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3RD QUARTER REPORT - 2011

QUARTERLY PROGRESS REPORT – 3rd QUARTER 2011
Operation, Maintenance and Long-term Monitoring Activities

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

PERIOD COVERED: July – September (3rd Quarter) 2011

ACTIONS TAKEN DURING QUARTER:

- The 2011 Pollution Abatement Services (PAS) Annual Progress Report was submitted to EPA on August 31, 2011. The 2011 Annual Progress Report documented the connection to the City of Oswego Eastside Wastewater Treatment Facility.
- Leachate removal and site maintenance and monitoring activities were conducted at the 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 40,025 gallons of leachate were removed during the period of July 2011 thru September 2011. 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 of 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 July 6, August 4, and September 9, 2011. 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 A-1).
- On August 4, 2011, 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 A-1).
- Site maintenance activities were conducted monthly, in combination with the monthly leachate removal event which included the following inspections:
 - 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. 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 the second quarter of 2012.
- In addition, quarterly Site inspection and maintenance activities were completed on September 7, 2011 and recorded in the Site Inspection Check List (See Attachment A2). Monthly maintenance activities at this Site included the following:
 - The removal of vegetation from the Site two concrete drainage troughs.
 - The removal of vegetation from the Site French drainage pipe.
 - Clearing of vegetation from the Site main entrance gate and South fence line.
 - Inspected for downed trees.
 - On July 6, August 4, and September 9, 2011, 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 discharge into the Oswego sanitary sewer system. Each leachate pumping event was approved by the City of Oswego, prior to the commencement of the discharge event.
 - Upon completing the monthly leachate collection well inspection, the technician manually energized the leachate collection pumps, identified as LCW-1, LCW-2, LCW3 and LCW-4, in order to pump the planned volume of leachate into the leachate collection tank. LCW-3 did not contain sufficient leachate to maintain flow and was not pumped. The run time from each leachate collection pump, along with the leachate tank level taken upon completion of well pumping, was recorded on the Leachate Disposal Checklist (See Attachment A-2).
 - During the months of July, August, and September 2011, O'Brien & Gere pumped a total of 40,025 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 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.
- The PAS Oswego Site quarterly discharge report for the 3rd quarter of 2011 was submitted to the City of Oswego on October 20, 2011, and provide the leachate volume and data collected for the quarter in compliance with the Oswego Wastewater Discharge Permit 6-2010-13. (See attachment A-3)

DOCUMENTATION OF REMOVAL ACTIVITIES DURING PREVIOUS QUARTER:

- The completed Groundwater Elevation Monitoring Logs for the monitoring events performed on July 6, August 4, and September 6, 2011 are attached. (See Attachment A-1)
- The completed Leachate Disposal Checklist for the monthly removal events of July 6, August 4, and September 9, 2011, and the completed Monthly and Quarterly Site Inspection Checklist for July 7, August 4, September 6 & 7 are attached (See Attachment A-2).
- A copy of the PAS Site quarterly discharge report (3rd Quarter 2011) was submitted to the City of Oswego on October 20, 2011 (See Attachment A-3).

ATTACHMENT A-1

GROUNDWATER ELEVATION DATA

O'Brien (Operation
P.A. site

Oswego, New York

Pre-Pumping Monitoring Well Levels

August 4, 2011

Well Number	Ground		Riser				August 2011				Within Range?				Ground-Water	
	Elevation	Elevation	Reading 1	Reading 2	Reading 3	Average	Low	High	Y / N	Elevation	Elevation					
SWW1	286.20	289.33	10.70	10.70	10.70	10.52	9.98	11.00	Yes	278.63	278.63					
SWW2	286.30	289.37	15.72	15.72	15.72	15.88	15.65	16.25	Yes	273.65	273.65					
SWW3	286.00	286.50	16.96	16.96	16.96	17.04	16.76	17.32	Yes	269.54	269.54					
SWW4	282.90	283.60	16.82	16.82	16.82	16.78	15.72	18.00	Yes	266.78	266.78					
SWW5	275.90	277.02	12.62	12.62	12.62	12.84	12.26	13.90	Yes	264.40	264.40					
SWW6	270.90	273.06	9.60	9.60	9.60	9.57	9.15	10.00	Yes	263.46	263.46					
SWW7	273.30	277.93	8.26	8.26	8.26	8.31	7.92	8.64	Yes	269.67	269.67					
SWW8	275.70	278.24	8.40	8.40	8.40	7.09	4.89	9.01	Yes	269.84	269.84					
SWW9	283.30	285.55	17.52	17.52	17.52	17.66	17.45	17.98	Yes	268.03	268.03					
SWW10	279.30	280.43	15.90	15.90	15.90	14.98	12.72	16.42	Yes	264.53	264.53					
SWW11	271.00	273.50	8.68	8.68	8.68	8.94	8.42	9.92	Yes	264.82	264.82					
SWW12	270.20	272.82	14.45	14.45	14.45	13.15	11.45	14.55	Yes	258.37	258.37					
LCW-1	271.40	272.21	7.50	7.50	7.50	7.79	7.63	8.24	No	264.71	264.71					
LCW-2	272.60	274.44	9.76	9.76	9.76	10.05	9.87	10.50	No	264.68	264.68					
LCW-3	283.30	284.36	18.00	18.00	18.00	18.02	17.74	18.31	Yes	266.36	266.36					
LCW-4	283.80	285.70	17.18	17.18	17.18	17.61	17.10	18.48	Yes	268.52	268.52					
OS-1	269.63	272.10	11.36	11.36	11.36	12.38	11.82	13.74	No	260.74	260.74					
OI-1	269.14	272.00	15.20	15.20	15.20	13.46	12.45	13.48	No	256.80	256.80					
OS-3	274.63	277.89	16.90	16.90	16.90	16.29	15.58	16.75	No	260.99	260.99					
OD-3	274.96	277.85	16.74	16.74	16.74	16.14	15.45	16.60	No	261.11	261.11					
LD-3	275.80	278.62	8.76	8.76	8.76	6.86	5.24	7.55	No	269.86	269.86					
LD-4	276.30	279.25	14.90	14.90	14.90	13.64	12.14	14.22	No	264.35	264.35					
LD-5	270.02	272.94	15.10	15.10	15.10	13.57	12.14	14.48	No	257.84	257.84					
LS-6	271.40	274.14	14.68	14.68	14.68	13.51	12.58	14.17	No	259.46	259.46					
LD-6	270.09	274.03	13.82	13.82	13.82	12.72	11.68	13.50	No	260.21	260.21					
LD-8	269.90	272.83	10.30	10.30	10.30	9.62	8.90	9.96	No	262.53	262.53					
LR-2	287.50	289.85	15.40	15.40	15.40	14.43	13.56	14.95	No	274.45	274.45					
LR-3	275.50	278.06	10.14	10.14	10.14	9.34	8.54	9.92	No	267.92	267.92					
LR-6	270.90	274.39	11.84	11.84	11.84	11.34	10.78	11.73	No	262.55	262.55					
LR-8	270.00	273.42	11.30	11.30	11.30	10.98	10.47	11.32	Yes	262.12	262.12					
M-21	270.28	272.32	10.92	10.92	10.92	10.58	10.06	10.90	No	261.40	261.40					
M-22	270.40	273.88	11.78	11.78	11.78	11.29	10.74	11.68	No	262.10	262.10					
M-23	267.98	270.49	13.60	13.60	13.60	13.39	13.12	13.62	Yes	256.89	256.89					

ATTACHMENT A-2

*SITE INSPECTION CHECKLIST
AND LEACHATE DISPOSAL CHECKLIST*



O'BRIEN & GERE

Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date 7-6-11

Time 8:30

Field Technician MARTIN KOENIG

Weather Conditions SUNNY 75°

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	
Land Cap			
Signs of burrowing vermin			
Land cap irregularities (note anomaly)	✓		OK
French drainage system clear and function able	✓		OK
Concrete trough clear and function able	✓		NEEDS TO BE CLEARED OF VEGETATION
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"	✓		Yes
Discharge Pump inspected & operational	✓		Yes
Discharge pump oil level verified prior to use.	✓		Yes
Discharge pump drained of residual water (drained upon completion of use)	✓		Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓		off
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓		Yes
Leachate Collection System			
Leachate holding tank visually inspected for structural integrity	✓		OK
Leachate holding tank metal roof inspected for structural integrity	✓		OK

7-6-11

Leachate tank access doors locked (post pumpout)	✓	✓	Yes
Pump power panel(s) secured	✓	✓	Yes
Monitoring Wells (MW)			
Locks installed	✓	✓	Yes
MW's marked & identifiable	✓	✓	Yes
General Site Condition			
Trees & brush cleared off security fence		✓	WORK IN PROGRESS - CLEARED ROAD FRONT FENCE
Perimeter security fence intact & free of damage		✓	DOWN IN SWAMP AREA
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	✓	✓	Yes
Spill control material inspected & adequate	✓	✓	OK
PPE available and utilized as required	✓	✓	Yes
Emergency contact information posted within shed	✓	✓	Yes

Additional remarks (use separate sheet is required)

SITE MOWED 6-28-11, 6-29-11 FINISHED UP 7-6-11



O'BRIEN & GERE

Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date 8-4-11

Time 8:30

Field Technician MARTIN KOENNEKE

Weather Conditions Sunny 70°

Check (tasks completed in each event)

Inspection Features	Monthly	Quarterly	Remarks (Indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	✓		NONE VISABLE
Land cap irregularities (note anomaly)	✓		OK
French drainage system clear and function able	✓		OK
Concrete trough clear and function able	✓		VEGETATION NEEDS CLEARING
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"	✓		Yes
Discharge Pump inspected & operational	✓		Yes
Discharge pump oil level verified prior to use.	✓		Yes
Discharge pump drained of residual water (drained upon completion of use)	✓		Yes
Heat trace system operational & verified in the "ON" position (during wintertime periods)	✓		off
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	✓		Yes
Leachate Collection System			
Leachate holding tank visually inspected for structural integrity	✓		OK
Leachate holding tank metal roof inspected for structural integrity	✓		OK

8-4-11

Leachate tank access doors locked (post pumpout)	✓		Yes
Pump power panel(s) secured	✓		Yes
Monitoring Wells (MW)			
Locks installed	✓		Yes
MW's marked & identifiable	✓		Yes
General Site Condition			
Trees & brush cleared off security fence		✓	WORK IN PROGRESS
Perimeter security fence intact & free of damage		✓	DOWN IN SWAMP AREA
Site access driveway inspected	✓		OK
Security access gates function able	✓		Yes
Site gate signage intact	✓		NO SIGNS
Interior & exterior of utility storage shed inspected for damage & secure with locks	✓		Yes
Fire extinguisher serviceable, inspected, and inspection recorded	✓		Yes
Spill control material inspected & adequate	✓		STOCKED
PPE available and utilized as required	✓		Yes
Emergency contact information posted within shed	✓		Yes

Additional remarks (use separate sheet is required)

QUARTERLY well levels, pumped 10,020 gals
 TO CITY OF OSWEGO



O'BRIEN & GERE

Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date 9-6-11

Time 8:30

Field Technician MARTIN KOENNECKE

Weather Conditions LIGHT RAIN 60°

Check (tasks completed in each event)

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

9-6-11

Leachate tank access doors locked (post pumpout)	✓		Yes
Pump power panel(s) secured	✓		Yes
Locks installed	✓		OK
MW's marked & identifiable	✓		OK
Trees & brush cleared off security fence		✓	NEEDS WORK
Perimeter security fence intact & free of damage		✓	NEEDS WORK
Site access driveway inspected	✓		OK
Security access gates function able	✓		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
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)

Pump 20000 gals, Leachate to CITY OF OSwego
 MONTHLY well levels



O'BRIEN & GERE

Site Inspection Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date 9-7-2011

Time 0800

Field Technician Kaemmerer

Weather Conditions overcast 65°

Check (tasks completed in each event)

Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap		<input checked="" type="checkbox"/>	
Signs of burrowing vermin			
Land cap irregularities (note anomaly)			
French drainage system clear and function able		<input checked="" type="checkbox"/>	leakage on Chestnut Drive
Concrete trough clear and function able		<input checked="" type="checkbox"/>	" " "
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"			
Discharge Pump inspected & operational			
Discharge pump oil level verified prior to use.			
Discharge pump drained of residual water (drained upon completion of use)			
Heat trace system operational & verified in the "ON" position (during wintertime periods)			
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"			
Leachate Collection System			
Leachate holding tank visually inspected for structural integrity			
Leachate holding tank metal roof inspected for structural integrity			

Leachate tank access doors locked (post pumpout)			
Pump power panel(s) secured			
Monitored Well(s)			
Locks installed			
MW's marked & identifiable			
Ground Slope			
Trees & brush cleared off security fence		X	Chunks Entrance Gate & Fence.
Perimeter security fence intact & free of damage			
Site access driveway inspected			
Security access gates function able			
Site gate signage intact			
Interior & exterior of utility storage shed inspected for damage & secure with locks			
Fire extinguisher serviceable, inspected, and inspection recorded			
Spill control material inspected & adequate			
PPE available and utilized as required			
Emergency contact information posted within shed			

Additional remarks (use separate sheet is required)



O'BRIEN & GERE

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date: 7-6-11

Time: 8:30

Field Technician MARTIN KOENNECKE

Weather Conditions SUNNY 75°

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	9:15	10:15	43"	170 GPM	10,218
	LCW-2	9:15	10:15	43"		
	LCW-3	NOT PUMPED		43"		
9.5	LCW-4	9:15	10:15	43"		
Total						10,218

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	10:20	12:40	6.82	52°	120045	130045	10,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	84	10 MIN	0	8"-10"			
	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: 8-4-11

Time: 8:30

Field Technician MARTIN KOENNECKE

Weather Conditions Sunny 70°

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	10:00	11:00	42.5"	167	10,065
	LCW-2	10:00	11:00			
	LCW-3	NOT PUMPED				
	LCW-4	10:00	11:00			
Total						10065

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	11:00	13:20	6.80	54°F	130045	140065	10,020
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
		20 min	0	8"-10"			
Sample #1	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
	N/A						



O'BRIEN & GERE

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date: 9-6-11

Time: 8:30

Field Technician MARTIN KOENNECKE

Weather Conditions LIGHT RAIN 60°

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)
10.5"	LCW-1	9:30	11:30	43"	↓	↓
	LCW-2	9:30	11:30	45"		
	LCW-3	NOT PUMPED				
	LCW-4	9:30	11:30	10.5"		
	Total					20160

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	10:30	2:30	6.65	54°F	140065	160070	20005
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	83.5	20 min	0	8"			
	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
Sample #1							

ATTACHMENT A-3

*QUARTERLY POTW DISCHARGE REPORTS
3RD QUARTER 2011*



de maximis, inc.

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

Via electronic mail

October 20, 2011

Mr. Anthony A. Leotta, P.E.
City Engineer
City Hall
Oswego, New York 13126
tleotta@oswego.ny.org

**Re: Quarterly Discharge Report – 3rd Quarter 2011
Pollution Abatement Services Site – Oswego, New York
City of Oswego Wastewater Discharge Permit 6-2010-13**

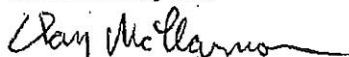
Dear Mr. Leotta:

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 July 2011 through September 2011.

The total gallons of leachate discharged during the third quarter of 2011 are 40,025 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 November 9, 2011. The corresponding data will be provided in the fourth quarter report.

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

Sincerely,
de maximis, inc.


Clay McClarnon

Attachments

cc: Michael Coffey – City of Oswego
PAS Oswego Site Management Committee

TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR CITY OF OSWEGO (JULY 2011)
LEACHATE DISCHARGE TO OSWEGO EASTSIDE WASTEWATER TREATMENT FACILITY
(Oswego SIU Wastewater Discharge Permit No.6-2010-13)

4Q 2010		1Q 2011		2Q 2011		3Q 2011		4Q 2011	
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
10/28/2010	20,000	1/5/2011	10,000	4/6/2011	10,010	7/6/2011	10,000		
52/6.2		45/6.8		43/6.3		52/6.8			
11/2/2010	20,000	2/9/2011	10,010	5/4/2011	10,020	8/4/2011	10,020		
50/6.4		42/6.8		45/6.8		54/6.8			
12/6/2010	20,000	3/2/2011	10,000	6/8/2011	10,005	9/6/2011	20,005		
50/6.7		42/6.4		52/7.1		54/6.6			
Total Discharged	60,000		30,010		30,035		40,025		0
Date Sampled*	10/28/11		3/2/11		mg/L		mg/L		mg/L
Analytes	mg/L								
Cyanide	ND		ND		mg/L				
Cadmium	ND		ND						
Chromium (total)	0.015		0.014						
Copper	ND		0.011						
Lead	ND		ND						
Nickel	0.58		0.65						
Silver	ND		ND						
Zinc	ND		ND						
Mercury	ND		ND						
BOD 5	13		32						
TSS	9		93						
Phenolics	0.14		0.11						
pH	7.2		6.4						

* 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: 7-6-11

Time: 8:30

Field Technician MARTIN KOENWECKE

Weather Conditions SUNNY 75°

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	9:15	10:15	43"	170 Gpm	10,218
	LCW-2	9:15	10:15	43"		
	LCW-3	NOT PUMPED		43"		
9.5	LCW-4	9:15	10:15	43"		
Total						10,218

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	10:20	12:40	6.82	52°	120045	130045	10,000
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	84	10min	0	8"-10"			
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: 8-4-11

Time: 8:30

Field Technician MARTIN KROENCKE

Weather Conditions Sunny 70°

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	10:00	11:00	42.5"	167	10,065
	LCW-2	10:00	11:00			
	LCW-3	NOT PUMPED				
	LCW-4	10:00	11:00			
Total						10065

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	11:00	13:20	6.80	54°F	130045	140065	19020
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
		20 min	0	8"-10"			
Sample #1	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	
						N/A	



O'BRIEN & GERE

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego)
Oswego, NY

Date: 9-6-11

Time: 8:30

Field Technician Martin Koennicke

Weather Conditions Light Rain 60°

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)
10.5"	LCW-1	9:30	11:30	43"	↓	↓
	LCW-2	9:30	11:30	43"		
	LCW-3	NOT PUMPED				
	LCW-4	9:30	11:30	10.5"		
	Total					20160

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	10:30	2:30	6.65	54° F	140065	160070	20005
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
	83.5	20 min	0	8"			
Sample #1	Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)						
	Date	Sample Location	Sample Volume	Sample Time	pH	Temperature	