

APR - JUNE 2001

▽
de maximis, inc.

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Sarasota, FL 34239
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✓ JRS
7/20/01

July 10, 2001

Patricia Simmons
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

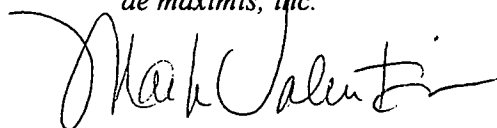
**Subject: Quarterly Progress Report - 2Q01
Operations and Maintenance and Long Term-Monitoring Activities
PAS Site, Oswego, NY**

Dear Ms. Simmons:

The July 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 April 2001 through June 2001, conforms with requirements of Paragraph 30 of the Consent Decree, which was entered on August 10, 1998.

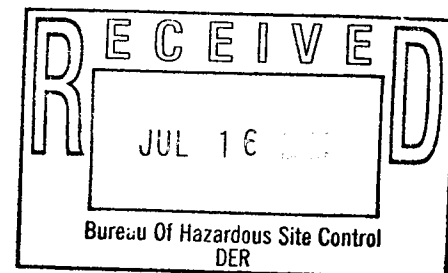
If you have any questions, please call me at (941) 926-7929.

Sincerely,
de maximis, inc.



Mark Valentine

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



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

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

PERIOD COVERED: APRIL – JUNE 2001

ACTIONS TAKEN DURING PREVIOUS QUARTER (APRIL – JUNE 2001):

- Removal activities were conducted at the PAS Oswego Site in accordance with the Operation, Maintenance and Long-term Monitoring Activities Plan (Work Plan). A total of 39,822 gallons of leachate was removed during the period April through June 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 both BBLES and OBG leachate removal activities.
- Ground-water elevation monitoring was performed on April 2 and 16, May 7 and 21 and June 4 and 18, 2001.
- On May 7, 2001, quarterly ground-water elevation monitoring was 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 greater than 1.5 feet per foot. Therefore, leachate removal activities were conducted at LCW locations (excluding LCW-4) during the April through June 2001 period, in accordance with the November 15, 1999 leachate removal protocol.
- The semi-annual ground-water and leachate quality sampling was conducted on May 9, 2001. A summary of these sampling results, along with historical sampling results, is presented in Figure 3, as attached. The Laboratory Report and the data validation, with summary of validated analytical results, are included with this quarterly report.
- Site maintenance activities were conducted on April 2 and 16, May 7 and June 4, 5 and 18, 2001, which included inspection of spill control materials, monitoring wells, perimeter fencing repairs, 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.
- The PSDs provided a revised draft version of the Environmental Protection Easement and Restrictive Covenant for the PAS Oswego Site to USEPA on June 7, 2001.
- The USEPA invoice for Future Response Costs incurred during the period August 1, 2000 through March 31, 2001 (in the amount of \$1,199.28) was received by de maximis on behalf of the PSDs.

ACTION ITEMS FOR FOLLOWING QUARTER (JUL – SEPT 2001):

- OMM activities will be performed in July, August, and September 2001, 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 August 6, 2001.
- Routine maintenance activities will continue, including inspection of spill control materials and perimeter fence. These maintenance activities will be performed in accordance with the approved Work Plan. The cap will be mowed and weed-eating performed the first two weeks in July 2001.
- PSDs will continue to perform activities toward obtaining institutional controls in accordance with the Consent Decree upon receipt of USEPA's response to the revised draft Environmental Protection Easement and Restrictive Covenant.

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

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (3rd Quarter 2001)							
	July 2001 Removal Events		August 2001 Removal Events		Sept 2001 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Pre-Pumping Monitoring	Jul 9	Jul 23	Aug 6	Aug 20	Sept 10	Sept 24	LCW- and SWW- Series Wells for July, August and Sept. LCW-, SWW-, M-, and LR- Series Wells for August (first event only).
Removal	Jul 11	Jul 25	Aug 8	Aug 22	Sept 12	Sept 26	Remove leachate from LCW-1, -2, -3 and -4 wells (pending results of Aug 6 readings).

LEACHATE REMOVAL EVENTS AND TASK SCHEDULE (4th Quarter 2001)							
	October 2001 Removal Events		November 2001 Removal Events		December 2001 Removal Events		Task
	First Event	Contingency Event	First Event	Contingency Event	First Event	Contingency Event	
Pre-Pumping Monitoring	Oct 8	Oct 22	Nov 5	Nov 19	Dec 3	Dec 17	LCW- and SWW- Series Wells for Oct, Nov. and Dec. LCW, SWW-, M-, and LR- Series Wells for Nov. (first event only).
Removal	Oct 10	Oct 24	Nov 7	Nov 21	Dec 5	Dec 19	Remove leachate from LCW-1, -2, -3, and -4 wells (pending results of Nov. 5 readings).

ANTICIPATED DELAYS/PROBLEMS:

- None

RESULTS OF FIELD ACTIVITIES:

- Ground-water elevation data collected on April 2 and 16, May 7 and 21 and June 4 and 18, 2001 are attached (See Attachment 1).
- The routine leachate disposal and site inspection checklists are attached (See Attachment 2).
- The May 9, 2001 semi-annual sampling results are attached (See Attachment 5)

DOCUMENTATION OF REMOVAL ACTIVITIES DURING PREVIOUS QUARTER:

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

APRIL 2001

April 4, 2001

Manifest #	Amount (gal)	Date Removed
NYG2448441	5,121	4/04/01
NYG2448405	5,016	4/04/01

April 4, 2001 Total = 10,137 gallons

April 18, 2001

Manifest #	Amount (gal)	Date Removed
NYG2448387	4,706	4/18/01
NYG2448432	4,766	4/18/01

April 18, 2001 Total = 9,472 gallons

April 2001 Total = 19,609 gallons

MAY 2001

May 9, 2001

Manifest #	Amount (gal)	Date Removed
NYG2448504	5,011	5/09/01
NYG2448495	5,147	5/09/01

May 9, 2001 Total = 10,158 gallons
May 2001 Total = 10,158 gallons

JUNE 2001

June 6, 2001

Manifest #	Amount (gal)	Date Removed
NYG2448342	4,915	6/6/01
NYG2534517	5,140	6/6/01

June 6, 2001 Total = 10,055 gallons
June 2001 Total = 10,055 gallons

• **CUMULATIVE REMOVAL QUANTITIES**

Cumulative gallons removed during quarter 39,822 gal
 - April through June 2001

HISTORICAL SUMMARY OF LEACHATE REMOVAL ACTIVITIES

Order/Decree	Disposal Facility/Period	Quantities
1991 IGR Order (2/92 - 10/94)	Dupont: 1992 (2/98 -12/98) 1993 <u>1994 (1/94-10/94)</u> Subtotal	221,808 337,619 <u>254,898</u> 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 <u>1998 (1/98-10/98)</u> Subtotal 94 IGR Order Total	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)	BFI/CECOS: 1998 (11/98-12/98) 1999 2000 (thru Dec 2000) 2001 (thru Jun 2001) OMM Subtotal	18,423 177,710 196,613 <u>71,806</u> 463,852
GRAND TOTAL		2,368,283

• **LEACHATE DISPOSAL DOCUMENTATION**

April 4, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284056	NYG2448441	4/04/01
284057	NYG2448405	4/04/01

April 18, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284058	NYG2448387	4/18/01
284059	NYG2448432	4/18/01

May 9, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284133	NYG2448504	5/09/01
284134	NYG2448495	5/09/01

June 6, 2001

BFI/CECOS Work Order Number	Manifest #	Date Disposed
284193	NYG2448342	6/6/01
284194	NYG2534517	6/6/01

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
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
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
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
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
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
1,1-DICHLOROETHANE	48	67	49	34	33	14	12	8	10	8	7J	13	7	8	5	4.2J	6	3	9	23	4.2	ND	ND	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
BENZENE	4J	9	ND	12	6.6	5	10	6	8	6.1	0.99
TOLUENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12J
XYLENES (TOTAL)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79
CHLOROBENZENE	1J	3J	ND	6	5.1	ND	6	3J	6	4.8	1.1
1,1-DICHLOROETHANE	ND	2J	4J	ND	ND	ND	ND	ND	ND	ND	ND

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

- 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)

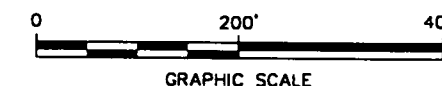
M-25	AUG 1994	MAY 1996	NOV 1996	MAY 1997
BENZENE	4J	9	ND	12
TOLUENE	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND
XYLENES (TOTAL)	ND	ND	ND	ND
CHLOROBENZENE	1J	3J	ND	6
1,1-DICHLOROETHANE	ND	2J	4J	ND

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 (1989-2000)

BIBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
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
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
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
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
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	1.1	0.98J
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
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	ND

L: ON=*, OFF=REF
P: STD-PCP/BL
3/24/00 SYR-54-RCB
54619104/34619C01.DWG

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: S5321
Samp. Description: LR-6
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits Dilution	Analyzed Notes
Chloromethane	<1.0	1	05/21/01
Vinyl chloride	<1.0	1	05/21/01
Bromomethane	<1.0	1	05/21/01
Chloroethane	<1.0	1	05/21/01
Acetone	<10.	1	05/21/01
1,1-Dichloroethene	<.50	1	05/21/01
Methylene chloride	<2.0	1	05/21/01
Carbon disulfide	<.50	1	05/21/01
trans-1,2-Dichloroethene	<.50	1	05/21/01
1,1-Dichloroethane	1.9	1	05/21/01
2-Butanone	<10.	1	05/21/01
cis-1,2-Dichloroethene	<.50	1	05/21/01
Chloroform	<.50	1	05/21/01
1,2-Dichloroethane	J .13	1	05/21/01
1,1,1-Trichloroethane	<.50	1	05/21/01
Carbon tetrachloride	<.50	1	05/21/01
Benzene	<.50	1	05/21/01
1,2-Dichloropropane	<.50	1	05/21/01
Trichloroethene	J .13	1	05/21/01
Bromodichloromethane	<.50	1	05/21/01
cis-1,3-Dichloropropene	<.50	1	05/21/01
4-Methyl-2-pentanone	<5.0	1	05/21/01
trans-1,3-Dichloropropene	<.50	1	05/21/01
1,1,2-Trichloroethane	<.50	1	05/21/01
Toluene	<.50	1	05/21/01
Dibromochloromethane	<.50	1	05/21/01
2-Hexanone	<5.0	1	05/21/01
Tetrachloroethene	<.50	1	05/21/01
Chlorobenzene	<.50	1	05/21/01

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

Authorized:

Date: June 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

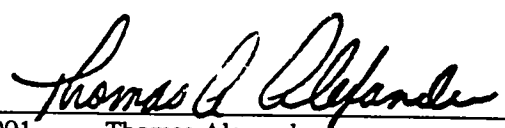
Sample: S5321
Samp. Description: LR-6
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	<.50		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	104.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	94.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	103.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	94.%	78-119	1	05/21/01	

Notes:

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

Authorized: 

Date: June 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.

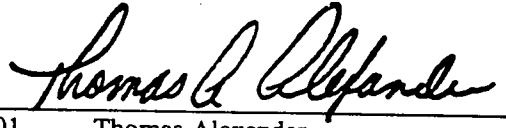
Job No.: 3027.333.517
Certification NY No.: 10155

Sample: S5322
Samp. Description: LR-8
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	05/21/01	
Vinyl chloride	<1.0		1	05/21/01	
Bromomethane	<1.0		1	05/21/01	
Chloroethane	9.3		1	05/21/01	
Acetone	<10.		1	05/21/01	
1,1-Dichloroethene	<.50		1	05/21/01	
Methylene chloride	<2.0		1	05/21/01	
Carbon disulfide	<.50		1	05/21/01	
trans-1,2-Dichloroethene	<.50		1	05/21/01	
1,1-Dichloroethane	<.50		1	05/21/01	
2-Butanone	<10.		1	05/21/01	
cis-1,2-Dichloroethene	<.50		1	05/21/01	
Chloroform	<.50		1	05/21/01	
1,2-Dichloroethane	<.50		1	05/21/01	
1,1,1-Trichloroethane	<.50		1	05/21/01	
Carbon tetrachloride	<.50		1	05/21/01	
Benzene	<.50		1	05/21/01	
1,2-Dichloropropane	21.		1	05/21/01	
Trichloroethene	<.50		1	05/21/01	
Bromodichloromethane	<.50		1	05/21/01	
cis-1,3-Dichloropropene	<.50		1	05/21/01	
4-Methyl-2-pentanone	<.50		1	05/21/01	
trans-1,3-Dichloropropene	<5.0		1	05/21/01	
1,1,2-Trichloroethane	<.50		1	05/21/01	
Toluene	<.50		1	05/21/01	
Dibromochloromethane	J .35		1	05/21/01	
2-Hexanone	<.50		1	05/21/01	
Tetrachloroethene	<5.0		1	05/21/01	
Chlorobenzene	<.50		1	05/21/01	
	7.3		1	05/21/01	

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

Authorized: 

Date: June 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: S5322
Samp. Description: LR-8
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

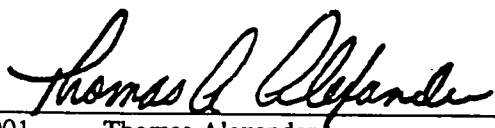
Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	.96		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	103.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	93.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	99.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	101.%	78-119	1	05/21/01	

Notes:

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

Authorized: _____
Date: June 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: S5323
Samp. Description: M-21
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog		Analyzed	Notes
		Limits	Dilution		
Chloromethane	<1.0		1	05/21/01	
Vinyl chloride	<1.0		1	05/21/01	
Bromomethane	<1.0		1	05/21/01	
Chloroethane	7.5		1	05/21/01	
Acetone	<10.		1	05/21/01	
1,1-Dichloroethene	<.50		1	05/21/01	
Methylene chloride	J .20		1	05/21/01	
Carbon disulfide	<.50		1	05/21/01	
trans-1,2-Dichloroethene	<.50		1	05/21/01	
1,1-Dichloroethane	<.50		1	05/21/01	
2-Butanone	<10.		1	05/21/01	
cis-1,2-Dichloroethene	<.50		1	05/21/01	
Chloroform	<.50		1	05/21/01	
1,2-Dichloroethane	<.50		1	05/21/01	
1,1,1-Trichloroethane	<.50		1	05/21/01	
Carbon tetrachloride	<.50		1	05/21/01	
Benzene	14.		1	05/21/01	
1,2-Dichloropropane	<.50		1	05/21/01	
Trichloroethene	<.50		1	05/21/01	
Bromodichloromethane	<.50		1	05/21/01	
cis-1,3-Dichloropropene	<.50		1	05/21/01	
4-Methyl-2-pentanone	<5.0		1	05/21/01	
trans-1,3-Dichloropropene	<.50		1	05/21/01	
1,1,2-Trichloroethane	<.50		1	05/21/01	
Toluene	J .36		1	05/21/01	
Dibromochloromethane	<.50		1	05/21/01	
2-Hexanone	<5.0		1	05/21/01	
Tetrachloroethene	<.50		1	05/21/01	
Chlorobenzene	4.2		1	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized:

Date: June 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: S5323
Samp. Description: M-21
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

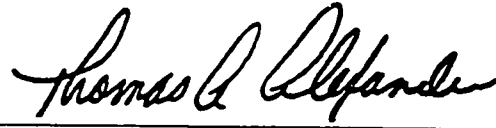
Collected: 05/09/01 Matrix: Water
Received: 05/09/01 QC Batch: 052101W2
Prepared: 05/21/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	J .47		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	103.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	100.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	101.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	100.%	78-119	1	05/21/01	

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 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: S5324
Samp. Description: M-25
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0			1	05/21/01	
Vinyl chloride	<1.0			1	05/21/01	
Bromomethane	<1.0			1	05/21/01	
Chloroethane	J .93			1	05/21/01	
Acetone	<10.			1	05/21/01	
1,1-Dichloroethene	<.50			1	05/21/01	
Methylene chloride	<2.0			1	05/21/01	
Carbon disulfide	<.50			1	05/21/01	
trans-1,2-Dichloroethene	<.50			1	05/21/01	
1,1-Dichloroethane	<.50			1	05/21/01	
2-Butanone	<10.			1	05/21/01	
cis-1,2-Dichloroethene	<.50			1	05/21/01	
Chloroform	<.50			1	05/21/01	
1,2-Dichloroethane	<.50			1	05/21/01	
1,1,1-Trichloroethane	<.50			1	05/21/01	
Carbon tetrachloride	<.50			1	05/21/01	
Benzene	.99			1	05/21/01	
1,2-Dichloropropane	<.50			1	05/21/01	
Trichloroethene	<.50			1	05/21/01	
Bromodichloromethane	<.50			1	05/21/01	
cis-1,3-Dichloropropene	<.50			1	05/21/01	
4-Methyl-2-pentanone	<5.0			1	05/21/01	
trans-1,3-Dichloropropene	<.50			1	05/21/01	
1,1,2-Trichloroethane	<.50			1	05/21/01	
Toluene	.95			1	05/21/01	
Dibromochloromethane	<.50			1	05/21/01	
2-Hexanone	<5.0			1	05/21/01	
Tetrachloroethene	<.50			1	05/21/01	
Chlorobenzene	1.1			1	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized:

Date: June 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: S5324
Samp. Description: M-25
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	J .12		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	.79		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	106.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	105.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	101.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	98.%	78-119	1	05/21/01	

Notes:

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

Authorized: 
Date: June 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: S5325
Samp. Description: M-26
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	05/21/01	
Vinyl chloride	<1.0		1	05/21/01	
Bromomethane	<1.0		1	05/21/01	
Chloroethane	<1.0		1	05/21/01	
Acetone	<10.		1	05/21/01	
1,1-Dichloroethene	<.50		1	05/21/01	
Methylene chloride	<2.0		1	05/21/01	
Carbon disulfide	<.50		1	05/21/01	
trans-1,2-Dichloroethene	<.50		1	05/21/01	
1,1-Dichloroethane	<.50		1	05/21/01	
2-Butanone	<10.		1	05/21/01	
cis-1,2-Dichloroethene	<.50		1	05/21/01	
Chloroform	<.50		1	05/21/01	
1,2-Dichloroethane	<.50		1	05/21/01	
1,1,1-Trichloroethane	<.50		1	05/21/01	
Carbon tetrachloride	<.50		1	05/21/01	
Benzene	<.50		1	05/21/01	
1,2-Dichloropropane	<.50		1	05/21/01	
Trichloroethene	<.50		1	05/21/01	
Bromodichloromethane	<.50		1	05/21/01	
cis-1,3-Dichloropropene	<.50		1	05/21/01	
4-Methyl-2-pentanone	<5.0		1	05/21/01	
trans-1,3-Dichloropropene	<.50		1	05/21/01	
1,1,2-Trichloroethane	<.50		1	05/21/01	
Toluene	<.50		1	05/21/01	
Dibromochloromethane	<.50		1	05/21/01	
2-Hexanone	<5.0		1	05/21/01	
Tetrachloroethene	<.50		1	05/21/01	
Chlorobenzene	<.50		1	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized:

Date: June 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: S5325
Samp. Description: M-26
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

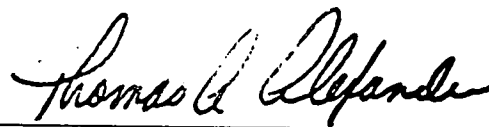
Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	<.50		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	105.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	105.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	102.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	101.%	78-119	1	05/21/01	

Notes:

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

Authorized:
Date: June 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: S5326
Samp. Description: RB
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog	Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0			1	05/21/01	
Vinyl chloride	<1.0			1	05/21/01	
Bromomethane	<1.0			1	05/21/01	
Chloroethane	<1.0			1	05/21/01	
Acetone	J 4.5			1	05/21/01	
1,1-Dichloroethene	<.50			1	05/21/01	
Methylene chloride	J .49			1	05/21/01	
Carbon disulfide	<.50			1	05/21/01	
trans-1,2-Dichloroethene	<.50			1	05/21/01	
1,1-Dichloroethane	<.50			1	05/21/01	
2-Butanone	<10.			1	05/21/01	
cis-1,2-Dichloroethene	<.50			1	05/21/01	
Chloroform	2.2			1	05/21/01	
1,2-Dichloroethane	<.50			1	05/21/01	
1,1,1-Trichloroethane	<.50			1	05/21/01	
Carbon tetrachloride	<.50			1	05/21/01	
Benzene	<.50			1	05/21/01	
1,2-Dichloropropane	<.50			1	05/21/01	
Trichloroethene	<.50			1	05/21/01	
Bromodichloromethane	1.6			1	05/21/01	
cis-1,3-Dichloropropene	<.50			1	05/21/01	
4-Methyl-2-pentanone	<5.0			1	05/21/01	
trans-1,3-Dichloropropene	<.50			1	05/21/01	
1,1,2-Trichloroethane	<.50			1	05/21/01	
Toluene	<.50			1	05/21/01	
Dibromochloromethane	1.2			1	05/21/01	
2-Hexanone	<5.0			1	05/21/01	
Tetrachloroethene	J .21			1	05/21/01	
Chlorobenzene	<.50			1	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized:

Date: June 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

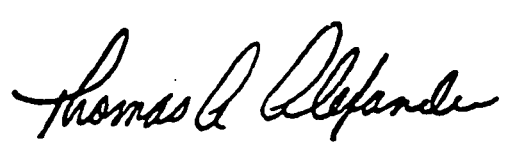
Sample: S5326
Samp. Description: RB
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	<.50		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	107.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	102.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	99.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	100.%	78-119	1	05/21/01	

Notes:

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

Authorized: 
Date: June 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: S5327
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed Notes
Chloromethane	<10.		10	05/21/01
Vinyl chloride	56.		10	05/21/01
Bromomethane	<10.		10	05/21/01
Chloroethane	18.		10	05/21/01
Acetone	800.		10	05/21/01
1,1-Dichloroethene	<5.0		10	05/21/01
Methylene chloride	J 1.8		10	05/21/01
Carbon disulfide	<5.0		10	05/21/01
trans-1,2-Dichloroethene	J 2.0		10	05/21/01
1,1-Dichloroethane	48.		10	05/21/01
2-Butanone	J 91.		10	05/21/01
cis-1,2-Dichloroethene	100.		10	05/21/01
Chloroform	J 2.3		10	05/21/01
1,2-Dichloroethane	7.8		10	05/21/01
1,1,1-Trichloroethane	8.7		10	05/21/01
Carbon tetrachloride	<5.0		10	05/21/01
Benzene	250.		10	05/21/01
1,2-Dichloropropane	<5.0		10	05/21/01
Trichloroethene	24.		10	05/21/01
Bromodichloromethane	<5.0		10	05/21/01
cis-1,3-Dichloropropene	<5.0		10	05/21/01
4-Methyl-2-pentanone	110.		10	05/21/01
trans-1,3-Dichloropropene	<5.0		10	05/21/01
1,1,2-Trichloroethane	<5.0		10	05/21/01
Toluene	220.		10	05/21/01
Dibromochloromethane	<5.0		10	05/21/01
2-Hexanone	<50.		10	05/21/01
Tetrachloroethene	21.		10	05/21/01
Chlorobenzene	120.		10	05/21/01

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 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: S5327
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
% Solids:
Purge volume: 25 mL

Parameter		Result	Surrog Limits	Dilution	Analyzed Notes
Ethylbenzene	E	430.		10	05/21/01
Bromoform		<5.0		10	05/21/01
Xylene (total)		810.		10	05/21/01
Styrene		<5.0		10	05/21/01
1,1,2,2-Tetrachloroethane		J 3.0		10	05/21/01
Dibromofluoromethane (surrogate)		107.%	70-131	10	05/21/01
1,2-Dichloroethane-d4 (surrogate)		107.%	81-120	10	05/21/01
Toluene-d8 (surrogate)		100.%	83-117	10	05/21/01
Bromofluorobenzene (surrogate)		100.%	78-119	10	05/21/01

Notes:

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 4, 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
Proj. Desc: Oswego N.Y.

Job No.: 3027.333.517
Certification NY No.: 10155

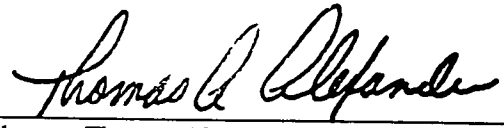
Sample: S5327DL
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/23/01
Matrix: Water
QC Batch: 052301W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<25.		25	05/23/01	
Vinyl chloride	J 23.		25	05/23/01	
Bromomethane	<25.		25	05/23/01	
Chloroethane	<25.		25	05/23/01	
Acetone	320.		25	05/23/01	
1,1-Dichloroethene	<12.		25	05/23/01	
Methylene chloride	<50.		25	05/23/01	
Carbon disulfide	<12.		25	05/23/01	
trans-1,2-Dichloroethene	<12.		25	05/23/01	
1,1-Dichloroethane	19.		25	05/23/01	
2-Butanone	J 40.		25	05/23/01	
cis-1,2-Dichloroethene	41.		25	05/23/01	
Chloroform	<12.		25	05/23/01	
1,2-Dichloroethane	J 3.8		25	05/23/01	
1,1,1-Trichloroethane	J 3.4		25	05/23/01	
Carbon tetrachloride	<12.		25	05/23/01	
Benzene	97.		25	05/23/01	
1,2-Dichloropropane	<12.		25	05/23/01	
Trichloroethene	J 9.5		25	05/23/01	
Bromodichloromethane	<12.		25	05/23/01	
cis-1,3-Dichloropropene	<12.		25	05/23/01	
4-Methyl-2-pentanone	J 46.		25	05/23/01	
trans-1,3-Dichloropropene	<12.		25	05/23/01	
1,1,2-Trichloroethane	<12.		25	05/23/01	
Toluene	86.		25	05/23/01	
Dibromochloromethane	<12.		25	05/23/01	
2-Hexanone	<120.		25	05/23/01	
Tetrachloroethene	J 8.4		25	05/23/01	
Chlorobenzene	47.		25	05/23/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 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: S5327DL
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/23/01
Matrix: Water
QC Batch: 052301W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	180.		25	05/23/01	
Bromoform	<12.		25	05/23/01	
Xylene (total)	330.		25	05/23/01	
Styrene	<12.		25	05/23/01	
1,1,2,2-Tetrachloroethane	<12.		25	05/23/01	
Dibromofluoromethane (surrogate)	104.%	70-131	25	05/23/01	
1,2-Dichloroethane-d4 (surrogate)	100.%	81-120	25	05/23/01	
Toluene-d8 (surrogate)	99.%	83-117	25	05/23/01	
Bromofluorobenzene (surrogate)	100.%	78-119	25	05/23/01	

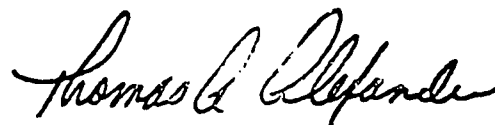
Notes:

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

Authorized:

Date: June 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: S5327DLRE
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/29/01
Matrix: Water
QC Batch: 052901W2
%Solids:
Purge volume: 25 mL

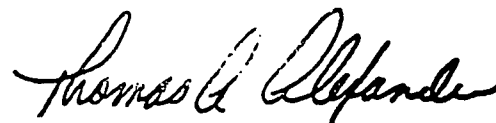
Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<25.		25	05/29/01	
Vinyl chloride	46.		25	05/29/01	
Bromomethane	<25.		25	05/29/01	
Chloroethane	<25.		25	05/29/01	
Acetone	760.		25	05/29/01	
1,1-Dichloroethene	<12.		25	05/29/01	
Methylene chloride	<50.		25	05/29/01	
Carbon disulfide	J 3.6		25	05/29/01	
trans-1,2-Dichloroethene	<12.		25	05/29/01	
1,1-Dichloroethane	41.		25	05/29/01	
2-Butanone	J 98.		25	05/29/01	
cis-1,2-Dichloroethene	87.		25	05/29/01	
Chloroform	J 3.2		25	05/29/01	
1,2-Dichloroethane	J 7.5		25	05/29/01	
1,1,1-Trichloroethane	J 6.7		25	05/29/01	
Carbon tetrachloride	<12.		25	05/29/01	
Benzene	220.		25	05/29/01	
1,2-Dichloropropane	<12.		25	05/29/01	
Trichloroethene	20.		25	05/29/01	
Bromodichloromethane	<12.		25	05/29/01	
cis-1,3-Dichloropropene	<12.		25	05/29/01	
4-Methyl-2-pentanone	J 120.		25	05/29/01	
trans-1,3-Dichloropropene	<12.		25	05/29/01	
1,1,2-Trichloroethane	<12.		25	05/29/01	
Toluene	190.		25	05/29/01	
Dibromochloromethane	<12.		25	05/29/01	
2-Hexanone	<120.		25	05/29/01	
Tetrachloroethene	18.		25	05/29/01	
Chlorobenzene	110.		25	05/29/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized:

Date: June 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

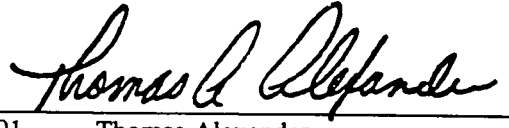
Sample: S5327DLRE
Samp. Description: LCW-2
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01 Matrix: Water
Received: 05/09/01 QC Batch: 052901W2
Prepared: 05/29/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	380.		25	05/29/01	
Bromoform	<12.		25	05/29/01	
Xylene (total)	730.		25	05/29/01	
Styrene	<12.		25	05/29/01	
1,1,2,2-Tetrachloroethane	<12.		25	05/29/01	
Dibromofluoromethane (surrogate)	100.%	70-131	25	05/29/01	
1,2-Dichloroethane-d4 (surrogate)	100.%	81-120	25	05/29/01	
Toluene-d8 (surrogate)	98.%	83-117	25	05/29/01	
Bromofluorobenzene (surrogate)	99.%	78-119	25	05/29/01	

Notes:

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

Authorized: 
Date: June 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

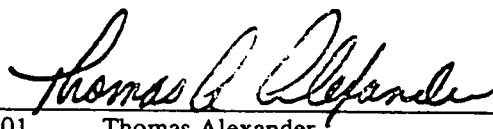
Sample: S5328
Samp. Description: LCW-4
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
% Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<50.		50	05/21/01	
Vinyl chloride	76.		50	05/21/01	
Bromomethane	<50.		50	05/21/01	
Chloroethane	J 35.		50	05/21/01	
Acetone	1400.		50	05/21/01	
1,1-Dichloroethene	<25.		50	05/21/01	
Methylene chloride	J 10.		50	05/21/01	
Carbon disulfide	<25.		50	05/21/01	
trans-1,2-Dichloroethene	<25.		50	05/21/01	
1,1-Dichloroethane	76.		50	05/21/01	
2-Butanone	J 150.		50	05/21/01	
cis-1,2-Dichloroethene	200.		50	05/21/01	
Chloroform	J 6.6		50	05/21/01	
1,2-Dichloroethane	J 15.		50	05/21/01	
1,1,1-Trichloroethane	J 7.4		50	05/21/01	
Carbon tetrachloride	<25.		50	05/21/01	
Benzene	410.		50	05/21/01	
1,2-Dichloropropane	<25.		50	05/21/01	
Trichloroethene	J 15.		50	05/21/01	
Bromodichloromethane	<25.		50	05/21/01	
cis-1,3-Dichloropropene	<25.		50	05/21/01	
4-Methyl-2-pentanone	J 220.		50	05/21/01	
trans-1,3-Dichloropropene	<25.		50	05/21/01	
1,1,2-Trichloroethane	<25.		50	05/21/01	
Toluene	560.		50	05/21/01	
Dibromochloromethane	<25.		50	05/21/01	
2-Hexanone	<250.		50	05/21/01	
Tetrachloroethene	J 7.3		50	05/21/01	
Chlorobenzene	230.		50	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 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

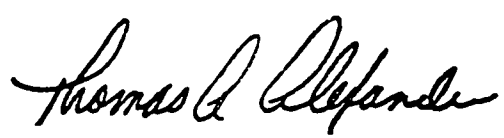
Sample: S5328
Samp. Description: LCW-4
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01 Matrix: Water
Received: 05/09/01 QC Batch: 052101W2
Prepared: 05/21/01 %Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	940.		50	05/21/01	
Bromoform	<25.		50	05/21/01	
Xylene (total)	1900.		50	05/21/01	
Styrene	<25.		50	05/21/01	
1,1,2,2-Tetrachloroethane	<25.		50	05/21/01	
Dibromofluoromethane (surrogate)	107.%	70-131	50	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	101.%	81-120	50	05/21/01	
Toluene-d8 (surrogate)	101.%	83-117	50	05/21/01	
Bromofluorobenzene (surrogate)	96.%	78-119	50	05/21/01	

Notes:

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

Authorized: 
Date: June 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: S5329
Samp. Description: QC Trip Blank
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Chloromethane	<1.0		1	05/21/01	
Vinyl chloride	<1.0		1	05/21/01	
Bromomethane	<1.0		1	05/21/01	
Chloroethane	<1.0		1	05/21/01	
Acetone	<10.		1	05/21/01	
1,1-Dichloroethene	<.50		1	05/21/01	
Methylene chloride	J .32		1	05/21/01	
Carbon disulfide	J .25		1	05/21/01	
trans-1,2-Dichloroethene	<.50		1	05/21/01	
1,1-Dichloroethane	<.50		1	05/21/01	
2-Butanone	<10.		1	05/21/01	
cis-1,2-Dichloroethene	<.50		1	05/21/01	
Chloroform	<.50		1	05/21/01	
1,2-Dichloroethane	<.50		1	05/21/01	
1,1,1-Trichloroethane	<.50		1	05/21/01	
Carbon tetrachloride	<.50		1	05/21/01	
Benzene	<.50		1	05/21/01	
1,2-Dichloropropane	<.50		1	05/21/01	
Trichloroethene	<.50		1	05/21/01	
Bromodichloromethane	<.50		1	05/21/01	
cis-1,3-Dichloropropene	<.50		1	05/21/01	
4-Methyl-2-pentanone	<5.0		1	05/21/01	
trans-1,3-Dichloropropene	<.50		1	05/21/01	
1,1,2-Trichloroethane	<.50		1	05/21/01	
Toluene	<.50		1	05/21/01	
Dibromochloromethane	<.50		1	05/21/01	
2-Hexanone	<5.0		1	05/21/01	
Tetrachloroethene	<.50		1	05/21/01	
Chlorobenzene	<.50		1	05/21/01	

- Outside control limits J-Estimated value

E - Concentration exceeded the calibration range and is estimated

Authorized: 

Date: June 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: S5329
Samp. Description: QC Trip Blank
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 38

Collected: 05/09/01
Received: 05/09/01
Prepared: 05/21/01
Matrix: Water
QC Batch: 052101W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Ethylbenzene	<.50		1	05/21/01	
Bromoform	<.50		1	05/21/01	
Xylene (total)	<.50		1	05/21/01	
Styrene	<.50		1	05/21/01	
1,1,2,2-Tetrachloroethane	<.50		1	05/21/01	
Dibromofluoromethane (surrogate)	106.%	70-131	1	05/21/01	
1,2-Dichloroethane-d4 (surrogate)	103.%	81-120	1	05/21/01	
Toluene-d8 (surrogate)	99.%	83-117	1	05/21/01	
Bromofluorobenzene (surrogate)	100.%	78-119	1	05/21/01	

Notes:

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

Authorized:

Date: June 4, 2001



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: S5327
Samp. Description: LCW-2

Collected: 05/09/01 10:45 Matrix: Water
Received: 05/09/01 18:20

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	74.	mg/L	EPA 405.1		05/10/01	051001W11	
COD	210.	mg/L	EPA 410.4		05/24/01	052301W21	
Total dissolved solids	2000.	mg/L	EPA 160.1		05/10/01	051001W22	
Total organic carbon	80	mg/L	EPA 415.1		05/25/01	052501W24	
Total suspended solids	39.	mg/L	EPA 160.2		05/15/01	051501W21	

Notes:

Sample: S5328
Samp. Description: LCW-4

Collected: 05/09/01 11:00 Matrix: Water
Received: 05/09/01 18:20

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
BOD 5	150.	mg/L	EPA 405.1		05/10/01	051001W11	
COD	340.	mg/L	EPA 410.4		05/24/01	052301W21	
Total dissolved solids	2700.	mg/L	EPA 160.1		05/10/01	051001W22	
Total organic carbon	110.	mg/L	EPA 415.1		05/25/01	052501W24	
Total suspended solids	130.	mg/L	EPA 160.2		05/15/01	051501W21	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: 

Date: May 30, 2001

Thomas Alexander

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

Not kept. Stop Boxed.
J. R. Strang
7/20/01

Yes _____
 No _____
 Yes _____
 No _____

ASME 476 700 70
10/02/15

File on eDOCs X Yes _____ No _____
Site Name PAS
Site No. 738001
County Oswego
Town Oswego
Foitable X Yes _____ No _____
File Name 2001-07-10, Q7-01 Report
Scanned & eDOC _____