

II - C

1ST QUARTER REPORT - 2012

**QUARTERLY PROGRESS REPORT – 1<sup>st</sup> QUARTER 2012**  
***Operation, Maintenance and Long-term Monitoring Activities***

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

**PERIOD COVERED:**   January – March (1<sup>st</sup> Quarter) 2012

**ACTIONS TAKEN DURING QUARTER:**

- Leachate removal and site maintenance and monitoring activities were conducted at the Pollution Abatement Services (PAS) site (Site), in Oswego, New York by O'Brien & Gere Operations LLC, (O'Brien & Gere) consistent with the PAS Site Operation, Maintenance and Long-term Monitoring Plan (Work Plan). A total of 30,005 gallons of leachate were removed during the period of January 2012 thru March 2012. Specific quantities of leachate removed during each month, along with historical leachate removal documentation, are described in this progress report. Leachate was pumped from the Site, and discharged into the City of Oswego (Oswego) sanitary sewer system. Leachate discharged into the Oswego sewer system was treated and disposed in the Oswego Eastside Wastewater Treatment Facility located at 71 Mercer St. in Oswego.
- Monthly pre-pumping groundwater elevation monitoring was performed at the Site on January 11, February 8, and March 7, 2012. Monthly groundwater elevation monitoring results for the SWW-series monitoring wells (SWW-1 through SWW-12), and leachate collection wells (LCW-1 through LCW- 4) were recorded on the Groundwater Elevation Monitoring Log (See attachment C-1).
- On February 8, 2012, quarterly groundwater elevation monitoring was performed at the Site. Quarterly groundwater elevation monitoring results for the M-series wells M-21 thru M-23, the LR-series wells LR-2, -3, -6 and -8, the LD-series wells LD-3, -4, -5, -6, and -8, along with wells OS-1 and -3, OI-1, OD-3 and LS-6 were recorded onto the Groundwater Elevation Monitoring Log (See attachment C-1, and well level master spreadsheet)
- The semi-annual groundwater sampling was last conducted on November 8, 2011 for long-term monitoring wells LR-6, LR-8 and M-21, and leachate collection wells LCW-2 and LCW-4. Sampling activities for long-term monitoring wells were conducted using low-flow sampling protocols described in the Work Plan.
- Site maintenance activities were conducted monthly, in combination with the monthly leachate removal event. These activities included the following:
  - Visually inspect the Site slurry-wall containment vegetated cap for signs of burrowing vermin or surface anomalies. The Site "Inspection Checklist Form" was utilized to document comments pertaining to land cap, leachate discharge system, leachate collection system, and general site conditions.

- Visually inspected the leachate collection system pumping equipment to verify proper operation. The field technician inspected each pump control panel to ensure control systems were generally free of rodents, and insects, and where properly operating. The leachate holding tank was visually inspected for integrity, as were the leachate tanks steel protective roof, and wood structure. No discrepancies were reported at the time of the inspection.
  - The Site wooden utility shed and leachate pumping equipment, including centrifuge discharge pump, flow meter, suction hose, pump oils levels, heat trace power panel, interior lighting, exterior and interior shed structure, and main power distribution panel. No discrepancies were reported at the time of the inspection.
  - The Site French drainage system and two (2) concrete troughs were inspected, and cleared by hand of accumulated grass. No discrepancies were reported at the time of the inspection.
  - The perimeter security fence and fence signage were inspected during each site visit to ensure the integrity and the security of the Site is maintained. Security fencing was inspected for the presence of any fallen tree limbs or overgrown vegetation. The field technician removed shallow rooted vegetation (brush) or other similar vegetation that had grown up along the security fence, or had fallen onto the fence from the Site bordering woodlands. A section of the perimeter fence in a low-lying area along the northeastern property line was observed to be in need of additional brush-clearing and fence repair. The additional support required to clear and repair this fence is scheduled for repair in the second quarter of 2012.
- Quarterly Site inspection and maintenance activities were completed on March 28, 2012. Monthly maintenance activities at this Site included the following:
    - Removed by hand, fallen plants and general brush from the Site northeast security fence line. Approximately 100' of old vegetation was removed from this section of fence that was knocked down to the ground over the past several years by excessive seasonal vegetation, and changing winter snow fall. Approximately eight-hours (8) of labor time were spent clearing this vegetation. Upon clearing all the vegetation, and re-establishing clear walk zone around the fallen fence, the fence will be repaired, re-erected, and braced in place.
  - On January 11, February 8, and March 7, 2012, an O'Brien & Gere field technician performed the monthly pre-pumping collection system inspection of leachate collection wells LCW-1, 2, 3 & 4, along with inspection of the leachate discharge pumping system. In advance of each leachate removal event, O'Brien & Gere contacted the City of Oswego Eastside Wastewater Treatment Facility official, to inform the City of the planned discharged into the City of Oswego sanitary sewer system. Each leachate pumping event was approved by the City of Oswego, prior to the commencement of the discharge event.
  - On January 11, February 8, and March 7, 2012, upon completing the monthly leachate collection well inspection, the technician manually energized four leachate collection pumps, identified as LCW-1, LCW-2, LCW-3 and LCW-4, in order to pump the planned volume of leachate into the leachate collection tank. The run time from each leachate



collection pump, along with the leachate tank level taken upon completion of well pumping, were recorded on the Leachate Disposal Checklist (See attachment C-2).

- During the months of January, February and March 2012, O'Brien & Gere pumped a total of 30,005 gallons of leachate from the leachate collection tank, into the City of Oswego sanitary sewer system. The amount of leachate discharged during each removal event, along with flow totalizer, pH and temperature readings, are recorded on the Leachate Disposal Checklist completed for each removal event. The leachate pumping system consists of one electrically powered "Centrifugal Discharge Pump, flow totalizer and leachate sampling port located within the on-site wooden utility shed. The level of leachate remaining in the leachate collection tank after each leachate discharge pumping event is also recorded on the Leachate Disposal Checklist. Each monthly leachate discharge was performed using same discharge protocols.
- Upon completing each monthly removal event, the leachate discharge system was drained of residual leachate and prepared for storage. Residual leachate removed was returned to the leachate collection tank. The leachate collection tank enclosure door was locked and secured. During cold weather operations, the discharge piping heat trace system was verified to be on, and the utility shed lighting was turned off, and the doors locked. Prior to leaving the Site, O'Brien & Gere closed and secured the chain lock at the main entrance gate.
- Provided notification to USEPA of Project Coordinator change on January 17, 2012 and obtained USEPA approval of the change in accordance with 1998 Consent Decree.
- The PAS Oswego Site quarterly discharge report for the 1<sup>st</sup> quarter of 2012 was submitted to the City of Oswego on April 11, 2012, and provide the leachate volume and data collected for the quarter in compliance with the Oswego Wastewater Discharge Permit 6-2010-13. (See attachment C-3)
- The PAS Oswego Site quarterly discharge report for the 1<sup>st</sup> quarter of 2012 was submitted to the City of Auburn on April 25, 2012 in compliance with the Auburn Wastewater Discharge Permit 2011-01, although no leachate was disposed of at the Auburn Facility for the quarter (See attachment C-3).



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

- The completed Groundwater Elevation Monitoring Logs for the monitoring events performed on January 11, February 8, and March 7, 2012 are attached. (See attachment C-1)
- The completed Leachate Disposal Checklist for the monthly removal events of January 11, February 8, and March 7, 2012, and the completed Monthly and Quarterly Site Inspection Checklist for January 11, February 8, March 7, and March 21, 2012 are attached (See attachment C-2).
- A copy of the PAS Oswego Site quarterly discharge report (1<sup>st</sup> quarter 2011) submitted to the City of Oswego on April 11, 2011, and a quarterly discharge report was also submitted to the City of Auburn on April 25, 2012. (See attachment C-3)

*ATTACHMENT C-1*  
*GROUNDWATER ELEVATION DATA*





O'Brien Corporation  
 PAs State

Oswego, New York

Pre-Pumping Monitoring Well Levels

February 8, 2012

Well Number	Ground Elevation		Riser Elevation		February 2011			Within Range?			Ground-Water Elevation		
					Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N		
SWW1	286.20	289.33	289.33	289.33	8.72	8.72	8.72	9.13	8.11	9.74	Yes	280.61	280.61
SWW2	286.30	289.37	289.37	289.37	15.05	15.05	15.05	15.63	15.15	16.08	No	274.32	274.32
SWW3	286.00	286.50	286.50	286.50	16.5	16.50	16.50	17.14	16.37	19.94	Yes	270.00	270.00
SWW4	282.90	283.60	283.60	283.60	13.84	13.84	13.84	14.56	12.55	15.58	Yes	269.76	269.76
SWW5	275.90	277.02	277.02	277.02	12.48	12.48	12.48	12.99	12.55	13.58	No	264.54	264.54
SWW6	270.90	273.06	273.06	273.06	8.45	8.45	8.45	8.52	7.90	8.90	Yes	264.61	264.61
SWW7	273.30	277.93	277.93	277.93	7.64	7.64	7.64	8.05	7.63	8.30	Yes	270.29	270.29
SWW8	275.70	278.24	278.24	278.24	3.92	3.92	3.92	4.07	3.80	4.30	Yes	274.32	274.32
SWW9	283.30	285.55	285.55	285.55	16.42	16.42	16.42	17.11	16.40	18.00	Yes	269.13	269.13
SWW10	279.30	280.43	280.43	280.43	10.12	10.12	10.12	11.17	9.20	12.40	Yes	270.31	270.31
SWW11	271.00	273.50	273.50	273.50	8.40	8.40	8.40	9.04	8.47	9.71	No	265.10	265.10
SWW12	270.20	272.82	272.82	272.82	8.50	8.50	8.50	8.76	8.35	9.20	Yes	264.32	264.32
LCW-1	271.40	272.21	272.21	272.21	7.70	7.70	7.70	8.35	7.90	9.22	No	264.51	264.51
LCW-2	272.60	274.44	274.44	274.44	9.95	9.95	9.95	10.59	10.14	11.46	No	264.49	264.49
LCW-3	283.30	284.36	284.36	284.36	17.18	17.18	17.18	17.63	17.54	18.26	No	267.18	267.18
LCW-4	283.80	285.70	285.70	285.70	18.02	18.02	18.02	18.25	17.35	19.42	Yes	267.68	267.68
OS-1	269.63	272.10	272.10	272.10	8.3	8.30	8.30	9.37	8.34	10.80	No	263.80	263.80
OI-1	269.14	272.00	272.00	272.00	11	11.00	11.00	11.13	10.90	11.48	Yes	261.00	261.00
OS-3	274.63	277.89	277.89	277.89	13.64	13.64	13.64	13.79	13.32	14.62	Yes	264.25	264.25
OD-3	274.96	277.85	277.85	277.85	13.5	13.50	13.50	13.64	13.20	14.38	Yes	264.35	264.35
LD-3	275.80	278.62	278.62	278.62	4.3	4.30	4.30	4.30	4.18	4.42	Yes	274.32	274.32
LD-4	276.30	279.25	279.25	279.25	9.82	9.82	9.82	10.23	9.84	11.23	No	269.43	269.43
LD-5	270.02	272.94	272.94	272.94	8.74	8.74	8.74	8.92	8.63	9.48	Yes	264.20	264.20
LS-6	271.40	274.14	274.14	274.14	9.54	9.54	9.54	9.83	8.75	11.28	Yes	264.60	264.60
LD-6	270.09	274.03	274.03	274.03	9.7	9.70	9.70	10.01	9.58	10.82	Yes	264.33	264.33
LD-8	269.90	272.83	272.83	272.83	6.96	6.96	6.96	7.08	6.56	8.04	Yes	265.87	265.87
LR-2	287.50	289.85	289.85	289.85	12.44	12.44	12.44	12.84	12.64	13.30	No	277.41	277.41
LR-3	275.50	278.06	278.06	278.06	7.38	7.38	7.38	7.88	7.90	8.12	No	270.68	270.68
LR-6	270.90	274.39	274.39	274.39	9.88	9.88	9.88	10.24	10.18	10.55	No	264.51	264.51
LR-8	270.00	273.42	273.42	273.42	9.3	9.30	9.30	9.63	9.45	10.05	No	264.12	264.12
M-21	270.28	272.32	272.32	272.32	9.06	9.06	9.06	9.48	9.18	10.44	No	263.26	263.26
M-22	270.40	273.88	273.88	273.88	9.84	9.84	9.84	10.00	9.62	10.22	Yes	264.04	264.04
M-23	267.98	270.49	270.49	270.49	12.2	12.20	12.20	12.38	12.05	12.65	Yes	258.29	258.29



*ATTACHMENT C-2*

*SITE INSPECTION CHECKLIST  
AND LEACHATE DISPOSAL CHECKLIST*





Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date 1-11-12

Time 4:30

Field Technician MARTIN KOENIGKE

Weather Conditions Sunny 30°

Check  (tasks completed in each event)

Inspection Features	Check <input checked="" type="checkbox"/> (tasks completed in each event)		Remarks (indicate accomplishment of each maintenance task)
	Monthly	Quarterly	
<b>Land Cap</b>			
Signs of burrowing vermin	<input checked="" type="checkbox"/>		None visible
Land cap irregularities (note anomaly)	<input checked="" type="checkbox"/>		OK
French drainage system clear and function able	<input checked="" type="checkbox"/>		Clear
Concrete trough clear and function able	<input checked="" type="checkbox"/>		Clear
<b>Leachate Discharge System</b>			
City of Oswego sanitary discharge valve positioned "Open"	<input checked="" type="checkbox"/>		OK
Discharge Pump inspected & operational	<input checked="" type="checkbox"/>		Yes
Discharge pump oil level verified prior to use.	<input checked="" type="checkbox"/>		Yes
Discharge pump drained of residual water (drained upon completion of use)	<input checked="" type="checkbox"/>		Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	<input checked="" type="checkbox"/>		ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	<input checked="" type="checkbox"/>		Yes
<b>Leachate Collection System</b>			
Leachate holding tank visually inspected for structural integrity	<input checked="" type="checkbox"/>		OK

1-11-12

Leachate holding tank metal roof inspected for structural integrity	✓		OK
Leachate tank access doors locked (post pump out)	✓		Yes
Pump power panel(s) secured	✓		Yes
<b>Monitoring Wells (MW)</b>			
Locks installed	✓		Yes
MW's marked & identifiable	✓		STAINING TO FADE
<b>General Site Condition</b>			
Trees & brush cleared off security fence		✓	
Perimeter security fence intact & free of damage		✓	DOWN IN SWAMP AREA
Site access driveway inspected	✓		OK
Security access gates functional	✓		Yes
Site gate signage intact	✓		NO SIGN
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓		OK
Fire extinguisher serviceable, inspected, and inspection recorded	✓		Yes will need Insp. next month
Spill control material inspected & adequate	✓		STOCKED
PPE available and utilized as required	✓		STOCKED
Emergency contact information posted within shed	✓		Yes

Additional remarks (use separate sheet is required)

Monthly well Levels, Pump Leachate To City of Oswego

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Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date 2-8-12

Time 7:45

Field Technician MARTIN KOENNECKE

Weather Conditions P-Sunny 18°

Check  (tasks completed in each event)

Inspection Features	Check <input checked="" type="checkbox"/> (tasks completed in each event)		Remarks (indicate accomplishment of each maintenance task)
	Monthly	Quarterly	
<b>Land Cap</b>			
Signs of burrowing vermin	<input checked="" type="checkbox"/>		NONE VISIBLE
Land cap irregularities (note anomaly)	<input checked="" type="checkbox"/>		OK
French drainage system clear and function able	<input checked="" type="checkbox"/>		OK
Concrete trough clear and function able	<input checked="" type="checkbox"/>		OK
<b>Leachate Discharge System</b>			
City of Oswego sanitary discharge valve positioned "Open"	<input checked="" type="checkbox"/>		Yes
Discharge Pump inspected & operational	<input checked="" type="checkbox"/>		Yes
Discharge pump oil level verified prior to use.	<input checked="" type="checkbox"/>		Yes
Discharge pump drained of residual water (drained upon completion of use)	<input checked="" type="checkbox"/>		Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	<input checked="" type="checkbox"/>		ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	<input checked="" type="checkbox"/>		Yes
<b>Leachate Collection System</b>			
Leachate holding tank visually inspected for structural integrity	<input checked="" type="checkbox"/>		Yes



2-8-12

Leachate holding tank metal roof inspected for structural integrity	✓		Ridge cap Blown off, <sup>SCREWED BACK DOWN</sup> REPAIRED -
Leachate tank access doors locked (post pump out)	✓		YES
Pump power panel(s) secured			
<b>Monitoring Wells (MW)</b>			
Locks installed	✓		Yes
MW's marked & identifiable	✓		OK
<b>General Site Condition</b>			
Trees & brush cleared off security fence		✓	OK EXCEPT FOR SWAMP AREA
Perimeter security fence intact & free of damage		✓	"
Site access driveway inspected	✓		OK
Security access gates function able	✓		YES
Site gate signage intact	✓		NEED SIGN
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓		OK
Fire extinguisher serviceable, inspected, and inspection recorded	✓		OK NEED NEW Insp. NEXT MONTH
Spill control material inspected & adequate	✓		STOCKED
PPE available and utilized as required	✓		STOCKED
Emergency contact information posted within shed	✓		YES

Additional remarks (use separate sheet is required)

QUARTERLY well Levels, Pump 19000 gallons  
 to City of Oswego

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Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date 3-7-12

Time 7:00

Field Technician MARTIN KOENIGKE

Weather Conditions P. sunny

Check  (tasks completed in each event)

Inspection Features	Check <input checked="" type="checkbox"/> (tasks completed in each event)		Remarks (indicate accomplishment of each maintenance task)
	Monthly	Quarterly	
<b>Land Cap</b>			
Signs of burrowing vermin	<input checked="" type="checkbox"/>		NONE VISIBLE
Land cap irregularities (note anomaly)	<input checked="" type="checkbox"/>		OK
French drainage system clear and function able	<input checked="" type="checkbox"/>		OK
Concrete trough clear and function able	<input checked="" type="checkbox"/>		OK
<b>Leachate Discharge System</b>			
City of Oswego sanitary discharge valve positioned "Open"	<input checked="" type="checkbox"/>		Yes
Discharge Pump inspected & operational	<input checked="" type="checkbox"/>		Yes
Discharge pump oil level verified prior to use.	<input checked="" type="checkbox"/>		OK
Discharge pump drained of residual water (drained upon completion of use)	<input checked="" type="checkbox"/>		Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	<input checked="" type="checkbox"/>		ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	<input checked="" type="checkbox"/>		Yes
<b>Leachate Collection System</b>			
Leachate holding tank visually inspected for structural integrity	<input checked="" type="checkbox"/>		OK

3-17-12

Leachate holding tank metal roof inspected for structural integrity	✓		OK
Leachate tank access doors locked (post pump out)	✓		Yes
Pump power panel(s) secured	✓		Yes
<b>Monitoring Wells (MW)</b>			
Locks installed	✓		Yes
MW's marked & identifiable	✓		Yes
<b>General Site Condition</b>			
Trees & brush cleared off security fence	✓	✓	work in progress
Perimeter security fence intact & free of damage	✓		WET AREA
Site access driveway inspected	✓		OK
Security access gates function able	✓		OK
Site gate signage intact	✓		Need signage
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓		OK
Fire extinguisher serviceable, inspected, and inspection recorded	✓		EXCHANGED OLD with newly Inspected
Spill control material inspected & adequate	✓		STOCKED
PPE available and utilized as required	✓		STOCKED
Emergency contact information posted within shed	✓		Yes

Additional remarks (use separate sheet is required)

MONTHLY well levels, Pumped 10,000 gal. To City of Oswego. City of Oswego PERSONAL on site for Yewell Site Inspection. LCW-4 Pump TRIPPED out TROUBLE SHOOTING PROBLEM, changed Pump STARTER RELAY with LCW-3, LCW4 working APPEARED To fix PROBLEM.







**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 1-11-12

Time: 7:30

Field Technician MARTIN KOENNECKE

Weather Conditions Sunny 30°

Beginning Leachate Hold Tank Elevation (Inches)	<b>Pre-Discharge Well Pumping</b>					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
9.5"	LCW-1	9:00	10:00	42.5"	167.75	10,065
	LCW-2	9:00	10:00			
	LCW-3	9:00	9:05			
	LCW-4	9:00	10:00			
Total						10,065

Discharge #	<b>Monthly Leachate Discharge Pumping (To the City of Oswego)</b>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:05	12:10	6.50	48°	210090	220095	10,005
<b>Pump Info</b>	<b>Flow Rate (GPM)</b>	<b>Prime Time</b>	<b>Pump Pressure</b>	<b>Pump Vacuum</b>			
	80	30 min	Ø	8"			
	<b>Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)</b>						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							



**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 2-8-12

Time: 7:45

Field Technician MARTIN KOENNECKE

Weather Conditions P-Sunny -18°

Beginning Leachate Hold Tank Elevation (Inches)	<b>Pre-Discharge Well Pumping</b>					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
10"	LCW-1	9:45	10:45	42"	16.26	9760
	LCW-2	9:45	10:45			
	LCW-3	9:45	9:50			
	LCW-4	9:45	10:45			
<b>Total</b>						9760

Discharge #	<b>Monthly Leachate Discharge Pumping (To the City of Oswego)</b>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:55	12:55	6.8	45°	220095	230095	10,000
<b>Pump Info</b>	<b>Flow Rate (GPM)</b>	<b>Prime Time</b>	<b>Pump Pressure</b>	<b>Pump Vacuum</b>			
	83.3	20 min	2	8"			
	<b>Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)</b>						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							



**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 3-7-12

Time: 7:00

Field Technician MARTIN KOENNECKE

Weather Conditions P-Sunny

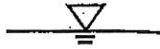
Beginning Leachate Hold Tank Elevation (Inches)	<b>Pre-Discharge Well Pumping</b>					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
9.5"	LCW-1	8:20	12:10	43.5		10,370
	LCW-2	8:20	12:10			
	LCW-3	8:20	8:30			
	LCW-4	8:20	9:00			
<b>Total</b>						10,370

Discharge #	<b>Monthly Leachate Discharge Pumping (To the City of Oswego)</b>						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	12:10	14:25	6.75	52°	230095	240095	10,000
<b>Pump Info</b>	<b>Flow Rate (GPM)</b>	<b>Prime Time</b>	<b>Pump Pressure</b>	<b>Pump Vacuum</b>			
		15min	Ø	8"			
	<b>Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)</b>						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							



*ATTACHMENT C-3*

*QUARTERLY POTW DISCHARGE REPORTS  
1<sup>ST</sup> QUARTER 2012*



***de maximis, inc.***

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

April 25, 2012

Mr. Tim O'Brien  
Department of Municipal Utilities  
35 Bradley Street  
Auburn, New York 13021

**Re: 1st Quarter PAS Oswego Progress Report 2012**

Dear Mr. O'Brien,

As per your request this letter confirms that the PAS Oswego Site has not shipped or discharged any wastewater from the PAS Oswego collection system to the City of Auburn POTW since September 2010. This has been due to the EPA allowance of an alternate disposal method. However, with EPA approval we retain disposal of PAS Oswego wastewater at the Auburn POTW under Permit 2011-01 in the event that the current disposal method is unavailable in the future. We understand this permit is valid through 2014.

- **Cumulative gallons removed for discharge in Auburn 1st Qtr. 2012 - 0**
- **Cumulative gallons removed for discharge in Auburn over 2012 - 0**

Since no wastewater was shipped or discharged to Auburn, no analytical testing was required. However, we continue to perform Site maintenance and sampling activities under the EPA approved Operation, Monitoring and Maintenance Program for the Site. The data associated with that program indicate little change in the characteristics of the Site wastewater.

Please contact me at (865) 691-5052, if you have any questions.

Sincerely,  
***de maximis, inc.***

Clay McClarnon

cc: PAS Management Committee

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3131-10



*de maximis, inc.*

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

**Via electronic mail**

April 11, 2012

Mr. Anthony A. Leotta, P.E.  
City Engineer  
City Hall  
Oswego, New York 13126  
[tleotta@oswego.ny.org](mailto:tleotta@oswego.ny.org)

**Re: Quarterly Discharge Report – 1st Quarter 2012  
Pollution Abatement Services Site – Oswego, New York  
City of Oswego Wastewater Discharge Permit 6-2010-13**

Dear Mr. Leotta:

This quarterly report is submitted in accordance with the City of Oswego Wastewater Discharge Permit 6-2010-13 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Oswego's Eastside Wastewater Treatment Facility. This report covers the reporting period from January 2012 through March 2012.

The total gallons of leachate discharged during the first quarter of 2012 are 30,005 gallons. The amount of leachate discharged during each monthly removal event is summarized in Table 1. A completed Leachate Discharge Form documenting the quantity of leachate discharged during each leachate removal event is included in Attachment I. The flow totalizer readings documenting quantities discharged, as well as date and time of each discharge event is provided on this form. Measurements for pH and temperature during each removal event are also recorded in the Leachate Discharge Form. The semi-annual sampling event under the permit is scheduled for May 9, 2012.

If you need additional information please call me at (865) 691-5052.

Sincerely,  
**de maximis, inc.**

  
Clay McClarnon

Attachments

cc: Gary Hallinan – City of Oswego  
PAS Oswego Site Management Committee



**TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR CITY OF OSWEGO (2012)**  
**LEACHATE DISCHARGE TO OSWEGO EASTSIDE WASTEWATER TREATMENT FACILITY**  
(Oswego SIU Wastewater Discharge Permit No.6-2010-13)

4Q 2011		1Q 2012		2Q 2012		3Q 2012		4Q 2012	
Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged
10/5/11	20,005	1/11/12	10,005						
52/6.8		48/6.5							
11/9/11	20,005	2/8/12	10,000						
52/6.8		45/6.8							
12/7/11	10,010	3/7/12	10,000						
52/6.8		52/6.75							
<b>Total</b>									
<b>Discharged</b>	50,020		30,005		0		0		0
<b>Date Sampled*</b>	11/9/2011		Not sampled				Not sampled		
<b>Analytes</b>	mg/L		mg/L		mg/L		mg/L		mg/L
Antimony	NA								
Arsenic	NA								
Beryllium	NA								
Cadmium	ND								
Chromium (total)	0.014								
Copper	0.01								
Cyanide	ND								
Lead	ND								
Mercury	ND								
Nickel	ND								
Selenium	0.56								
Silver	NA								
Thallium	NA								
Zinc	ND								
BOD 5	13								
TSS	9								
Phenolics	0.14								
pH	7.2								

\* Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.6-2010-13.



ATTACHMENT I



**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 1-11-12

Time: 7:30

Field Technician MARTIN KOERNICKE

Weather Conditions Sunny 30°

Beginning Leachate Hold Tank Elevation (Inches)	Pre-Discharge Well Pumping					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
9.5"	LCW-1	9:00	10:00	42.5"	167.95	10,065
	LCW-2	9:00	10:00			
	LCW-3	9:00	9:05			
	LCW-4	9:00	10:00			
	Total					10,065

Discharge #	Monthly Leachate Discharge Pumping (to the City of Oswego)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:05	12:10	6.50	48°	210090	220095	10,005
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	80	20 min	Ø	8"			
	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							



**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 2-8-12

Time: 7:45

Field Technician MARTIN KOENNECKE

Weather Conditions P-Sunny - 18°

Beginning Leachate Hold Tank Elevation (Inches)	Pre-Discharge Well Pumping					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
10"	LCW-1	9:45	10:45	42"	162.6	9760
	LCW-2	9:45	10:45			
	LCW-3	9:45	9:50			
	LCW-4	9:45	10:45			
<b>Total</b>						9760

Discharge #	Monthly Leachate Discharge Pumping (To the City of Oswego)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:55	12:55	6.8	45°	22,009.5	23,009.5	10,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	83.3	20 min.	2	8"			
Sample #1	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							



**O'BRIEN & GERE**

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)  
Oswego, NY

Date: 3-7-12

Time: 7:00

Field Technician Martin Koerwecke

Weather Conditions P-Sunny

Beginning Leachate Hold Tank Elevation (Inches)	Pre-Discharge Well Pumping					
	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped into Holding Tank (Gallons)
9.5"	LCW-1	8:20	12:10	43.5		10,370
	LCW-2	8:20	12:10			
	LCW-3	8:20	8:30			
	LCW-4	8:20	9:00			
Total						10,370

Discharge #	Monthly Leachate Discharge Pumping (To the City of Oswego)						
	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	12:10	14:25	6.75	52°	230095	240095	10,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
		15min.	Ø	8"			
Sample #	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							