

II - A

3RD QUARTER REPORT - 2010

**QUARTERLY PROGRESS REPORT 3<sup>rd</sup> QUARTER 2010**  
***Operation, Maintenance and Long-term Monitoring Activities***

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

**PERIOD COVERED:** July - September (3<sup>rd</sup> Quarter) 2010

**ACTIONS TAKEN DURING PREVIOUS QUARTER:**

- The 2010 PAS Oswego Site Annual Progress Report was submitted to EPA on July 30, 2010. This Annual Progress Report indicated, among other things, that construction of a hookup to the City of Oswego's Eastside Wastewater Treatment Facility would be completed. It also included a request to abandon several on-site monitoring wells.
- On July 20, 2010, the City of Oswego issued a Wastewater Discharge Permit for Significant Industrial Users for discharge of leachate from the PAS site into the City of Oswego's Eastside Wastewater Treatment Facility. A copy of this permit was submitted to EPA on July 30, 2011. This permit requires, among other things, that the leachate discharge be monitored for flow, pH and temperature during each removal event. It also requires semi-annual sampling of the leachate discharge for monitoring of other constituents including metals, cyanide, total phenols, TSS and BOD. The discharge is to be sampled for Priority Pollutants every three years under the permit.
- Received concurrence from EPA and ordered certain long-lead time equipment (leachate discharge pump) needed to complete the construction of the hookup into the City's sewer system in October 2010.
- EPA's Explanation of Significant Differences (ESD) was completed and signed on September 30, 2010. This ESD provides for discharge of leachate into the City of Oswego Eastside Wastewater Treatment Facility as the primary treatment and disposal option. Off-site treatment and disposal of leachate was retained as a contingent option in the ESD. The City of Auburn New York Wastewater Treatment Facility continued to be the approved facility for off-site leachate treatment and disposal option, if deemed necessary.

- Leachate removal, and site maintenance 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 31,800 gallons of leachate was removed during the period of July 2010 through September 2010. 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".
- OP-TECH Environmental Services provided the transportation of the leachate, which was arranged by O'Brien & Gere Operations (O'Brien & Gere). Leachate was transported as a non-hazardous waste and disposed at the City of Auburn New York Wastewater Treatment Facility.
- Routine ground water elevation monitoring was performed on July 14, August 2, and September 13, 2010 for wells SWW-1 through SWW-12, and LCW-1 through LCW- 4.
- On August 2, 2010 quarterly ground water elevation monitoring was performed. Quarterly ground-water elevation results for the M-series wells M-21 through M-23, LR-series wells LR-2, -3, along with OS-1, OI-1, OS-3, OD-3, LD-3, LD-4, LD-5, LD-6, LD-8, LR-6, LR-8 and LS-6 were recorded.
- Site maintenance activities were conducted on July 14 and 16, August 31, and September 22, 2010. These maintenance activities included the visual inspection of the slurry wall containment cap and the french drainage system. It also included inspection of the perimeter security fence, as well as removal of shallow rooted vegetation, vines and fallen tree limbs in the fencing area.
- An exterior inspection of the leachate collection tank, protective weather cover, and well pump controls were performed with no anomalies reported. Additional site inspections included the external monitoring well casings, the equipment storage shed that is used to house the spill control materials, and the bag filtration unit.
- During this reporting period, an O'Brien & Gere Field Technician applied sodium hydroxide in pellet form and powdered hydrated lime into the leachate water contained within the leachate-holding tank, during the time the LCW-1, 2, & 4 well pumps were operated. Chemical additives were mixed in the tank by means of the leachate flow being pumped into this tank. These two chemicals were used to aid the removal of soluble iron from the leachate, enabling the leachate to conform to the City of Auburn Wastewater Treatment Facility permit requirements.
- The July leachate removal event was postponed until August. That resulted in no leachate being pumped into the leachate collection tank, or transported off-site to the City of Auburn, NY in July. EPA was notified on July 20, 2010 that a July removal event could not be scheduled as the approval anticipated for obtaining a permit for leachate discharge into the Oswego Eastside Wastewater Treatment Facility had been delayed. O'Brien & Gere contacted OP-Tech to see if trucks would be available to schedule a removal later in July, but no trucks were available at that time.

- For August and September 2010, leachate water was pumped into three (3) OP-TECH Environmental Services, DOT registered, transportation vehicles. One 3000-gallon capacity vactor truck and two 8000-gallon capacity transport tanker vehicles were used to transport a total of 19,000 gallons in August and 12,800 gallons in September to Auburn's Wastewater Treatment Facility. During this quarter, a total of 31,800 gallons of leachate from the site. The leachate was pumped from the collection tank into each transport vehicle using an in-line bag filtration system, provided by O'Brien & Gere. This unit was used to capture and enhance the removal of suspended iron and suspended solids.
- Quarterly leachate grab sampling was conducted on August 4, 2010, as required by the City of Auburn Wastewater Treatment Facility discharge permit. One leachate grab sample was taken from each of two tanker truck inlet suction hose, as the leachate was transferred from the leachate collection tank into the OP-TECH transportation vehicle.

**RESULTS OF FIELD ACTIVITIES:**

- Monthly ground-water elevation monitoring data collected on July 14, August 2, and September 13, 2010 is provided in Attachment A-1. In addition quarterly ground-elevation monitoring data collected on August 2 is also provided. (See Attachment A-1)
- The completed routine Leachate Disposal Checklists and Site Inspection Checklists for the monthly removal events are attached. (See attachment A-2.)
- Quarterly leachate collection tank sampling data required for disposal purposes by the City of Auburn New York is attached to this report. (See attachment A-5.)

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

- Non-hazardous waste manifests for the August and September removal events are attached to this report. (See attachment A-3)
- Waste Treatment/Disposal Verification forms are attached to this report. (See attachment A-4)

A tabular summary of the manifested loads of leachate shipped off-site for treatment and disposal at the Auburn Wastewater Treatment Facility is provided in the following.

**3<sup>rd</sup> QUARTER 2010 WASTE MANIFESTS**

**August 4, 2010**

<b>Manifest #</b>	<b>Amount (gal)</b>	<b>Date Removed</b>
OPT0059	8000	8/4/2010
OPT0060	3000	8/4/2010
OPT0061	8000	8/4/2010

*Total Gallons Removed on August 4<sup>th</sup> 2010 - 19,000 gallons*

**September 15, 2010**

<b>Manifest #</b>	<b>Amount (gal)</b>	<b>Date Removed</b>
OPT0062	8000	9/15/2010
OPT0063	4800	9/15/2010

*Total Gallons Removed on September 15, 2010 - 12,800 gallons*

***ATTACHMENT A-1***

***GROUND-WATER ELEVATION DATA***





O'Brien G. Operation  
 P. A. te

Oswego, New York

Pre-Pumping Monitoring Well Levels

August 2, 2010  
 10:00 AM

Well Number	Ground		Riser			August 2010				Within Range?			Ground-Water	
	Elevation		Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation			
SWW1	286.20		289.33	9.98	9.98	9.98	10.50	10.13	11.00	No	279.35			
SWW2	286.30		289.37	15.68	15.68	15.68	15.89	15.65	16.25	Yes	273.69			
SWW3	286.00		286.50	17.18	17.18	17.18	17.05	16.76	17.32	Yes	269.32			
SWW4	282.90		283.60	15.72	15.72	15.72	16.77	16.03	18.00	No	267.88			
SWW5	275.90		277.02	12.56	12.56	12.56	12.86	12.26	13.90	Yes	264.46			
SWW6	270.90		273.06	9.29	9.29	9.29	9.56	9.15	10.00	Yes	263.77			
SWW7	273.30		277.93	7.92	7.92	7.92	8.31	8.04	8.64	No	270.01			
SWW8	275.70		278.24	4.89	4.89	4.89	6.94	5.52	9.01	No	273.35			
SWW9	283.30		285.55	17.50	17.50	17.50	17.68	17.45	17.98	Yes	268.05			
SWW10	279.30		280.43	12.72	12.72	12.72	14.87	14.10	16.42	No	267.71			
SWW11	271.00		273.50	8.90	8.90	8.90	8.97	8.42	9.92	Yes	264.60			
SWW12	270.20		272.82	11.68	11.68	11.68	13.01	11.45	14.55	Yes	261.14			
LCW-1	271.40		272.21	7.63	7.63	7.63	7.89	7.80	8.24	No	264.58			
LCW-2	272.60		274.44	9.87	9.87	9.87	10.14	10.05	10.50	No	264.57			
LCW-3	283.30		284.36	18.31	18.31	18.31	18.03	17.74	18.03	No	266.05			
LCW-4	283.80		285.70	17.66	17.66	17.66	17.75	17.10	18.48	Yes	268.04			
OS-1	269.63		272.10	11.82	11.82	11.82	12.71	12.58	13.74	No	260.28			
OI-1	269.14		272.00	12.45	12.45	12.45	12.88	12.70	13.48	No	259.55			
OS-3	274.63		277.89	15.58	15.58	15.58	16.08	15.92	16.75	No	262.31			
OD-3	274.96		277.85	15.45	15.45	15.45	15.94	15.78	16.60	No	262.40			
LD-3	275.80		278.62	5.24	5.24	5.24	6.23	5.90	7.55	No	273.38			
LD-4	276.30		279.25	12.14	12.14	12.14	13.22	13.30	14.22	No	267.11			
LD-5	270.02		272.94	12.55	12.55	12.55	13.06	12.14	14.48	Yes	260.39			
LS-6	271.40		274.14	12.58	12.58	12.58	13.12	12.60	14.17	No	261.56			
LD-6	270.09		274.03	11.88	11.88	11.88	12.35	11.68	13.50	Yes	262.15			
LD-8	269.90		272.83	8.90	8.90	8.90	9.40	9.33	9.96	No	263.93			
LR-2	287.50		289.85	13.56	13.56	13.56	14.11	13.82	14.95	No	276.29			
LR-3	275.50		278.06	8.54	8.54	8.54	9.07	8.74	9.92	No	269.52			
LR-6	270.90		274.39	11.00	11.00	11.00	11.17	10.78	11.73	Yes	263.39			
LR-8	270.00		273.42	10.47	10.47	10.47	10.87	10.83	11.32	No	262.95			
M-21	270.28		272.32	10.06	10.06	10.06	10.46	10.42	10.90	No	262.26			
M-22	270.40		273.88	10.94	10.94	10.94	11.12	10.74	11.68	Yes	262.94			
M-23	267.98		270.49	13.12	13.12	13.12	13.32	13.22	13.62	No	257.37			



***ATTACHMENT A-2***

***SITE INSPECTION CHECKLIST  
AND LEACHATE DISPOSAL CHECKLIST***



PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 7-14-10

Time 8:00

Field Technician MARTIN KOENIGKE Weather P-SUNNY 75°

Site Feature	Check ✓	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	✓	NONE VISABLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK GROWN OVER WITH VEG.
French drain	✓	OK
Weeds	✓	NA
<b>Leachate Collection System / Building</b>		
Pumps	✓	RESPONDING
Pump controls / alarms	✓	NA
Tank level	✓	7.5"
<b>Monitoring Wells</b>		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
<b>General Site Condition</b>		
Foliage	✓	GOOD
Perimeter fence	✓	OK NEED ATTENTION IN MARSH AREA
Site access driveway	✓	OK
Stream gauges	✓	NA
<b>Other Items</b>		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

MONTHLY well levels , STARTED MOWING SITE

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O'BRIEN & GERE

PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 7-16-10

Time 8:00 AM

Field Technician MARINA KOENIG Weather PASSING THUNDER STORMS 80°

Site Feature	Check ✓	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	✓	NONE VISIBLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK will need cleaning out veg.
French drain	✓	OK
Weeds	✓	NA
<b>Leachate Collection System / Building</b>		
Pumps	✓	RESPONDING
Pump controls / alarms	✓	NA
Tank level	✓	7.5"
<b>Monitoring Wells</b>		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
<b>General Site Condition</b>		
Foliage	✓	GOOD
Perimeter fence	✓	OK NEED WORK IN MARSH
Site access driveway	✓	OK
Stream gauges	✓	NA
<b>Other Items</b>		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

FINISHED MOWING SITE WEED TRIMMING AROUND  
TANK + SHED.



O'BRIEN & GERE

PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 8-2-10

Time 10:00

Field Technician MARTIN KOENNECKE Weather sunny 75°

Site Feature	Check √	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	✓	NONE VISABLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK NEEDS TO BE CLEANED OUT
French drain	✓	OK
Weeds	✓	NA.
<b>Leachate Collection System / Building</b>		
Pumps	✓	Responding
Pump controls / alarms	✓	NA
Tank level	✓	7.5" START - Pump + TREAT - 48.5" STOP
<b>Monitoring Wells</b>		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
<b>General Site Condition</b>		
Foliage	✓	GOOD
Perimeter fence	✓	OK
Site access driveway	✓	OK
Stream gauges	✓	NA
<b>Other Items</b>		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

QUARTERLY well levels , Pump + TREAT for WEEKDAYS  
PUMP OUT

FENCE IN MARSH NEED REPAIR  
CONCRETE TROUGH NEEDS VEGETATION SHOVELLED OUT AND TRIMMED



PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 8-31-10

Time 11:00

Field Technician MARTIN KOENIG Weather Sunny 118°

Site Feature	Check √	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	✓	None visible
Cap vegetation	✓	Good
Concrete drainage trough	✓	OK
French drain	✓	OK
Weeds	✓	NA
<b>Leachate Collection System / Building</b>		
Pumps	✓	Responding
Pump controls / alarms	✓	NA
Tank level	✓	10"
<b>Monitoring Wells</b>		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
<b>General Site Condition</b>		
Foliage	✓	Good
Perimeter fence	✓	OK IN MARSH NEED WORK
Site access driveway	✓	OK
Stream gauges	✓	NA
<b>Other Items</b>		
Equipment storage shed	✓	Good
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

2ND MONTHLY INSPECTION

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PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 9-13-10

Time 9:00

Field Technician MARTIN KOENIGKE Weather P-Sunny 60°

Site Feature	Check ✓	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	✓	NONE VISIBLE
Cap vegetation	✓	GOOD
Concrete drainage trough	✓	OK
French drain	✓	OK
Weeds	✓	NA
<b>Leachate Collection System / Building</b>		
Pumps	✓	Responding
Pump controls / alarms	✓	NA
Tank level	✓	10"
<b>Monitoring Wells</b>		
Locks	✓	OK
Riser	✓	OK
Surface completion	✓	NA
<b>General Site Condition</b>		
Foliage	✓	GOOD
Perimeter fence	✓	OK - MARSH ON NE NEED ATTENTION
Site access driveway	✓	OK
Stream gauges	✓	NA
<b>Other Items</b>		
Equipment storage shed	✓	GOOD
Fire extinguishers	✓	OK
Spill control material	✓	STOCKED
PPE	✓	STOCKED

Remarks (use separate sheet is required)

MONTHLY well levels, Pump & TREAT

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PAS Oswego  
Oswego, NY

Site Inspection Checklist

Date 9-22-10

Time 10:00

Field Technician MARIN KOENIGKE

Weather RAIN SHOWERS

Site Feature	Check √	Condition / Maintenance Performed
<b>Cap</b>		
Burrowing Animals	√	NONE VISIBLE
Cap vegetation	√	GOOD
Concrete drainage trough	√	OK - CLEANING OUT VEGETATION
French drain	√	OK
Weeds	√	NA
<b>Leachate Collection System / Building</b>		
Pumps	√	Responding
Pump controls / alarms	√	NA
Tank level	√	7"
<b>Monitoring Wells</b>		
Locks	√	OK
Riser	⊗	OK
Surface completion	√	NA
<b>General Site Condition</b>		
Foliage	√	GOOD
Perimeter fence	√	OK NEED ATTENTION IN MARSH AREA
Site access driveway	√	OK
Stream gauges	√	NA
<b>Other Items</b>		
Equipment storage shed	√	GOOD
Fire extinguishers	√	OK
Spill control material	√	STOCKED
PPE	√	STOCKED

Remarks (use separate sheet is required)

SECOND MONTHLY INSPECTION  
CLEANING CONCRETE TROUGH - WEED WHACKING AND SHOVEL OUT  
VEGETATION



O'BRIEN & GERE

PAS Site  
Oswego, New York

Leachate Disposal Checklist

Field Technician: MARTIN Koennecke Time on-site: 10:00  
Transportation Subcontractor: NA  
Leachate Destination: NA Pump + TREAT  
Date: 8-2-10

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate Calculation
	Start Time	Stop Time	Time	Tank Elev. (Down)	
LCW-1	12:00	1:20			
LCW-2	12:00	1:20			
LCW-3	NOT PUMPED				
LCW-4	12:00	1:20			
Leachate Holding Tank Height:					
Start <u>7.5"</u>					
Stop   <u>PH- 6.4, FE 20±</u> ADDED <u>70 lbs</u>					
End <u>48.5"</u>   <u>CAUSTIC SODA .5 lbs LIME</u>					
Initial Flow Meter Reading: <u>48.5" - PH 8.2, FE-300</u>					
Final Flow Meter Reading:					

Load	(Pre-Loading) Tanker		(Post-Loading) Tanker		Destination	Gallons
	Time Start	Confirmed Clean	Time Stop	Tanker Volume (by Stick Mass)	Manifest(s) Numbers	
Load #1						
Load #2						
Load #3						
Load #4						



PAS Site  
Oswego, New York

Leachate Disposal Checklist

Field Technician: MARTIN KOENNECKE Time on-site: 6:30 AM

Transportation Subcontractor: ORTECH ENVIRONMENTAL SERVICES

Leachate Destination: ALBURN WATER POLLUTION CONTROL PLANT

Date: 8-4-10

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate Calculation
	Start Time	Stop Time	Time	Tank Elev. (Down)	
LCW-1	8:30	9:15			
LCW-2	8:30	9:15			
LCW-3	NOT PUMPED				
LCW-4	8:30	9:15			

Leachate Holding Tank Height:

Start 48.5" Loaded 2 LOADS 8,000 + 3,000 Loaded 36" 12.5 LEFT

Stop PUMPED TO 35.5" PH - 6.8 FE 20' ADDED 30 lbs

End CAUSTIC SODA PH - 7.8 FE - 3.2

Initial Flow Meter Reading: 10" after 3 Loads LOADED

Final Flow Meter Reading:

Load	(Pre-Loading) Tanker		(Post-Loading) Tanker		Destination	Gallons
	Time Start	Confirmed Clean	Time Stop	Tanker Volume (by Stick Mass)	Manifest(s) Numbers	
Load #1	7:00	Yes	7:50	49"	OPT-059	8,000
Load #2	7:55	Yes	8:20	65"	OPT-060	3,000
Load #3	11:05	Yes	12:10	49"	OPT-061	8,000
Load #4						



O'BRIEN & GERE

PAS Site  
Oswego, New York

Leachate Disposal Checklist

Field Technician: MARTIN KOENNECKE Time on-site: 9:00  
Transportation Subcontractor: NA  
Leachate Destination: Pump + Treat  
Date: 9-13-10

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate Calculation
	Start Time	Stop Time	Time	Tank Elev. (Down)	
LCW-1	10:25	11:45			
LCW-2	10:25	11:45			
LCW-3	NOT PUMPED				
LCW-4	10:25	11:45			
Leachate Holding Tank Height:					
Start <u>10"</u> STOP -- <u>48.5"</u> PH - <u>6.4</u> FE. - <u>120 mg/L</u>					
<del>Stop</del> ADDED <u>50 lbs KAUSTIC SODA BEADS</u> & <u>5 lbs Lime</u>					
End <u>PH - 7.6</u>   <u>FE - 3.2 mg/L</u>					
Initial Flow Meter Reading:					
Final Flow Meter Reading:					

Load	(Pre-Loading) Tanker		(Post-Loading) Tanker		Destination	Gallons
	Time Start	Confirmed Clean	Time Stop	Tanker Volume (by Stick Mass)	Manifest(s) Numbers	
Load #1						
Load #2						
Load #3						
Load #4						



O'BRIEN & GERE

PAS Site  
Oswego, New York

Leachate Disposal Checklist

Field Technician: MARTIN KOENNECKE Time on-site: 6:45

Transportation Subcontractor: OP-TECH ENVIRONMENTAL SERVICES

Leachate Destination: AUBURN WATER POLLUTION CONTROL PLANT

Date: 9-15-10

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate Calculation
	Start Time	Stop Time	Time	Tank Elev. (Down)	
LCW-1					PUMPED 9-13-10
LCW-2					
LCW-2					
LCW-4					
Leachate Holding Tank Height:					
Start <u>48.5"</u> /					
Stop <u>7"</u> /					
End <del>41.5"</del> <u>LOADED 41.5" = 12,800 gal</u>					
Initial Flow Meter Reading:					
Final Flow Meter Reading:					

Load	(Pre-Loading) Tanker		(Post-Loading) Tanker		Destination	Gallons
	Time Start	Confirmed Clean	Time Stop	Tanker Volume (by Stick Mass)	Manifest(s) Numbers	
Load #1	<u>7:15</u>	<u>Yes</u>	<u>8:00</u>	<u>48.5"</u>	<u>OPT-062</u>	<u>8,000</u>
Load #2	<u>8:10</u>	<u>Yes</u>	<u>8:45</u>	<u>51"</u>	<u>OPT-063</u>	<u>4,800</u>
Load #3						
Load #4						

*ATTACHMENT A-3*

*NON-HAZARDOUS WASTE MANIFESTS*

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on eight (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. N Y D 0 0 0 5 1 1 8 5 9		Manifest Document No. OPT-059		2. Page 1 of 1	
3. Generator's Name and Mailing Address Participating Parties C/O O'Brien & Gere Operations 5000 Brittonfield Pkwy, E Syracuse, NY 13057				55 Seneca Street Oswego, NY 13126			
4. Generator's Phone ( ) 315-437-6100 Alt. Kevin Stone							
5. Transporter 1 Company Name OP-TECH Environmental Services, Inc.		8. US EPA ID Number N Y D 9 8 8 9 8 0 7 5 3		A. State Transporter's ID 6A-155		B. Transporter 1 Phone 315-482-1843	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Auburn Water Pollution Control Plant 35 Bradley St. Auburn, NY 13021				10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone 315-253-6511			
11. WASTE DESCRIPTION			Containers No. Type		13. Total Quantity		14. Unit Wt./Vol
Non RCRA, Non DOT Regulated Liquids (Leachate Water)			1 TT		Est. 8,000		G
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above a. 49"				H. Handling Codes for Wastes Listed Above a. T c. b. d.			
15. Special Handling Instructions and Additional Information Emergency Response: OP-TECH Environmental Services, Inc. @ 1-800-225-6750 Job # SOBE0071							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name AS AGENT MARTIN KOENNECKE				Signature as agent Martin Koennecke		Date 8   4   10	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name Jeremie Walshvelo		Signature Jeremie Walshvelo		Month Day Year 8   4   10			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name Mark Watters				Signature Mark Watters		Date 8   4   10	

GENERATOR

NON-HAZARDOUS WASTE

TRANSPORTER

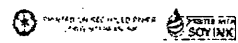
FACILITY

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NYD0000511859</b>		Manifest Document No. <b>OPT-080</b>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>PAS Participating Parties C/O O'Brien &amp; Gere Operations 5000 Brittonfield Pkwy, E Syracuse, NY 13057</b>				55 Seneca Street  Oswego, NY 13128			
4. Generator's Phone ( ) <b>315-437-6100 Attn. Kevin Stone</b>							
5. Transporter 1 Company Name <b>OP-TECH Environmental Services, Inc.</b>		6. US EPA ID Number <b>NYD088980753</b>		A. State Transporter's ID <b>6A-156</b>			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <b>315-483-1843</b>			
9. Designated Facility Name and Site Address <b>Auburn Water Pollution Control Plant 35 Bradley St. Auburn, NY 13021</b>		10. US EPA ID Number		C. State Transporter's ID <b>40600PA (NY)</b>		D. Transporter 2 Phone	
				E. State Facility's ID			
				F. Facility's Phone <b>315-253-6511</b>			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	14. Unit
				No. Type			Wt./Vol
<b>Non RCRA, Non DOT Regulated Liquids (Leachate Water)</b>				<b>1 TT</b>		<b>Est. 3,000</b>	<b>G</b>
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. <b>65"</b>				a. T c.			
				b. d.			
15. Special Handling Instructions and Additional Information <b>Emergency Response: OP-TECH Environmental Services, Inc. @ 1-800-225-6750 Job # SOBE0071</b>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <b>MARTIN Koennecke</b>				Signature <i>Martin Koennecke</i>		Date <b>8/4/10</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name <b>Michael Knorr</b>		Signature <i>Michael Knorr</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <b>Richard A. Wild Jr</b>				Signature <i>Richard A. Wild Jr</i>		Date <b>08/04/10</b>	

NON-HAZARDOUS WASTE GENERATOR





# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

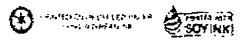
<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NYD000511659</b>		Manifest Document No. <b>OPT-061</b>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <b>PAS Participating Parties C/O O'Brien &amp; Gere Operations 5000 Brittonfield Pkwy, E Syracuse, NY 13067</b>				55 Seneca Street <b>Oswego, NY 13128</b>			
4. Generator's Phone ( ) <b>315-437-6100 Attn. Kevin Stone</b>							
5. Transporter 1 Company Name <b>OP-TECH Environmental Services, Inc.</b>		6. US EPA ID Number <b>NYD986980753</b>		A. State Transporter's ID <b>6A-166</b>		B. Transporter 1 Phone <b>315-483-1843</b>	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address <b>Auburn Water Pollution Control Plant 35 Bradley St. Auburn, NY 13021</b>				10. US EPA ID Number		E. State Facility's ID	
				F. Facility's Phone <b>315-253-6511</b>			
11. WASTE DESCRIPTION			Containers		13. Total Quantity	14. Unit Wt./Vol.	
			No.	Type			
Non RCRA, Non DOT Regulated Liquids (Leachate Water)			1	TT	Est. 8,000	G	
12. Additional Descriptions for Materials Listed Above			13. Handling Codes for Wastes Listed Above				
a. <b>49"</b>			a. T		c.		
			b.		d.		
15. Special Handling Instructions and Additional Information <b>Emergency Response: OP-TECH Environmental Services, Inc. @ 1-800-225-6750 Job # SOBED071</b>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <b>AS Agent MARTIN KOENNECKE</b>				Signature <b>AS Agent Martin Koenecke</b>		Date <b>8/4/10</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name <b>Jeremie Walshuko</b>				Signature <b>Jeremie Walshuko</b>		Date <b>8/4/10</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <b>Jeff Sikora</b>				Signature <b>Jeff Sikora</b>		Date <b>8/4/10</b>	

GENERATOR

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY



# NON-HAZARDOUS WASTE MANIFEST

Please print or type Form designed for use on 8 1/2 (12 pitch) typewriter

<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No. <b>NYD000511859</b>	Manifest Document No. <b>OPT-062</b>	2. Page 1 of 1
3. Generator Name and Mailing Address <b>PAS Participating Parties C/O O'Brien &amp; Gere Operations 5000 Brittonfield Pkwy, E Syracuse, NY 13057</b>		55 Seneca Street Oswego, NY 13126	
4. Generator's Phone ( ) <b>315-437-6100 Attn Kevin Stone</b>		A. State Transporter's ID <b>6A-155</b>	
5. Transporter 1 Company Name <b>OP-TECH Environmental Services, Inc.</b>		6. US EPA ID Number <b>NYD986980753</b>	
7. Transporter 2 Company Name		8. US EPA ID Number	
9. Designated Facility Name and Site Address <b>Auburn Water Pollution Control Plant 35 Bradley St. Auburn, NY 13021</b>		10. US EPA ID Number	
		B. Transporter 1 Phone <b>315-483-1843</b>	
		C. State Transporter's ID	
		D. Transporter 2 Phone	
		E. State Facility's ID	
		F. Facility's Phone <b>315-253-6511</b>	

GENERATOR

11. WASTE DESCRIPTION	Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. Non RCRA, Non DOT Regulated Liquids (Leachate Water)	1	TT	Est. <b>8,000</b>	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above a. <b>48 1/2"</b>	H. Handling Codes for Wastes Listed Above a. T b. c. d.
----------------------------------------------------------------------------	---------------------------------------------------------------------

15. Special Handling Instructions and Additional Information  
**Emergency Response: OP-TECH Environmental Services, Inc. @ 1-800-225-6750  
 Job # SOBE0071**

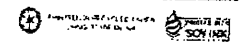
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are truly and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name <b>MARTIN KENNEDY</b>	Signature <i>Martin Kennedy</i>	Date Month Day Year <b>09/15/10</b>
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name <b>VANCE KELLEY</b>	Signature <i>Vance Kelley</i>	Date Month Day Year <b>09/1/10</b>
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Printed/Typed Name <b>Richard A Wild Jr</b>	Signature <i>Richard A Wild Jr</i>	Date Month Day Year <b>9/15/10</b>
------------------------------------------------	---------------------------------------	------------------------------------------



# NON-HAZARDOUS WASTE MANIFEST

Please Print or Type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NYD000511859</b>		Manifest Document No. <b>OPT-063</b>	2. Page 1 of 1
3. Generator's Name and Mailing Address <b>PAS Participating Parties C/O O'Brien &amp; Gere Operations 5000 Brittonfield Pkwy, E Syracuse, NY 13057</b>				55 Seneca Street	
4. Generator's Phone ( ) <b>315-437-6100 Attn. Kevin Stone</b>				Oswego, NY 13126	
5. Transporter 1 Company Name <b>OP-TECH Environmental Services, Inc.</b>		6. US EPA ID Number <b>NYD986980753</b>		A. State Transporter's ID <b>6A-166</b>	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <b>315-483-1843</b>	
9. Designated Facility Name and Site Address <b>Auburn Water Pollution Control Plant 35 Bradley St. Auburn, NY 13021</b>				C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <b>315-253-6511</b>	

11. WASTE DESCRIPTION	Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. Non RCRA, Non DOT Regulated Liquids (Leachate Water)	1	TT	Est. 4,900	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above	
a. <b>51"</b>		a. T                      c.	
		b.                              d.	

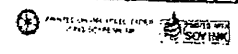
15. Special Handling Instructions and Additional Information  
**Emergency Response: OP-TECH Environmental Services, Inc. @ 1-800-225-6750  
 Job # SOBE0071**

18. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations

Printed/Typed Name <b>MARTIN KOENNECKE</b>		Signature <i>[Signature]</i>		Date <b>09/15/10</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <b>Michael Knorr</b>		Signature <i>[Signature]</i>		Date <b>09/15/10</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	

19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19					
Printed/Typed Name <b>Richard A. Wilder</b>		Signature <i>[Signature]</i>		Date <b>9/15/10</b>	

NON-HAZARDOUS WASTE



*ATTACHMENT A-4*

*WASTE TREATMENT/DISPOSAL VERIFICATIONS*



**O'BRIEN & GERE**

PAS Oswego Site Truck Unloading Verification Form

Date - 8-4-10

Unloading Facility

Auburn POTW, Auburn, New York

- Manifest # OPT-059 Estimated Gallons: 8,000
- Truck # or Plate; # 428 Tank Trailer # 8000
- Driver: Jeremie Walshelo

Stick Measurement:

- Loading: 49"
- Unloading (Auburn POTW); 49"

POTW Disposal

- Waste Disposal Approved By (Auburn POTW): *[Signature]*
  - Transported Waste Discharged into POTW
- Verified By: *[Signature]*

NOTE: Attached to Non-hazardous Manifest and submit to O'Brien & Gere Operations Manager.

Send To;  
 Kevin Stone  
 555 E Genesee St,  
 Fayetteville, New York 13221-4873  
 (315) 437-6100 / FAX (315) 463-7554

E-mail To :  
[stonekm@obg.com](mailto:stonekm@obg.com)



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**O'BRIEN & GERE**

PAS Oswego Site Truck Unloading Verification Form

Date -

Unloading Facility


Auburn POTW, Auburn, New York

- Manifest # OPT-060 Estimated Gallons: 3,000
- Truck # or Plate; # 503 Tank Trailer # \_\_\_\_\_
- Driver: Michael Kruger

Stick Measurement:

- Loading: 65"
- Unloading (Auburn POTW); \_\_\_\_\_

POTW Disposal

- Waste Disposal Approved By (Auburn POTW): 
- Transported Waste Discharged into POTW

Verified By : \_\_\_\_\_

NOTE: Attached to Non-hazardous Manifest and submit to O'Brien & Gere Operations Manager.

Send To;  
 Kevin Stone  
 555 E Genesee St,  
 Fayetteville, New York 13221-4873  
 (315) 437-6100 / FAX (315) 463-7554

E-mail To :  
[stonekm@ohg.com](mailto:stonekm@ohg.com)



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 O'Brien & Gere Engineers, Inc. is a Woman-Owned Business Enterprise.  
 O'Brien & Gere Engineers, Inc. is a Veteran-Owned Business Enterprise.



# O'BRIEN & GERE

## PAS Oswego Site Truck Unloading Verification Form

Date - 8-4-10

### Unloading Facility

Auburn POTW, Auburn, New York

- Manifest # OPT-061 Estimated Gallons: 8000
- Truck # or Plate; # 428 Tank Trailer # 8000
- Driver; Jeremie Walkhela

### Stick Measurement:

- Loading: 49"
- Unloading (Auburn POTW); 49"

### POTW Disposal

- Waste Disposal Approved By (Auburn POTW); [Signature]
- Transported Waste Discharged into POTW

Verified By: [Signature]

NOTE: Attached to Non-hazardous Manifest and submit to O'Brien & Gere Operations Manager.

Send To;  
 Kevin Stone  
 555 E Genesee St,  
 Fayetteville, New York 13221-4873  
 (315) 437-6100 / FAX (315) 463-7554

E-mail To :  
[stonekm@obg.com](mailto:stonekm@obg.com)



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**O'BRIEN & GERE**

PAS Oswego Site Truck Unloading Verification Form

Date -

Unloading Facility

Auburn POTW, Auburn, New York

- Manifest # OPT-062 Estimated Gallons: 8,000
- Truck # or Plate; # 4AP Tank Trailer # 8000
- Driver: Kevin Stone

Stick Measurement:

- Loading: 40 1/2
- Unloading (Auburn POTW): 40 1/2

POTW Disposal

- Waste Disposal Approved By (Auburn POTW): [Signature]
- Transported Waste Discharged into POTW

Verified By : [Signature]

NOTE: Attached to Non-hazardous Manifest and submit to O'Brien & Gere Operations Manager.

Send To;  
 Kevin Stone  
 555 E Genesee St,  
 Fayetteville, New York 13221-4873  
 (315) 437-6100 / FAX (315) 463-7554

E-mail To :  
[stonekm@obg.com](mailto:stonekm@obg.com)



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Printed on Recycled Paper





**O'BRIEN & GERE**

PAS Oswego Site Truck Unloading Verification Form

Date -

Unloading Facility

Auburn POTW, Auburn, New York

- Manifest # OPT-063 Estimated Gallons: 4,800 gallons
- Truck # or Plate; # 72005 PA Tank Trailer # AV 22316
- Driver: Michael Knopp

Stick Measurement:

- Loading: 51 incho.
- Unloading (Auburn POTW); 51 Incho

POTW Disposal

- Waste Disposal Approved By (Auburn POTW): [Signature]
- Transported Waste Discharged into POTW

Verified By : [Signature]

NOTE: Attached to Non-hazardous Manifest and submit to O'Brien & Gere Operations Manager.

Send To;  
 Kevin Stone  
 555 E Genesee St,  
 Fayetteville, New York 13221-4873  
 (315) 437-6100 / FAX (315) 463-7554

E-mail To :  
[stonekm@obg.com](mailto:stonekm@obg.com)



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*ATTACHMENT A-5*

*QUARTERLY LEACHATE DISPOSAL SAMPLING DATA*



**Life Science Laboratories, Inc.**

5854 Butternut Drive  
East Syracuse, NY 13057

(315) 445-1105

Friday, August 20, 2010

Kevin Stone  
O'Brien & Gere Inc. of North America  
555 E Genesee Street  
Fayetteville, NY 13066

TEL: 315-637-2234

Project: PAS OSWEGO-PUMP & TREAT

RE: Analytical Results

Order No.: K1008056

Dear Kevin Stone:

Life Science Laboratories, Inc. received 3 sample(s) on 8/4/2010 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,  
Life Science Laboratories, Inc.

Pamela J. Titus  
Project Manager



**Life Science Laboratories, Inc.**  
 5854 Butternut Drive  
 East Syracuse, NY 13057 (315) 445-1105

# Analytical Results

StateCertNo: 10248

**CLIENT** O'Brien & Gere Inc. of North America  
**Project:** PAS Oswego-Pump & Treat  
**W Order:** K1008056  
**Matrix:** WATER

**Lab ID:** K1008056-001A  
**Client Sample ID:** Load #1 .5 Mic Filter 04Aug10  
**Collection Date:** 08/04/10 7:15  
**Date Received:** 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>BIOCHEMICAL OXYGEN DEMAND (BOD5)</b>			<b>SM 18-20 5210 B</b>		
Biochemical oxygen demand (BOD5)	18		5.0 mg/L	1	08/04/10 16:00
<b>LABORATORY (PH)</b>			<b>SM 18-20 4500-H B</b>		
pH	8.39	H	1.00 pH Units	1	08/12/10 12:02
<b>RESIDUE-NON-FILTERABLE (TSS)</b>			<b>SM 18-20 2540 D</b>		
Residue-non-filterable (TSS)	9.0		5.0 mg/L	1	08/09/10 14:00

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



**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

**Analytical Results**

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America

Lab ID: K1008056-001B

Project: PAS Oswego-Pump & Treat

Client Sample ID: Load #1 .5 Mic Filter 04Aug10

W Order: K1008056

Collection Date: 08/04/10 7:15

Matrix: WATER

Date Received: 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>KJELDAHL NITROGEN - TOTAL (AS N)</b>			<b>EPA 351.2</b>		<b>(E351.2)</b>
Kjeldahl Nitrogen - Total (as N)	32		5.0 mg/L	10	08/16/10
<b>PHOSPHORUS, TOTAL (AS P)</b>			<b>EPA 365.1</b>		<b>(E365.1)</b>
Phosphorus, Total (As P)	ND		0.10 mg/L	1	08/17/10

Qualifiers:

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

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



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America

Lab ID: K1008056-001C

Project: PAS Oswego-Pump & Treat

Client Sample ID: Load #1 .5 Mic Filter 04Aug10

W Order: K1008056

Collection Date: 08/04/10 7:15

Matrix: WATER

Date Received: 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
PHENOLICS, TOTAL RECOVERABLE			EPA 420.1	(E420.1)	
Phenolics, Total Recoverable	2.4		0.50 mg/L	100	08/09/10

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



**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

**Analytical Results**

StateCertNo: 10248

**CLIENT** O'Brien & Gere Inc. of North America

**Lab ID:** K1008056-002A

**Project:** PAS Oswego-Pump & Treat

**Client Sample ID:** Load #2 .5 Mic Filter 04Aug10

**W Order:** K1008056

**Collection Date:** 08/04/10 8:10

**Matrix:** WATER

**Date Received:** 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>BIOCHEMICAL OXYGEN DEMAND (BOD5)</b>			<b>SM 18-20 5210 B</b>		
Biochemical oxygen demand (BOD5)	15		5.0 mg/L	1	08/04/10 16:00
<b>LABORATORY (PH)</b>			<b>SM 18-20 4500-H B</b>		
pH	8.39	H	1.00 pH Units	1	08/12/10 12:03
<b>RESIDUE-NON-FILTERABLE (TSS)</b>			<b>SM 18-20 2540 D</b>		
Residue-non-filterable (TSS)	6.5		5.0 mg/L	1	08/09/10 14:00

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



Life Science Laboratories, Inc.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# Analytical Results

StateCertNo: 10248

CLIENT O'Brien & Gere Inc. of North America

Lab ID: K1008056-002B

Project: PAS Oswego-Pump & Treat

Client Sample ID: Load #2.5 Mic Filter 04Aug10

W Order: K1008056

Collection Date: 08/04/10 8:10

Matrix: WATER

Date Received: 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>KJELDAHL NITROGEN - TOTAL (AS N)</b>			<b>EPA 351.2</b>	<b>(E351.2)</b>	
Kjeldahl Nitrogen - Total (as N)	34		5.0 mg/L	10	08/16/10
<b>PHOSPHORUS, TOTAL (AS P)</b>			<b>EPA 365.1</b>	<b>(E365.1)</b>	
Phosphorus, Total (As P)	ND		0.10 mg/L	1	08/17/10

Qualifiers:

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

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





**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1105

# Analytical Results

StateCertNo: 10248

**CLIENT** O'Brien & Gere Inc. of North America

**Lab ID:** K1008056-002C

**Project:** PAS Oswego-Pump & Treat

**Client Sample ID:** Load #2 .5 Mic Filter 04Aug10

**W Order:** K1008056

**Collection Date:** 08/04/10 8:10

**Matrix:** WATER

**Date Received:** 08/04/10 14:42

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>PHENOLICS, TOTAL RECOVERABLE</b>			<b>EPA 420.1</b>	<b>(E420.1)</b>	
Phenolics, Total Recoverable	2.5		0.50 mg/L	100	08/09/10

**Qualifiers:**

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
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## Analytical Results

StateCertNo: 10248

**CLIENT:** O'Brien & Gere Inc. of North America  
**Project:** PAS Oswego-Pump & Treat  
**W Order:** K1008056  
**Matrix:** WATER  
**Inst. ID:** ICAP 61E      **Sample Size:** 50 mL  
**ColumnID:**              **%Moisture:**  
**Revision:** 08/10/10 11:57      **TestCode** 200.7 NPW  
**Col Type:**

**Lab ID:** K1008056-001D  
**Client Sample ID:** Load #1 .5 Mic Filter 04Aug10  
**Collection Date:** 08/04/10 7:15  
**Date Received:** 08/04/10 14:42  
**PrepDate:** 08/05/10 0:00  
**BatchNo:** 11719/R20452  
**FileID:** 1-SAMP-141983

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				EPA 200.7		(E200.2)
Arsenic	0.014		0.010	mg/L	1	08/09/10 16:16
Barium	ND		0.10	mg/L	1	08/09/10 16:16
Chromium	ND		0.010	mg/L	1	08/09/10 16:16
Copper	ND		0.010	mg/L	1	08/09/10 16:16
Iron	1.8		0.050	mg/L	1	08/09/10 16:16
Nickel	0.54		0.010	mg/L	1	08/09/10 16:16
Zinc	ND		0.020	mg/L	1	08/09/10 16:16

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



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East Syracuse, NY 13057

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# Analytical Results

StateCertNo: 10248

**CLIENT** O'Brien & Gere Inc. of North America  
**Project:** PAS Oswego-Pump & Treat  
**W Order:** K1008056  
**Matrix:** WATER  
**Inst. ID:** MS04\_73 **Sample Size** 10 mL  
**ColumnID:** Rtx-VMS **%Moisture:**  
**Revision:** 08/06/10 13:44 **TestCode** 624W  
**Col Type:**

**Lab ID:** K1008056-001E  
**Client Sample ID:** Load #1 .5 Mic Filter 04Aug10  
**Collection Date:** 08/04/10 7:15  
**Date Received:** 08/04/10 14:42  
**PrepDate:**  
**BatchNo:** R20440  
**FileID:** 1-SAMP-R6451.D

Analyte	Result	Qual	PQL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				EPA 624		
Benzene	308		10.0	µg/L	10	08/05/10 17:40
cis-1,2-Dichloroethene	174		10.0	µg/L	10	08/05/10 17:40
Methylene chloride	ND		10.0	µg/L	10	08/05/10 17:40
Toluene	57.3		10.0	µg/L	10	08/05/10 17:40
trans-1,2-Dichloroethene	ND		10.0	µg/L	10	08/05/10 17:40
Trichloroethene	12.6		10.0	µg/L	10	08/05/10 17:40
Vinyl chloride	68.3		20.0	µg/L	10	08/05/10 17:40
Surr: 1,2-Dichloroethane-d4	116		75-128	%REC	10	08/05/10 17:40
Surr: 4-Bromofluorobenzene	106		75-125	%REC	10	08/05/10 17:40
Surr: Toluene-d8	84		75-125	%REC	10	08/05/10 17:40

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



**Life Science Laboratories, Inc.**  
**Brittonfield Lab**

5854 Butternut Drive  
 East Syracuse, New York 13057  
 (315) 445-1105

**Chain of Custody**

Client: <b>O'Brien &amp; Gere</b>		Analysis/Method										
Project: <b>PAS Oswego Quarterly Tank Samples - Pump+Treat</b>		TKN, TP		PHENOLS		METALS (Fe)		82608				
Sampled by: <b>MARTIN KOEWECKE</b>		BOD, TSS, PH										
Client Contact: <b>KEVIN STONE</b>		Phone #										
Sample Description												
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers							Comments
LOAD #1 .5mic Filter	8-4-10	7:15	WATER	GRAB	7	1	1	1	1	3		
LOAD #2 .5mic Filter	8-4-10	8:10	WATER	GRAB	7	1	1	1	1	3		
QC TRIP BLANKS					2					2		
Relinquished by: <b>Martin Koevecke</b>	Date: <b>8-4-10</b>	Time: <b>11:15</b>	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by: <b>RCVD</b>	
Relinquished by:	Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:	
Shipment Method: <b>HAND</b>	Airbill Number:											

3.0 on La

Turnaround Time Required:  
 Routine   
 Rush (Specify) \_\_\_\_\_  
 Cooler Temperature: \_\_\_\_\_

Original - Laboratory  
 Copy - Client