dichloropropene	<.50		1	11/08/01	
4-Methyl-2-pentanone	<5.0		1	11/08/01	
trans-1,3-Dichloropropene	<.50		1	11/08/01	
1,1,2-Trichloroethane	<.50		1	11/08/01	
Toluene	<.50		1	11/08/01	
Dibromochloromethane	<.50		1	11/08/01	
2-Hexanone	<5.0		1	11/08/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

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

**Analytical Results
Method: 8260**

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:
Package#: 421
Sample: T4870
Samp. Description: QC Trip Blank
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 38

Job No.: 3027.333.31201
Certification NY No.: 10155

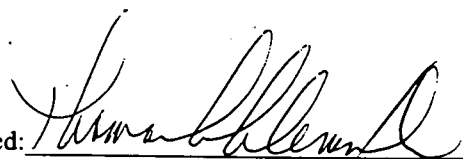
Collected: 11/07/01 Matrix: Water
Received: 11/07/01 QC Batch: 110801W1
Prepared: 11/08/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Tetrachloroethene	<.50		1	11/08/01
Chlorobenzene	<.50		1	11/08/01
Ethylbenzene	<.50		1	11/08/01
Bromoform	<.50		1	11/08/01
Xylene (total)	<.50		1	11/08/01
Styrene	<.50		1	11/08/01
1,1,2,2-Tetrachloroethane	<.50		1	11/08/01
Dibromofluoromethane (surrogate)	107.%	70 - 131	1	11/08/01
1,2-Dichloroethane-d4 (surrogate)	107.%	81 - 120	1	11/08/01
Toluene-d8 (surrogate)	102.%	83 - 117	1	11/08/01
Bromofluorobenzene (surrogate)	98.%	78 - 119	1	11/08/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 
Date: November 9, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Spectra GRAPHICS

Review of the Quarterly Report
PAS 738001. OCT-DEC 2001.

- Pumpouts - OIC
- Site Graphs showing level of ground water inside slurry wall & outside slurry wall were reviewed. With drought / low water conditions, continue to watch.
- Analytical of Wells was consistent w/ Past sampling. LCW (Leachate Collection Water?) is contaminated so it continues to be manifested for trucking.

I stop Boxed much of the analytical backup. With results consistent w/ past sampling, I saw no reason to keep Raw Data and Lab work.

JL Strang
2/4/02

1892 Central Avenue • Colonie Plaza • Albany, NY 12205

TEL: 5 1 8 - 8 6 9 - 0 2 3 2

FAX: 5 1 8 - 8 6 9 - 3 7 1 6

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America
Project: PAS Site - Oswego, NY
Proj. Desc:

Job No.: 3027.333.31201
Certification NY No.: 10155

Package#: 412
Sample: T4807
Samp. Description: LCW-2

Collected: 11/06/01 11:00 Matrix: Water
Received: 11/07/01 07:05

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	25. mg/L	EPA 405.1		11/07/01	110701W12	
COD	170. mg/L	EPA 410.4		11/20/01	112001W11	
Total dissolved solids	1600. mg/L	EPA 160.1		11/09/01	110901W22	
Total organic carbon	53. mg/L	EPA 415.1		11/27/01	112701W11	
Total suspended solids	36. mg/L	EPA 160.2		11/07/01	110701W26	

Notes:

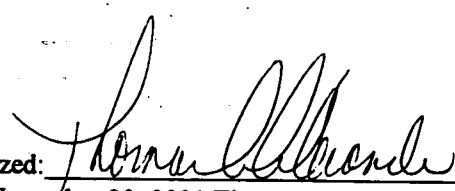
Package#: 412
Sample: T4808
Samp. Description: LCW-4

Collected: 11/06/01 11:15 Matrix: Water
Received: 11/07/01 07:05

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	110. mg/L	EPA 405.1		11/07/01	110701W12	
COD	290. mg/L	EPA 410.4		11/20/01	112001W11	
Total dissolved solids	2400. mg/L	EPA 160.1		11/09/01	110901W22	
Total organic carbon	110. mg/L	EPA 415.1		11/27/01	112701W11	
Total suspended solids	150. mg/L	EPA 160.2		11/07/01	110701W26	

Notes:

J-Estimated value

Authorized: 
Date: November 29, 2001 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

File on eDOCs X
Site Name PAS
Site No. 738001
County Oswego
Town Oswego
Foitable X Yes
File Name 2002-01-09, 04-01 Report