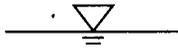


OCT-DEC 2000



*de maximis, inc.*

450 Montbrook Lane  
Knoxville, TN 37919  
(865) 691-5052  
FAX (865) 691-6485  
Acct. FAX (865) 691-9835

January 9, 2001

Patricia Simmons (212) 637-3865  
Central New York Remedial Section  
New York Remediation Branch  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency, Region II  
20<sup>th</sup> Floor, 290 Broadway  
New York, New York 10007

738001

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

Dear Ms. Simmons:

The January 2001 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 2000 through December 2000, 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 (206) 780-6852.

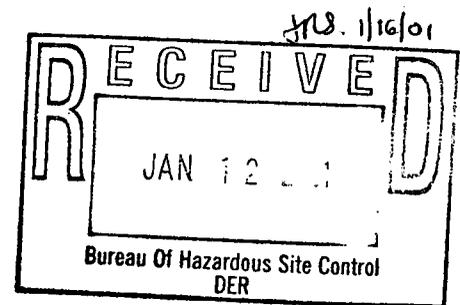
Sincerely,  
*de maximis, inc.*

*Clay McChannon for*

Mark Valentine

MV:CSM:mpl

cc: Performing Settling Defendants  
J. Singerman, U.S. EPA Region II  
~~J. Stony~~ ~~C. Whitfield~~, NYSDEC, Division of Hazardous Waste Remediation  
C. Branagh, NYSDEC, Region 7 Office  
R. Heerkens, NYDOH, Office of Public Health



**QUARTERLY PROGRESS REPORT**  
**Pollution Abatement Services Site, Oswego, New York**  
**January 9, 2001**

**PROJECT NAME:** Pollution Abatement Services Site  
Oswego, New York  
Operation, Maintenance, and Long-Term Monitoring Activities

**PERIOD COVERED:** October—December 2000

**ACTIONS TAKEN TOWARD COMPLIANCE DURING PREVIOUS QUARTER**  
**(OCTOBER—DECEMBER 2000):**

- On July 19, 2000, the Performing Settling Defendants (PSDs) proposed that O'Brien & Gere Operations, Inc. (now known as O'Brien & Gere Inc. of North America) (OBG) replace BBL Environmental Services (BBLES) as the primary remedial contractor for operation, maintenance, and long-term monitoring (OMM) activities conducted at the site. USEPA formally approved the proposed contractor change in their letter dated July 26, 2000.
- 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—December 2000. Specific quantities of leachate removed during each month, along with removal dates and manifest numbers, are described in this progress report under the section "Documentation of Removal Activities." Subsequent to each of these events, leachate and groundwater 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.
- EPA approved elimination of sediment sampling from the OMMP semi-annual activities in a letter dated September 13, 2000.
- OBG performed operational groundwater elevation monitoring on October 2, 16, and 30; November 13; and December 4 and 18, 2000 (includes SWW- and LCW-series wells).
- Quarterly groundwater elevation monitoring was performed on October 30, 2000. Quarterly groundwater 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 greater than 1.5 feet per foot. Therefore, leachate removal activities were conducted at LCW locations (excluding LCW-4) during the November—December 2000 period, in accordance with the November 15, 1999 leachate removal protocol.
- Semi-annual monitoring activities were conducted on November 7 and 8, 2000 and included collection of groundwater quality samples from Long-Term Monitoring (LTM) wells LR-6, LR-8, M-21, M-25 and M-26, in addition to activities identified for operational monitoring. Surface water levels from locations in adjacent creeks and sediment samples were eliminated from the OMMP per EPA approval. The results of the LTM well sampling are provided in Figure 3 as attached.

Quarterly Progress Report  
Pollution Abatement Services Site  
January 9, 2001  
Page 2 of 7

- OBG performed site maintenance activities on October 16, November 13, and December 18, 2000, 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. These maintenance activities were performed in accordance with the approved Work Plan.
- PSDs received the EPA draft Environmental Protection Easement and Restrictive Covenant and are in the process of reviewing the document. The PSDs also scheduled a site visit to confirm property ownership and performed other activities toward obtaining institutional controls in accordance with the Consent Decree.

**ACTION ITEMS FOR FOLLOWING QUARTER (JANUARY—MARCH 2001):**

- Leachate removal activities will be performed in January, February, and March 2001 in accordance with the OMMP. Table 1 provides a schedule for operation and monitoring activities for the period January—March 2001. (In addition, the tentative schedule for operation and monitoring activities for the period April—June 2001 is also shown on Table 1.) The planned leachate removal activities include pumping 15,000 gallons of leachate during the first week of the month, or whatever volume can be efficiently removed during a 1-day pumping event, up to 15,000 gallons. The groundwater slurry wall wells and leachate wells will be monitored during the beginning of the third week of the month. If the leachate elevations measured during the third week indicate an additional 10,000 gallons of removable leachate has accumulated in the trenches, then a contingency removal event will be promptly scheduled to remove the 10,000 gallons of additional leachate.
- Quarterly groundwater monitoring will be performed on February 5, 2001 and will include results for M series and LR series monitoring wells.
- Leachate collection well LCW-4 will be excluded from the LCW pumping activities in accordance with the revised protocol provided in the November 15, 1999 letter to USEPA, as approved. Vertical gradients in the vicinity of leachate collection well LCW-4 will be calculated based on the next quarterly groundwater elevation measurements scheduled for the first week of February 2000. Leachate removal activities at LCW-4 will resume if the calculated upward vertical gradients for the LCW-4 area are determined to be less than 1.5 feet per foot.
- OBG will perform routine maintenance activities including mowing the vegetated cap, inspection of spill control materials, site perimeter fence, french drains and concrete drainage trenches. The french drains and concrete drainage trenches will be cleared of vegetation, as necessary. These maintenance activities will be performed in accordance with the OMMP.
- PSDs will continue to perform activities toward obtaining institutional controls in accordance with the Consent Decree.

Quarterly Progress Report  
 Pollution Abatement Services Site  
 January 9, 2001  
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- The schedule for leachate removal events and tasks is provided below:

**Table 1. Leachate Removal Events and Task Schedule (First and Second Quarters 2001)**

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (FIRST QUARTER 2001)							
	January 2001 Removal Events		February 2001 Removal Events		March 2001 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Prepumping Monitoring	Jan 8	Jan 22	Feb 5	Feb 19	Mar 5	Mar 19	LCW- and SWW- series wells for January, February, and March; LCW- SWW-, M-, and LR-series wells for February (first event only)
Removal	Jan 10	Jan 24	Feb 7	Feb 21	Mar 7	Mar 21	Remove leachate from LCW-

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (SECOND QUARTER 2001)							
	April 2001 Removal Events		May 2001 Removal Events		June 2001 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Prepumping Monitoring	Apr 2	Apr 16	May 7	May 21	Jun 4	Jun 18	LCW- and SWW- series wells for April, May, and June; LCW- SWW-, M-, and LR-series wells for May (first event only)
Removal	Apr 4	Apr 18	May 9	May 23	Jun 6	Jun 20	Remove leachate from LCW-

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 Pollution Abatement Services Site  
 January 9, 2001  
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**ANTICIPATED DELAYS/PROBLEMS:**

- None

**RESULTS OF FIELD ACTIVITIES:**

- Groundwater elevation data collected on October 2, 16, 30; November 13; and December 4 and 18, 2000 are attached (see Attachment 1).
- Routine leachate disposal and inspection checklists are attached (see Attachment 2).
- Results of the November 2000 semi-annual monitoring of groundwater are attached (see Attachment 3).

**DOCUMENTATION OF REMOVAL ACTIVITIES DURING PREVIOUS QUARTER:**

- Hazardous Waste Manifests and Gallons Removed (see Attachment 4).
- Waste Treatment/Disposal Certifications (see Attachment 5).

**OCTOBER 2000**

**October 4, 2000**

Manifest #	Amount (gal)	Date Removed
NYG2448279	4,862	10/4/00
NYG2448288	3,523	10/4/00

*October 4, 2000 total = 8,385 gallons*

**October 18, 2000**

Manifest #	Amount (gal)	Date Removed
NYG2530467	5,243	10/18/00
NYG2448207	3,935	10/18/00

*October 18, 2000 total = 9,178 gallons*

**OCTOBER 2000 TOTAL = 17,563 GALLONS**

Quarterly Progress Report  
 Pollution Abatement Services Site  
 January 9, 2001  
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**NOVEMBER 2000**

**November 1, 2000**

Manifest #	Amount (gal)	Date Removed
NYG2448243	5,119	11/1/00
NYG2448252	3,923	11/1/00

*November 1, 2000 total = 9,042 gallons*

**NOVEMBER 2000 TOTAL = 9,042 GALLONS**

**DECEMBER 2000**

**December 6, 2000**

Manifest #	Amount (gal)	Date Removed
NYG2448261	5,241	12/6/00
NYG2448297	5,222	12/6/00

*December 6, 2000 total = 10,463 gallons*

**DECEMBER 2000 TOTAL = 10,463 GALLONS**

• **CUMULATIVE REMOVAL QUANTITIES**

Cumulative gallons removed during quarter  
 under OMM Plan (October—December 2000)

37,068 gal

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Pollution Abatement Services Site  
January 9, 2001  
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**HISTORICAL SUMMARY OF LEACHATE REMOVAL ACTIVITIES**

<b>Order/Decree</b>	<b>Disposal Facility/Period</b>	<b>Quantities</b>
1991 IGR Order (2/92-10/94)	Dupont: 1992 (2/98-12/98) 1993 1994 (1/94-10/94) Subtotal	221,808 337,619 254,898 814,325
1994 IGR Order (10/94-10/98)	DuPont: 1994 (from 10/94) 1995 1996 (to 5/96) Subtotal (to 5/96)  BFI/CECOS: 1996 1997 1998 (1/98-10/98) Subtotal  <b>94 IGR Order Total</b>	50,683 279,164 119,901 449,748  163,446 269,371 207,541 640,358  <b>1,090,106</b>
<b>Final IGR Total</b>		<b>1,904,431</b>
<b>OMM Consent Decree (beginning 11/98)</b>	BFI/CECOS: 1998 (11/98-12/98) 1999 2000 (thru Dec 2000) OMM Subtotal	18,423 177,710 196,613 392,746
<b>GRAND TOTAL</b>		<b>2,297,177</b>

• **LEACHATE DISPOSAL DOCUMENTATION**

**October 4, 2000**

<b>BFI/CECOS Work Order Number</b>	<b>Manifest #</b>	<b>Date Disposed</b>
283662	NYG2448279	10/4/00
283661	NYG2448288	10/4/00

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 Pollution Abatement Services Site  
 January 9, 2001  
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**October 18, 2000**

BFI/CECOS Work Order Number	Manifest #	Date Disposed
283696	NYG2530467	10/18/00
283697	NYG2448207	10/18/00

**November 1, 2000**

BFI/CECOS Work Order Number	Manifest #	Date Disposed
283753	NYG2448243	11/1/00
283754	NYG2448252	11/1/00

**December 6, 2000**

BFI/CECOS Work Order Number	Manifest #	Date Disposed
283886	NYG2448261	12/6/00
283887	NYG2448297	12/6/00

**Note:** "Gallons removed" is based upon BFI/CECOS's 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 5, and a density of 8.346 pounds per gallon.

## **Analytical Results**

## **Analytical Results**

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

**Analytical Results  
Wet Chemistry**

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5311  
Samp. Description: LCW-2

Collected: 11/07/00 11:55  
Received: 11/07/00 17:20  
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	19. mg/L	EPA 405.1		11/08/00	110800W12	
COD	160. mg/L	EPA 410.4		11/21/00	112100W23	
Total dissolved solids	1700. mg/L	EPA 160.1		11/13/00	111300W21	
Total organic carbon	51. mg/L	EPA 415.1		11/21/00	112100W13	
Total suspended solids	32. mg/L	EPA 160.2		11/13/00	111300W22	

Notes:

Sample: R5312  
Samp. Description: LCW-4

Collected: 11/07/00 12:55  
Received: 11/07/00 17:20  
Matrix: Water

Parameter	Result Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	130. mg/L	EPA 405.1		11/08/00	110800W12	
COD	400. mg/L	EPA 410.4		11/21/00	112100W23	
Total dissolved solids	3500. mg/L	EPA 160.1		11/13/00	111300W21	
Total organic carbon	130. mg/L	EPA 415.1		11/21/00	112100W13	
Total suspended solids	140. mg/L	EPA 160.2		11/13/00	111300W22	

Notes:

J-Estimated value

Authorized: \_\_\_\_\_  
Date: November 28, 2000 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  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5309  
Samp. Description: LR-6  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	11/19/00	
Vinyl chloride	J .89		1	11/19/00	
Bromomethane	<1.0		1	11/19/00	
Chloroethane	1.0		1	11/19/00	
Acetone	<del>J .82</del>		1	11/19/00	
1,1-Dichloroethene	<.50		1	11/19/00	
Methylene chloride	<2.0		1	11/19/00	
Carbon disulfide	8.2		1	11/19/00	
trans-1,2-Dichloroethene	<.50		1	11/19/00	
1,1-Dichloroethane	4.2		1	11/19/00	
2-Butanone	<del>&lt;10.</del>		1	11/19/00	
cis-1,2-Dichloroethene	J .14		1	11/19/00	
Chloroform	<.50		1	11/19/00	
1,2-Dichloroethane	J .22		1	11/19/00	
1,1,1-Trichloroethane	<.50		1	11/19/00	
Carbon tetrachloride	<.50		1	11/19/00	
Benzene	<.50		1	11/19/00	
1,2-Dichloropropane	<.50		1	11/19/00	
Trichloroethene	J .18		1	11/19/00	
Bromodichloromethane	<.50		1	11/19/00	
cis-1,3-Dichloropropene	<.50		1	11/19/00	
4-Methyl-2-pentanone	<5.0		1	11/19/00	
trans-1,3-Dichloropropene	<.50		1	11/19/00	
1,1,2-Trichloroethane	<.50		1	11/19/00	
Toluene	<.50		1	11/19/00	
Dibromochloromethane	<.50		1	11/19/00	
2-Hexanone	<5.0		1	11/19/00	
Tetrachloroethene	<del>J .42</del>		1	11/19/00	15
Chlorobenzene	<.50		1	11/19/00	

*Qual*

*10uJ*

*uJ*

*0.50u*

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5309  
Samp. Description: LR-6  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/19/00	
Bromoform	<.50		1	11/19/00	
Xylene (total)	<.50		1	11/19/00	
Styrene	<.50		1	11/19/00	
1,1,2,2-Tetrachloroethane	<.50		1	11/19/00	
Dibromofluoromethane (surrogate)	96.%	70-131	1	11/19/00	
1,2-Dichloroethane-d4 (surrogate)	98.%	81-120	1	11/19/00	
Toluene-d8 (surrogate)	104.%	83-117	1	11/19/00	
Bromofluorobenzene (surrogate)	96.%	78-119	1	11/19/00	

#### Notes:

15: Suspected autosampler contamination.

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5310  
Samp. Description: LR-8  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	J .48		1	11/19/00	
Vinyl chloride	<1.0		1	11/19/00	
Bromomethane	<1.0		1	11/19/00	
Chloroethane	9.1		1	11/19/00	
Acetone	J 27. —		1	11/19/00	
1,1-Dichloroethene	<.50		1	11/19/00	
Methylene chloride	<del>J .30</del> —		1	11/19/00	
Carbon disulfide	<del>J .11</del> —		1	11/19/00	
trans-1,2-Dichloroethene	<.50		1	11/19/00	
1,1-Dichloroethane	J .11		1	11/19/00	
2-Butanone	UJ <10. —		1	11/19/00	
cis-1,2-Dichloroethene	<.50		1	11/19/00	
Chloroform	<.50		1	11/19/00	
1,2-Dichloroethane	<.50		1	11/19/00	
1,1,1-Trichloroethane	<.50		1	11/19/00	
Carbon tetrachloride	<.50		1	11/19/00	
Benzene	33.		1	11/19/00	
1,2-Dichloropropane	<.50		1	11/19/00	
Trichloroethene	<.50		1	11/19/00	
Bromodichloromethane	<.50		1	11/19/00	
cis-1,3-Dichloropropene	<.50		1	11/19/00	
4-Methyl-2-pentanone	<5.0		1	11/19/00	
trans-1,3-Dichloropropene	<.50		1	11/19/00	
1,1,2-Trichloroethane	<.50		1	11/19/00	
Toluene	.51		1	11/19/00	
Dibromochloromethane	<.50		1	11/19/00	
2-Hexanone	<5.0		1	11/19/00	
Tetrachloroethene	<del>J .32</del> —		1	11/19/00	15
Chlorobenzene	8.2		1	11/19/00	

*2.0U*  
*0.5U*

*UJ*

*0.5U*

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5310  
Samp. Description: LR-8  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/19/00	
Bromoform	<.50		1	11/19/00	
Xylene (total)	1.1		1	11/19/00	
Styrene	<.50		1	11/19/00	
1,1,2,2-Tetrachloroethane	<.50		1	11/19/00	
Dibromofluoromethane (surrogate)	95.%	70-131	1	11/19/00	
1,2-Dichloroethane-d4 (surrogate)	99.%	81-120	1	11/19/00	
Toluene-d8 (surrogate)	106.%	83-117	1	11/19/00	
Bromofluorobenzene (surrogate)	95.%	78-119	1	11/19/00	

Notes:

15: Suspected autosampler contamination.

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5311  
Samp. Description: LCW-2  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00

Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
Chloromethane	J .33				1	11/19/00
Vinyl chloride	8.9				1	11/19/00
Bromomethane	J .15				1	11/19/00
Chloroethane	17.				1	11/19/00
Acetone	J 19.				1	11/19/00
1,1-Dichloroethene	J .35				1	11/19/00
Methylene chloride	J 1.2				1	11/19/00
Carbon disulfide	<i>0.5u</i> <del>J .31</del>				1	11/19/00
trans-1,2-Dichloroethene	1.0				1	11/19/00
1,1-Dichloroethane	<i>41</i> <del>E 40.</del>				1	11/19/00
2-Butanone	<i>WJ</i> <10.				1	11/19/00
cis-1,2-Dichloroethene	40.				1	11/19/00
Chloroform	6.1				1	11/19/00
1,2-Dichloroethane	1.4				1	11/19/00
1,1,1-Trichloroethane	<i>58</i> <del>E 69.</del>				1	11/19/00
Carbon tetrachloride	<.50				1	11/19/00
Benzene	<i>230</i> <del>E 200.</del>				1	11/19/00
1,2-Dichloropropane	<.50				1	11/19/00
Trichloroethene	<i>98</i> <del>E 120.</del>				1	11/19/00
Bromodichloromethane	<.50				1	11/19/00
cis-1,3-Dichloropropene	<.50				1	11/19/00
4-Methyl-2-pentanone	J 1.9				1	11/19/00
trans-1,3-Dichloropropene	<.50				1	11/19/00
1,1,2-Trichloroethane	J .49				1	11/19/00
Toluene	17.				1	11/19/00
Dibromochloromethane	<.50				1	11/19/00
2-Hexanone	<10.				1	11/19/00
Tetrachloroethene	<i>130</i> <del>E 210.</del>				1	11/19/00
Chlorobenzene	<i>52</i> <del>E 59.</del>				1	11/19/00

# - Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_

Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5311  
Samp. Description: LCW-2  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

*Real*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<i>140</i> <del>E 150.</del>		1	11/19/00	
Bromoform	<.50		1	11/19/00	
Xylene (total)	<i>220</i> <del>E 300.</del>		1	11/19/00	
Styrene	<.50		1	11/19/00	
1,1,2,2-Tetrachloroethane	1.1		1	11/19/00	
Dibromofluoromethane (surrogate)	97.%	70-131	1	11/19/00	
1,2-Dichloroethane-d4 (surrogate)	103.%	81-120	1	11/19/00	
Toluene-d8 (surrogate)	107.%	83-117	1	11/19/00	
Bromofluorobenzene (surrogate)	105.%	78-119	1	11/19/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5312  
Samp. Description: LCW-4  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/20/00  
Matrix: Water  
QC Batch: 112000W1  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<50.		50	11/20/00	
Vinyl chloride	110.		50	11/20/00	
Bromomethane	<50.		50	11/20/00	
Chloroethane	J 36.		50	11/20/00	
Acetone	1100. —		50	11/20/00	
1,1-Dichloroethene	<25.		50	11/20/00	
Methylene chloride	<del>J 9.1</del> —		50	11/20/00	
Carbon disulfide	<25.		50	11/20/00	
trans-1,2-Dichloroethene	<25.		50	11/20/00	
1,1-Dichloroethane	45.		50	11/20/00	
2-Butanone	J 100. —		50	11/20/00	
cis-1,2-Dichloroethene	180.		50	11/20/00	
Chloroform	J 5.8		50	11/20/00	
1,2-Dichloroethane	J 15.		50	11/20/00	
1,1,1-Trichloroethane	<25.		50	11/20/00	
Carbon tetrachloride	<25.		50	11/20/00	
Benzene	300.		50	11/20/00	
1,2-Dichloropropane	<25.		50	11/20/00	
Trichloroethene	J 6.0		50	11/20/00	
Bromodichloromethane	<25.		50	11/20/00	
cis-1,3-Dichloropropene	<25.		50	11/20/00	
4-Methyl-2-pentanone	J 140.		50	11/20/00	
trans-1,3-Dichloropropene	<25.		50	11/20/00	
1,1,2-Trichloroethane	<25.		50	11/20/00	
Toluene	350.		50	11/20/00	
Dibromochloromethane	<25.		50	11/20/00	
2-Hexanone	<250.		50	11/20/00	
Tetrachloroethene	<25.		50	11/20/00	
Chlorobenzene	200.		50	11/20/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5312  
Samp. Description: LCW-4  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00      Matrix: Water  
Received: 11/07/00      QC Batch: 112000W1  
Prepared: 11/20/00      %Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	800.		50	11/20/00	
Bromoform	<25.		50	11/20/00	
Xylene (total)	1800.		50	11/20/00	
Styrene	<25.		50	11/20/00	
1,1,2,2-Tetrachloroethane	<25.		50	11/20/00	
Dibromofluoromethane (surrogate)	80.%	70-131	50	11/20/00	
1,2-Dichloroethane-d4 (surrogate)	90.%	81-120	50	11/20/00	
Toluene-d8 (surrogate)	94.%	83-117	50	11/20/00	
Bromofluorobenzene (surrogate)	103.%	78-119	50	11/20/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000      Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5314  
Samp. Description: FD  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/21/00

Matrix: Water  
QC Batch: 112100W1  
%Solids:  
Purge volume: 25 mL

Parameter	Surrog	Result	Limits	Dilution	Analyzed	Notes
Chloromethane	J	J .61	—	1	11/21/00	
Vinyl chloride		<1.0		1	11/21/00	
Bromomethane	uJ	<1.0	—	1	11/21/00	
Chloroethane		9.4		1	11/21/00	
Acetone		24.		1	11/21/00	
1,1-Dichloroethene		<.50		1	11/21/00	
Methylene chloride	2.0u	<del>J .36</del>	—	1	11/21/00	
Carbon disulfide	0.5u	<del>J .15</del>	—	1	11/21/00	
trans-1,2-Dichloroethene		<.50		1	11/21/00	
1,1-Dichloroethane		J .10		1	11/21/00	
2-Butanone		<10.		1	11/21/00	
cis-1,2-Dichloroethene		<.50		1	11/21/00	
Chloroform		<.50		1	11/21/00	
1,2-Dichloroethane		<.50		1	11/21/00	
1,1,1-Trichloroethane		<.50		1	11/21/00	
Carbon tetrachloride		<.50		1	11/21/00	
Benzene		28.		1	11/21/00	
1,2-Dichloropropane		<.50		1	11/21/00	
Trichloroethene		<.50		1	11/21/00	
Bromodichloromethane		<.50		1	11/21/00	
cis-1,3-Dichloropropene	uJ	<.50	—	1	11/21/00	
4-Methyl-2-pentanone		<5.0		1	11/21/00	
trans-1,3-Dichloropropene	uJ	<.50	—	1	11/21/00	
1,1,2-Trichloroethane	uJ	<.50	—	1	11/21/00	
Toluene		J .44		1	11/21/00	
Dibromochloromethane	uJ	<.50	—	1	11/21/00	
2-Hexanone		<5.0		1	11/21/00	
Tetrachloroethene		<.50		1	11/21/00	
Chlorobenzene		7.3		1	11/21/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5314  
Samp. Description: FD  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112100W1  
%Solids:  
Purge volume: 25 mL

*Deal*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/21/00	
Bromoform	<.50 -		1	11/21/00	
Xylene (total)	1.1		1	11/21/00	
Styrene	<.50		1	11/21/00	
1,1,2,2-Tetrachloroethane	<.50 -		1	11/21/00	
Dibromofluoromethane (surrogate)	104.%	70-131	1	11/21/00	
1,2-Dichloroethane-d4 (surrogate)	104.%	81-120	1	11/21/00	
Toluene-d8 (surrogate)	100.%	83-117	1	11/21/00	
Bromofluorobenzene (surrogate)	105.%	78-119	1	11/21/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5370  
Samp. Description: M-21  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112000W3  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	11/21/00	
Vinyl chloride	<1.0		1	11/21/00	
Bromomethane	<1.0		1	11/21/00	
Chloroethane	8.9		1	11/21/00	
Acetone	<10.	<i>UT</i>	1	11/21/00	
1,1-Dichloroethene	<.50		1	11/21/00	
Methylene chloride	<del>J .16</del>	<i>2.0U</i>	1	11/21/00	
Carbon disulfide	<.50	<i>UT</i>	1	11/21/00	
trans-1,2-Dichloroethene	<.50		1	11/21/00	
1,1-Dichloroethane	J .46		1	11/21/00	
2-Butanone	<10.	<i>UT</i>	1	11/21/00	
cis-1,2-Dichloroethene	<del>J .15</del>	<i>0.5U</i>	1	11/21/00	
Chloroform	<.50		1	11/21/00	
1,2-Dichloroethane	<.50		1	11/21/00	
1,1,1-Trichloroethane	<.50		1	11/21/00	
Carbon tetrachloride	<.50		1	11/21/00	
Benzene	26.		1	11/21/00	
1,2-Dichloropropane	<.50		1	11/21/00	
Trichloroethene	<.50		1	11/21/00	
Bromodichloromethane	<.50		1	11/21/00	
cis-1,3-Dichloropropene	<.50		1	11/21/00	
4-Methyl-2-pentanone	<5.0		1	11/21/00	
trans-1,3-Dichloropropene	<.50		1	11/21/00	
1,1,2-Trichloroethane	<.50		1	11/21/00	
Toluene	.71		1	11/21/00	
Dibromochloromethane	<.50	<i>UT</i>	1	11/21/00	
2-Hexanone	<5.0		1	11/21/00	
Tetrachloroethene	<.50		1	11/21/00	
Chlorobenzene	9.8		1	11/21/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5370  
Samp. Description: M-21  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00 Matrix: Water  
Received: 11/08/00 QC Batch: 112000W3  
Prepared: 11/21/00 %Solids:  
Purge volume: 25 mL

*Deal*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/21/00	
Bromoform	<.50		1	11/21/00	
Xylene (total)	J .28	==	1	11/21/00	
Styrene	<.50	==	1	11/21/00	
1,1,2,2-Tetrachloroethane	<.50		1	11/21/00	
Dibromofluoromethane (surrogate)	95.%	70-131	1	11/21/00	
1,2-Dichloroethane-d4 (surrogate)	98.%	81-120	1	11/21/00	
Toluene-d8 (surrogate)	106.%	83-117	1	11/21/00	
Bromofluorobenzene (surrogate)	95.%	78-119	1	11/21/00	

*J  
W*

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5371  
Samp. Description: M-25  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112000W3  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0			1	11/21/00	
Vinyl chloride	<1.0			1	11/21/00	
Bromomethane	<1.0			1	11/21/00	
Chloroethane	4.0			1	11/21/00	
Acetone	11.	J	—	1	11/21/00	
1,1-Dichloroethene	<.50			1	11/21/00	
Methylene chloride	<2.0			1	11/21/00	
Carbon disulfide	<.50			1	11/21/00	
trans-1,2-Dichloroethene	<.50			1	11/21/00	
1,1-Dichloroethane	J .14			1	11/21/00	
2-Butanone	<10.	WS	—	1	11/21/00	
cis-1,2-Dichloroethene	<.50			1	11/21/00	
Chloroform	<.50			1	11/21/00	
1,2-Dichloroethane	<.50			1	11/21/00	
1,1,1-Trichloroethane	<.50			1	11/21/00	
Carbon tetrachloride	<.50			1	11/21/00	
Benzene	6.1			1	11/21/00	
1,2-Dichloropropane	<.50			1	11/21/00	
Trichloroethene	<.50			1	11/21/00	
Bromodichloromethane	<.50			1	11/21/00	
cis-1,3-Dichloropropene	<.50			1	11/21/00	
4-Methyl-2-pentanone	<5.0			1	11/21/00	
trans-1,3-Dichloropropene	<.50			1	11/21/00	
1,1,2-Trichloroethane	<.50			1	11/21/00	
Toluene	J .42			1	11/21/00	
Dibromochloromethane	<.50			1	11/21/00	
2-Hexanone	<5.0			1	11/21/00	
Tetrachloroethene	<.50			1	11/21/00	
Chlorobenzene	4.8			1	11/21/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5371  
Samp. Description: M-25  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00 Matrix: Water  
Received: 11/08/00 QC Batch: 112000W3  
Prepared: 11/21/00 %Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Ethylbenzene	<.50		1	11/21/00
Bromoform	<.50		1	11/21/00
Xylene (total)	<.50		1	11/21/00
Styrene	<.50		1	11/21/00
1,1,2,2-Tetrachloroethane	<.50		1	11/21/00
Dibromofluoromethane (surrogate)	96.%	70-131	1	11/21/00
1,2-Dichloroethane-d4 (surrogate)	98.%	81-120	1	11/21/00
Toluene-d8 (surrogate)	105.%	83-117	1	11/21/00
Bromofluorobenzene (surrogate)	95.%	78-119	1	11/21/00

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5372  
Samp. Description: M-23  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112100W1  
%Solids:  
Purge volume: 25 mL

*Qual*

Parameter	Surrog	Result	Limits	Dilution	Analyzed	Notes
Chloromethane	J	J .16	—	1	11/21/00	
Vinyl chloride		<1.0		1	11/21/00	
Bromomethane	WJ	<1.0	—	1	11/21/00	
Chloroethane		J .24		1	11/21/00	
Acetone	10U	<del>J 1.8</del>	—	1	11/21/00	
1,1-Dichloroethene		<.50		1	11/21/00	
Methylene chloride		<2.0		1	11/21/00	
Carbon disulfide		<.50		1	11/21/00	
trans-1,2-Dichloroethene		<.50		1	11/21/00	
1,1-Dichloroethane		1.2		1	11/21/00	
2-Butanone		<10.		1	11/21/00	
cis-1,2-Dichloroethene		<.50		1	11/21/00	
Chloroform		<.50		1	11/21/00	
1,2-Dichloroethane		J .26		1	11/21/00	
1,1,1-Trichloroethane		<.50		1	11/21/00	
Carbon tetrachloride		<.50		1	11/21/00	
Benzene		<.50		1	11/21/00	
1,2-Dichloropropane		<.50		1	11/21/00	
Trichloroethene		<.50		1	11/21/00	
Bromodichloromethane		<.50		1	11/21/00	
cis-1,3-Dichloropropene	WJ	<.50	—	1	11/21/00	
4-Methyl-2-pentanone		<5.0		1	11/21/00	
trans-1,3-Dichloropropene	WJ	<.50	—	1	11/21/00	
1,1,2-Trichloroethane	WJ	<.50	—	1	11/21/00	
Toluene		<.50		1	11/21/00	
Dibromochloromethane	WJ	<.50	—	1	11/21/00	
2-Hexanone		<5.0		1	11/21/00	
Tetrachloroethene		<.50		1	11/21/00	
Chlorobenzene		<.50		1	11/21/00	

# - Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_

Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5372  
Samp. Description: M-23  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112100W1  
%Solids:  
Purge volume: 25 mL

*Deal*

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/21/00	
Bromoform	<.50	—	1	11/21/00	<i>UJ</i>
Xylene (total)	<.50		1	11/21/00	
Styrene	<.50		1	11/21/00	
1,1,2,2-Tetrachloroethane	<.50	—	1	11/21/00	<i>UJ</i>
Dibromofluoromethane (surrogate)	102.%	70-131	1	11/21/00	
1,2-Dichloroethane-d4 (surrogate)	105.%	81-120	1	11/21/00	
Toluene-d8 (surrogate)	103.%	83-117	1	11/21/00	
Bromofluorobenzene (surrogate)	107.%	78-119	1	11/21/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: \_\_\_\_\_  
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Wet Chemistry

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5311 /  
Samp. Description: LCW-2

Collected: 11/07/00 11:55 Matrix: Water  
Received: 11/07/00 17:20

Parameter	Result Units	Method	Prepared Analyzed	QC Batch Note
BOD 5 <sup>24</sup>	19. mg/L	EPA 405.1	11/08/00	110800W12
COD	160. mg/L	EPA 410.4	11/21/00	112100W23
Total dissolved solids	1700. mg/L	EPA 160.1	11/13/00	111300W21
Total organic carbon	51. mg/L	EPA 415.1	11/21/00	112100W13
Total suspended solids	32. mg/L	EPA 160.2	11/13/00	111300W22

Notes:

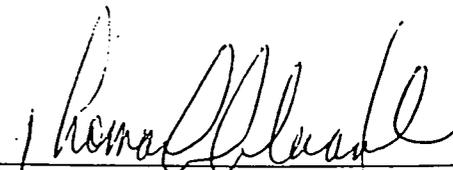
Sample: R5312  
Samp. Description: LCW-4

Collected: 11/07/00 12:55 Matrix: Water  
Received: 11/07/00 17:20

Parameter	Result Units	Method	Prepared Analyzed	QC Batch Note
BOD 5	130. mg/L	EPA 405.1	11/08/00	110800W12
COD	400. mg/L	EPA 410.4	11/21/00	112100W23
Total dissolved solids	3500. mg/L	EPA 160.1	11/13/00	111300W21
Total organic carbon	130. mg/L	EPA 415.1	11/21/00	112100W13
Total suspended solids	140. mg/L	EPA 160.2	11/13/00	111300W22

Notes:

J-Estimated value

Authorized:   
Date: November 28, 2000 Thomas Alexander

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

**Analytical Results  
Method: 8260**

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5313  
Samp. Description: RB  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/20/00  
Matrix: Water  
QC Batch: 112000W1  
%Solids:  
Purge volume: 25 mL

*NO Quab Amse  
blant*

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<1.0	1	11/20/00
Vinyl chloride	<1.0	1	11/20/00
Bromomethane	<1.0	1	11/20/00
Chloroethane	<1.0	1	11/20/00
Acetone	<del>&lt;1.0</del>	1	11/20/00
1,1-Dichloroethene	<.50	1	11/20/00
Methylene chloride	<2.0	1	11/20/00
Carbon disulfide	.67	1	11/20/00
trans-1,2-Dichloroethene	<.50	1	11/20/00
1,1-Dichloroethane	<.50	1	11/20/00
2-Butanone	<10.0	1	11/20/00
cis-1,2-Dichloroethene	<.50	1	11/20/00
Chloroform	<.50	1	11/20/00
1,2-Dichloroethane	<.50	1	11/20/00
1,1,1-Trichloroethane	<.50	1	11/20/00
Carbon tetrachloride	<.50	1	11/20/00
Benzene	<.50	1	11/20/00
1,2-Dichloropropane	<.50	1	11/20/00
Trichloroethene	<.50	1	11/20/00
Bromodichloromethane	<.50	1	11/20/00
cis-1,3-Dichloropropene	<.50	1	11/20/00
4-Methyl-2-pentanone	<5.0	1	11/20/00
trans-1,3-Dichloropropene	<.50	1	11/20/00
1,1,2-Trichloroethane	<.50	1	11/20/00
Toluene	<.50	1	11/20/00
Dibromochloromethane	<.50	1	11/20/00
2-Hexanone	<5.0	1	11/20/00
Tetrachloroethene	<.50	1	11/20/00
Chlorobenzene	<.50	1	11/20/00

*J-93 OUT*

*X*

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized: Thomas Alexander  
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5313  
Samp. Description: RB  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00      Matrix: Water  
Received: 11/07/00      QC Batch: 112000W1  
Prepared: 11/20/00      % Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/20/00	
Bromoform	<.50		1	11/20/00	
Xylene (total)	J .17 J		1	11/20/00	
Styrene	<.50		1	11/20/00	
1,1,2,2-Tetrachloroethane	<.50		1	11/20/00	
Dibromofluoromethane (surrogate)	81.%	70-131	1	11/20/00	
1,2-Dichloroethane-d4 (surrogate)	92.%	81-120	1	11/20/00	
Toluene-d8 (surrogate)	98.%	83-117	1	11/20/00	
Bromofluorobenzene (surrogate)	93.%	78-119	1	11/20/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: November 28, 2000      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  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5315  
Samp. Description: QC Trip Blank  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

*No Qual  
Trip Blank*

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	11/19/00	
Vinyl chloride	<1.0		1	11/19/00	
Bromomethane	<1.0		1	11/19/00	
Chloroethane	<1.0		1	11/19/00	
Acetone	J .73 J		1	11/19/00	
1,1-Dichloroethene	<.50		1	11/19/00	
Methylene chloride	J .10 J		1	11/19/00	
Carbon disulfide	<.50		1	11/19/00	
trans-1,2-Dichloroethene	<.50		1	11/19/00	
1,1-Dichloroethane	<.50		1	11/19/00	
2-Butanone	<10. X		1	11/19/00	
cis-1,2-Dichloroethene	<.50		1	11/19/00	
Chloroform	<.50		1	11/19/00	
1,2-Dichloroethane	<.50		1	11/19/00	
1,1,1-Trichloroethane	<.50		1	11/19/00	
Carbon tetrachloride	<.50		1	11/19/00	
Benzene	<.50		1	11/19/00	
1,2-Dichloropropane	<.50		1	11/19/00	
Trichloroethene	<.50		1	11/19/00	
Bromodichloromethane	<.50		1	11/19/00	
cis-1,3-Dichloropropene	<.50		1	11/19/00	
4-Methyl-2-pentanone	<5.0		1	11/19/00	
trans-1,3-Dichloropropene	<.50		1	11/19/00	
1,1,2-Trichloroethane	<.50		1	11/19/00	
Toluene	<.50		1	11/19/00	
Dibromochloromethane	<.50		1	11/19/00	
2-Hexanone	<5.0		1	11/19/00	
Tetrachloroethene	.54		1	11/19/00	15
Chlorobenzene	<.50		1	11/19/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5315  
Samp. Description: QC Trip Blank  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/07/00  
Received: 11/07/00  
Prepared: 11/19/00  
Matrix: Water  
QC Batch: 111900W1  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/19/00	
Bromoform	<.50		1	11/19/00	
Xylene (total)	<.50		1	11/19/00	
Styrene	<.50		1	11/19/00	
1,1,2,2-Tetrachloroethane	<.50		1	11/19/00	
Dibromofluoromethane (surrogate)	95.%	70-131	1	11/19/00	
1,2-Dichloroethane-d4 (surrogate)	96.%	81-120	1	11/19/00	
Toluene-d8 (surrogate)	107.%	83-117	1	11/19/00	
Bromofluorobenzene (surrogate)	95.%	78-119	1	11/19/00	

Notes:

15: Suspected autosampler contamination.

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: November 30, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5373  
Samp. Description: QC Trip Blank  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

*NO Qualifiers  
Trip Blank*

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112000W3  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0	<i>R</i>	1	11/21/00	
Vinyl chloride	<1.0		1	11/21/00	
Bromomethane	<1.0	<i>R</i>	1	11/21/00	
Chloroethane	<1.0		1	11/21/00	
Acetone	<10.0	<i>R</i>	1	11/21/00	
1,1-Dichloroethene	<.50		1	11/21/00	
Methylene chloride	<i>J</i> .12	<i>0.12</i>	1	11/21/00	
Carbon disulfide	<i>J</i> .13		1	11/21/00	
trans-1,2-Dichloroethene	<.50		1	11/21/00	
1,1-Dichloroethane	<.50		1	11/21/00	
2-Butanone	<10.0	<i>R</i>	1	11/21/00	
cis-1,2-Dichloroethene	<.50		1	11/21/00	
Chloroform	<.50		1	11/21/00	
1,2-Dichloroethane	<.50		1	11/21/00	
1,1,1-Trichloroethane	<.50		1	11/21/00	
Carbon tetrachloride	<.50		1	11/21/00	
Benzene	<.50		1	11/21/00	
1,2-Dichloropropane	<.50		1	11/21/00	
Trichloroethene	<i>J</i> .10		1	11/21/00	
Bromodichloromethane	<.50		1	11/21/00	
cis-1,3-Dichloropropene	<.50	<i>R</i>	1	11/21/00	
4-Methyl-2-pentanone	<5.0		1	11/21/00	
trans-1,3-Dichloropropene	<.50	<i>R</i>	1	11/21/00	
1,1,2-Trichloroethane	<.50	<i>R</i>	1	11/21/00	
Toluene	<.50		1	11/21/00	
Dibromochloromethane	<.50	<i>R</i>	1	11/21/00	
2-Hexanone	<5.0		1	11/21/00	
Tetrachloroethene	<.50		1	11/21/00	
Chlorobenzene	<.50		1	11/21/00	

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: November 28, 2000 Thomas Alexander

# O'Brien & Gere Laboratories, Inc.

# Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R5373  
Samp. Description: QC Trip Blank  
Instrument: HP5973 GCMS#3  
Units: ug/L  
Number of analytes: 38

Collected: 11/08/00  
Received: 11/08/00  
Prepared: 11/21/00  
Matrix: Water  
QC Batch: 112000W3  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	11/21/00	
Bromoform	<.50 <i>K X</i>		1	11/21/00	
Xylene (total)	<.50		1	11/21/00	
Styrene	<.50		1	11/21/00	
1,1,2,2-Tetrachloroethane	<.50 <i>K X</i>		1	11/21/00	
Dibromofluoromethane (surrogate)	96.%	70-131	1	11/21/00	
1,2-Dichloroethane-d4 (surrogate)	99.%	81-120	1	11/21/00	
Toluene-d8 (surrogate)	109.%	83-117	1	11/21/00	
Bromofluorobenzene (surrogate)	94.%	78-119	1	11/21/00	

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: November 28, 2000 Thomas Alexander

## Analytical Results

# O'Brien & Gere Laboratories, Inc.

## Analytical Results Method: 8260

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

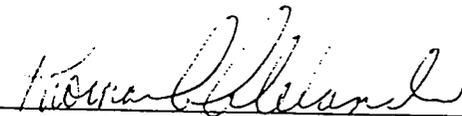
Job No.: 3027.333.517  
Certification NY No.: 10155

Sample: R8072  
Samp. Description: M-26  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 38

Collected: 01/02/01  
Received: 01/02/01  
Prepared: 01/02/01  
Matrix: Water  
QC Batch: 010201W2  
%Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0			1	01/02/01
Vinyl chloride	<1.0			1	01/02/01
Bromomethane	<1.0			1	01/02/01
Chloroethane	<1.0			1	01/02/01
Acetone	<10.			1	01/02/01
1,1-Dichloroethene	<.50			1	01/02/01
Methylene chloride	<2.0			1	01/02/01
Carbon disulfide	<.50			1	01/02/01
trans-1,2-Dichloroethene	<.50			1	01/02/01
1,1-Dichloroethane	<.50			1	01/02/01
2-Butanone	<10.			1	01/02/01
cis-1,2-Dichloroethene	<.50			1	01/02/01
Chloroform	<.50			1	01/02/01
1,2-Dichloroethane	<.50			1	01/02/01
1,1,1-Trichloroethane	<.50			1	01/02/01
Carbon tetrachloride	<.50			1	01/02/01
Benzene	<.50			1	01/02/01
1,2-Dichloropropane	<.50			1	01/02/01
Trichloroethene	<.50			1	01/02/01
Bromodichloromethane	<.50			1	01/02/01
cis-1,3-Dichloropropene	<.50			1	01/02/01
4-Methyl-2-pentanone	<5.0			1	01/02/01
trans-1,3-Dichloropropene	<.50			1	01/02/01
1,1,2-Trichloroethane	<.50			1	01/02/01
Toluene	<.50			1	01/02/01
Dibromochloromethane	<.50			1	01/02/01
2-Hexanone	<5.0			1	01/02/01
Tetrachloroethene	<.50			1	01/02/01
Chlorobenzene	<.50			1	01/02/01

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: January 4, 2001 Thomas Alexander

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

**Analytical Results  
Method: 8260**

Client: O'Brien & Gere Inc. of North America  
Project: PAS Site  
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517  
Certification NY No.: 10155

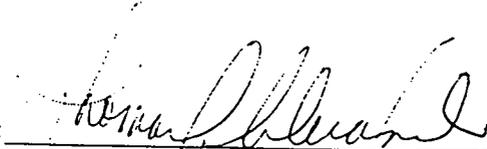
Sample: R8072  
Samp. Description: M-26  
Instrument: HP5970 GC/MS#2  
Units: ug/L  
Number of analytes: 38

Collected: 01/02/01      Matrix: Water  
Received: 01/02/01      QC Batch: 010201W2  
Prepared: 01/02/01      %Solids:  
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50			1	01/02/01
Bromoform	<.50			1	01/02/01
Xylene (total)	<.50			1	01/02/01
Styrene	<.50			1	01/02/01
1,1,2,2-Tetrachloroethane	<.50			1	01/02/01
Dibromofluoromethane (surrogate)	97.%	70-131		1	01/02/01
1,2-Dichloroethane-d4 (surrogate)	92.%	81-120		1	01/02/01
Toluene-d8 (surrogate)	101.%	83-117		1	01/02/01
Bromofluorobenzene (surrogate)	96.%	78-119		1	01/02/01

Notes:

# - Outside control limits J-Estimated value  
E - Concentration exceeded the calibration range and is estimated

Authorized:   
Date: January 4, 2001      Thomas Alexander

File on eDOCs  Yes \_\_\_\_\_ No \_\_\_\_\_  
Site Name PAS  
Site No. 738001  
County Oswego  
Town Oswego  
Foitable  Yes \_\_\_\_\_ No \_\_\_\_\_  
File Name 2001-01-09-04-00 Report  
Scanned & eDOC \_\_\_\_\_