ANNUAL PROGRESS REPORT

PAS OSWEGO SUPERFUND SITE

OSWEGO, NEW YORK

July 2017

Submitted By:



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Via Fedex

July 31, 2017

Ms. Patricia Pierre Central New York Remedial Section New York Remediation Branch Emergency and Remedial Response Division U.S. Environmental Protection Agency, Region II 20th Floor, 290 Broadway New York, New York 10007

Subject: Annual Progress Report for July 2016 through June 2017 Operations, Maintenance and Long Term-Monitoring Activities Pollution Abatement Services (PAS) Site, Oswego, NY

Dear Patricia:

This Annual Progress Report (Annual Report) is submitted pursuant to *Consent Decree 98-CV0112-NPMGJD* and details the operation, maintenance, and long-term monitoring activities at the Pollution Abatement Services (PAS) Site (Site) in Oswego, NY (Consent Decree). This Annual Report covers the period July 1, 2016 through June 30, 2017, and is consistent with the requirements of Paragraph 30 of the Consent Decree. Our next annual progress report will be submitted on or before July 31, 2018 and will document work completed between the period July 1, 2017 and June 30, 2018.

The data for this report are presented in three attachments as discussed below. Attachment I presents graphs, figures and tables documenting long-term monitoring trends for the Site. Graphs showing slurry wall well pair groundwater elevations (Section I-A) and semi-annual groundwater and leachate sampling results (Section I-B) are included in Attachment I. In addition, figures showing groundwater potentiometric surface contours and vertical hydraulic gradients for each quarter of the reporting period are included in Section I-C of Attachment I. Tables showing the leachate volume removed from the Site LCW wells are provided in Section I-D. Attachment II of this report contains a description of the actions completed under the Consent Decree for each quarter of this reporting period. Site maintenance and monitoring records and leachate removal and disposal records for each quarter of the reporting period are also included in Attachment II. The PAS Site Institutional Control Implementation Plan Annual Certification is provided in Section B-5 of Attachment II and documents that the requirements of the Institutional Control Plan were satisfied during this reporting period. Finally, Attachment III of this report provides a description and schedule of the actions planned during the next reporting period (July 2017 - June 2018).

Allentown, PA • Clinton, NJ • Knoxville, TN • Farmington Hills, MI • Riverside, CA St. Charles, IL • Sarasota, FL • Jacksonville, FL • Houston, TX • Simsbury, CT • Waltham, MA



SUMMARY OF LEACHATE REMOVAL ACTIVITIES

During this reporting period (July 2016 – June 2017) PAS leachate was treated and disposed at the City of Auburn POTW and the City of Oswego POTW. A total of 180,165 gallons were removed from the containment system. This included 100,130 gallons of leachate delivered to the Auburn POTW and 80,035 gallons of leachate delivered to the Oswego POTW during this reporting period (Attachment I-D, Table 1). The City of Oswego obtained revised pre-treatment standards and started accepting PAS leachate in January 2017. In accordance with the Consent Decree and the approved Operation Monitoring and Maintenance Plan for the PAS Site, the City of Auburn is retained as the alternate disposal facility in the event that the City of Oswego is unable to accept PAS leachate in the future.

HYDRAULIC CONTROL OF SLURRY WALL CONTAINMENT SYSTEM

The effectiveness of the hydraulic control of the slurry wall containment system is evaluated based on a review of water level elevations used to determine hydraulic gradients, both horizontal and vertical, around and beneath the containment system. Its effectiveness is also evaluated by determining whether the water level elevations are maintained below the top of the slurry wall at its downgradient extent. Horizontal gradients around the containment system are calculated using monthly water level elevations recorded at the SWW-series monitoring wells which are located around the perimeter of the slurry wall as shown in Attachment I-A. Vertical gradients beneath the containment system are calculated based on the difference in the water level potentiometric surface in the overburden and the bedrock monitoring wells located in the vicinity of the containment system. Figures showing the potentiometric water surfaces for both the bedrock and overburden monitoring wells for each of the quarterly water level monitoring events are presented in Attachment I-C (Set 3).

The water level data for the SWW wells continue to show that the horizontal gradients at well pairs SWW-5/6 and SWW-11/12 are influenced by both leachate pumping and seasonal regional water level elevations, while horizontal gradients at other SWW well pairs are primarily affected by regional water level elevations outside the containment system. During the reporting period, the water levels at SWW-5 and SWW-11, the two interior SWW wells at the downgradient extent of the slurry wall, continued to remain stable with water level elevations inside dropping slightly over the year and remaining well below the top of the slurry wall. The trend lines presented in the SWW-5/6 and the SWW-11/12 charts show continued declines in average elevation inside versus the elevations outside. The charts indicate that leachate pumping continues to effectively maintain hydraulic control to the degree practicable, although low seasonal levels outside the containment system influence the gradients.

The vertical gradient figures shown in Attachment I-C indicate that vertical gradients are also seasonally affected by the regional water levels outside the containment system. The vertical hydraulic gradient plots presented show upward gradient trends over most of the Site during the spring, summer and winter periods due to stable water levels inside the containment system, and to

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higher regional water levels outside the containment system. Vertical gradients typically trend downward during late summer when regional water levels are relatively low. All periods other than the August period showed upward gradients were present especially in the area around LCW-4 and the area around LCW-1 and LCW-2 indicating continued hydraulic control of the Site. We note that generally groundwater elevations as observed in the SWW1 and SWW2 graph are well below previous years and White Creek elevations in August were the lowest observed in 5 years as shown in the SWW11/SWW12 graph.

The routine elevation monitoring conducted during this reporting period indicates hydraulic control of the slurry wall containment system is being maintained through routine operation of the leachate collection system. This observation remains consistent with observations reported in previous annual reports.

LONG-TERM GROUNDWATER MONITORING RESULTS

The long-term groundwater quality monitoring results and trends for the downgradient monitoring wells LR-6, LR-8 and M-21 are presented graphically for the period from May 1998 to May 2017 in Attachment I-B. In accordance with the 2016 annual report, sampling of LR-6 is scheduled to be performed in fall of 2017 prior to the next 5 year review. The historical VOC concentrations at these wells are also presented in tabular format in Figure 2 in Attachment I-C. Semi-annual groundwater quality monitoring results indicate that VOC-concentrations (mainly chlorobenzene) continue to fluctuate at low part per billion levels at down-gradient monitoring wells LR-8 and M-21. The concentration of 1,1 dichloroethane at well LR-6 in 2016 continued to remain at or near the detection level. The only Consent Decree performance standard constituent (Table 2) above detection level at LR-6 for the last 10 years has been 1,1 dichloroethane. This concentration remained below the performance standard for the July 2016 to May 2017 period and has not exceeded the performance standard since 1999. Monitoring results at LR-8, the long-term monitoring well located closest to the downgradient extent of the slurry wall, remained low during the July 2016 to May 2017 period with benzene concentrations approaching the performance standard of 0.7 ug/L, while chlorobenzene concentrations were above the performance standard of 5 ug/L in November 2016 and May 2017. Other VOC constituents in this well remained at or near detection levels. Groundwater monitoring results at LR-8 remained consistent with the long-term trend of low VOC concentrations at this location. Monitoring results for downgradient well M-21, which is located south of Mitchell Street and north of the slurry wall containment system, were below the performance standards during the July 2016 to May 2017 period with the exception of chlorobenzene which fluctuated at near the performance standard of 5 ug/L during the period. General trends for VOC constituents in the monitoring wells show a seasonal variation of slightly higher concentrations in the fall versus the spring for LR-6 and LR-8 wells. Well M-21 had slightly higher concentrations of chlorobenzene in the spring versus the fall with concentrations slightly above to below the performance standard in the spring and below the performance standard in the fall.

Sampling of the bedrock well M-22 will be performed again in fall of 2017. Well OD-3 was sampled for the Consent Decree performance standards semi-annually for the July 2016 to May



2017 period. The current data along with historic data is provided in Table 3. The samples from well OD-3 indicated benzene and chlorobenzene above the performance standard in the fall of 2016 which dropped to ND in May 2017. All other constituents at OD-3 were at ND in May 2017.

Graphs showing leachate concentrations at LCW-2 and LCW-4 during the period November 1998 to May 2017 are also included in Attachment I-B. Leachate VOC concentrations in leachate collection well LCW-2, located in the downgradient collection trench, and well LCW-4, located in the central collection trench, showed leachate quality results consistent with historic concentrations. LCW-4 leachate concentrations continued to be generally higher than leachate concentrations reported at LCW-2. Xylene, which is generally the highest concentration constituent in the LCW-4 location, remained below historic levels over the past year. Benzene, which is generally the highest concentrations at both LCW-2 location, also remained lower than historic levels. However, concentrations at both LCW locations, inside the containment area, remain above the concentrations of wells outside the containment area and the performance standards.

These long-term monitoring results continue to support the findings that hydraulic control of the containment system has allowed VOC concentrations down-gradient of the slurry wall containment system to decline over time and achieve performance standards through natural attenuation, and that the Site remedies continue to be protective of human health and the environment.

If you have any questions, please call me at (865) 691-5052.

Sincerely, *de maximis, inc*

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Clay McClarnon

CMC/dsr

Attachments

 cc: PAS Oswego Steering Committee Marla Weider, Esq. USEPA Payson Long, NYSDEC, Div. of Hazardous Waste Remediation Brian Rogers, NYSDEC Region 7 Office J. Kenney, NYDOH, Office of Public Health

LIST OF ATTACHMENTS

ATTACHMENT I – FIGURES & TABLES

- I A Slurry Wall Groundwater Elevation Charts
- I B Long Term Monitoring Groundwater and Leachate Quality Graphs
- I C Figure 1 Existing Site Wells

Figure 2 – Historical VOC Concentrations

Figure Set 3 -<u>Potentiometric Surfaces and Inferred Vertical Hydraulic Gradient Figures</u> Figure 2016-Q3-A - Potentiometric Surfaces – 8/2/2016 Figure 2016-Q3-B - Inferred Vertical Hydraulic Gradient – 8/2/2016 Figure 2016-Q4-A - Potentiometric Surfaces – 11/7/2016 Figure 2016-Q4-B - Inferred Vertical Hydraulic Gradient – 11/7/2016 Figure 2017-Q1-A - Potentiometric Surfaces – 2/15/2017 Figure 2017-Q1-B - Inferred Vertical Hydraulic Gradient – 2/15/2017 Figure 2017-Q2-A - Potentiometric Surfaces – 5/12017 Figure 2017-Q2-B - Inferred Vertical Hydraulic Gradient – 5/1/2017

 I – D Table 1 – Historical Leachate Removal Summary Table 2 – Consent Decree Performance Standards Table 3 – Additional Bedrock Groundwater Monitoring Results

ATTACHMENT II – ACTIONS COMPLETED

- II A 3^{rd} Quarter 2016
 - A-1 Groundwater Elevation Data
 - A-2 Site Inspection Checklist and Leachate Disposal Checklist
 - A-3 Quarterly POTW Discharge Reports 3rd Quarter 2016
- II B 4^{th} Quarter 2016
 - B-1 Groundwater Elevation Data
 - B-2 Site Inspection Checklist and Leachate Disposal Checklist
 - B-3 Semi-Annual Leachate and Groundwater Monitoring (November 2016)
 - B-4 Quarterly POTW Discharge Reports 4th Quarter 2016
 - B-5 Institutional Controls Certification Memorandum

II - C <u>1st Quarter 2017</u>

- C-1 Groundwater Elevation Data
- C-2 Site Inspection Checklist and Leachate Disposal Checklist
- C-3 Quarterly POTW Discharge Reports 1st Quarter 2017

$II - D 2^{nd}$ Quarter 2017

- D-1 Groundwater Elevation Data
- D-2 Site Inspection Checklist and Leachate Disposal Checklist
- D-3 Semi-Annual Leachate and Groundwater Monitoring (May 2017)
 D-4 Quarterly POTW Discharge Reports 2nd Quarter 2017

ATTACHMENT III – ACTIONS PLANNED

III – Future Report I-A

SLURRY WALL











Prepared by de maximis, inc. 7/19/2017



I-B

GRAPHS

Long Term Groundwater Monitoring at LR-6 PAS Oswego Superfund Site Groundwater 1998 - 2016



de maximis, inc. 7/19/2017



de maximis, inc. 7/19/2017

Long Term Groundwater Monitoring at M-21 PAS Oswego Superfund Site Groundwater 1998 - 2017



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I-C

FIGURES



- 🗣 Overburden Monitoring Well
- Manhole
- Fence (Site Boundary)
- Slurry Wall

Project No.: 3131 Plot Date: 4 May 2012 Arc Operator: BJAR

Reviewed by:

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ddms

Saint Paul, Minnesota 55108 Main Phone: (651) 842-4224 www.ddmsinc.com

Figure 1

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Map Legend:

- Bedrock Monitoring \blacklozenge Well
- Leachate Collection Well (Overburden) ÷
- Overburden \bullet Monitoring Well
- Fence (Site . . . Boundary)
- Slurry Wall



Notes: VOC concentration values displayed in tables are measured in ug/L.

Data Qualifier Definitions: ND = Not detected NS = Not Sampled J = Estimated concentration (less than sample quantitation limit)

Basemap Source: ersi World Imagery

Spatial Projection:

Coordinate System: UTM Zone 18N Units: Meters Datum: NAD83

Plot Info:

Created For: PAS Project No.: 1547-3131 Plot Date: 7/24/2017 Arc Operator: JNR Reviewed by: BJR

Figure 2 **Historical Concentrations** of VOCs of Concern **Detected in Consent** Decree Wells (1998-2016)

Pollution Abatement Servcies Site Oswego, New York



60 Plato Boulevard East, St. Paul, Minnesota 55107 Main Phone: (651) 842-4224 www.ddmsinc.com

Figure Set 3

Hydraulic Gradient



- Bedrock Monitoring Well
- Leachate Collection Well (Overburden)
- Overburden Monitoring Well
 - Potentiometric Surface Contours (ft)
- ← Fence (Site Boundary)
- Slurry Wall

Notes: LCW wells labeled on Bedrock Water Surface map for reference only and were not used in creation of the potentiometric surface.

Linear kriging was used to determine both potentiometric surfaces. Bedrock contours within the containment system are inferred from the identified bedrock wells.

POTENTIOMETRIC SURFACES August 2, 2016

PAS Site, Oswego, New York







- Bedrock Monitoring Well
 - Leachate Collection Well (Overburden)
 - Overburden Monitoring Well
- Fence (Site Boundary)
 - Line of Potentiometric Surface Difference (ft)
 - Upward Vertical Hydraulic Gradient
 - Downward Vertical Hydraulic Gradient
 Slurry Wall

Notes:

Overburden wells within the slurry wall were used to calculate the overburden potentiometric surface. Bedrock wells outside the slurry wall were used to calculate bedrock potentiometric surface. The bedrock potentiometric surface was subtracted from the overburden surface to produce the inferred vertical hydraulic gradient.

Negative gradient values indicate an upward hydraulic gradient.

INFERRED VERTICAL HYDRAULIC GRADIENT - August 2, 2016

PAS Site, Oswego, New York







- Bedrock Monitoring Well
- Leachate Collection Well (Overburden)
- Overburden Monitoring Well
 - Potentiometric Surface Contours (ft)
- Fence (Site Boundary)
- Slurry Wall

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Notes: LCW wells labeled on Bedrock Water Surface map for reference only and were not used in creation of the potentiometric surface.

Linear kriging was used to determine both potentiometric surfaces. Bedrock contours within the containment system are inferred from the identified bedrock wells.

POTENTIOMETRIC SURFACES November 7, 2016

PAS Site, Oswego, New York







- Bedrock Monitoring Well
 - Leachate Collection Well (Overburden)
- Overburden Monitoring Well
- Fence (Site Boundary)
 - Line of Potentiometric Surface Difference (ft)
 - Upward Vertical Hydraulic Gradient
 - Downward Vertical Hydraulic Gradient Slurry Wall

Notes:

Overburden wells within the slurry wall were used to calculate the overburden potentiometric surface. Bedrock wells outside the slurry wall were used to calculate bedrock potentiometric surface. The bedrock potentiometric surface was subtracted from the overburden surface to produce the inferred vertical hydraulic gradient.

Negative gradient values indicate an upward hydraulic gradient.

INFERRED VERTICAL HYDRAULIC GRADIENT - November 7, 2016

PAS Site, Oswego, New York









- Bedrock Monitoring Well
- Leachate Collection Well (Overburden)
- Overburden Monitoring Well
 - Potentiometric Surface Contours (ft)
- ◆ Fence (Site Boundary)
- Slurry Wall

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Notes: LCW wells labeled on Bedrock Water Surface map for reference only and were not used in creation of the potentiometric surface.

Linear kriging was used to determine both potentiometric surfaces. Bedrock contours within the containment system are inferred from the identified bedrock wells.

POTENTIOMETRIC SURFACES Febuary 15, 2017

PAS Site, Oswego, New York









- Bedrock Monitoring Well
 - Leachate Collection Well (Overburden)
- Overburden Monitoring Well
- Fence (Site Boundary)
 - Line of Potentiometric Surface Difference (ft)
 - Upward Vertical Hydraulic Gradient
 - Downward Vertical Hydraulic Gradient Slurry Wall

Notes:

Overburden wells within the slurry wall were used to calculate the overburden potentiometric surface. Bedrock wells outside the slurry wall were used to calculate bedrock potentiometric surface. The bedrock potentiometric surface was subtracted from the overburden surface to produce the inferred vertical hydraulic gradient.

Negative gradient values indicate an upward hydraulic gradient.

INFERRED VERTICAL HYDRAULIC GRADIENT - Febuary 15, 2017

PAS Site, Oswego, New York







- Bedrock Monitoring Well
- Leachate Collection Well (Overburden)
- Overburden Monitoring Well
 - Potentiometric Surface Contours (ft)
- ◆ Fence (Site Boundary)
- Slurry Wall

Notes: LCW wells labeled on Bedrock Water Surface map for reference only and were not used in creation of the potentiometric surface.

Linear kriging was used to determine both potentiometric surfaces. Bedrock contours within the containment system are inferred from the identified bedrock wells.

POTENTIOMETRIC SURFACES May 1, 2017

PAS Site, Oswego, New York







I-D

TABLES

TABLE 1

HISTORICAL LEACHATE REMOVAL SUMMARY (Gallons) Pollution Abatement Services Superfund Site Oswego, New York

	9	1 IGR Orde	er			94 IGR Orde	r			98 Conse	ent Decree)																
Month	1992	1993	1994	1994	1995	1996	1997	1998	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Jan		20,170	30,067		25,445	25,441	25,972	21,485		9,979	15,706	10,506	9,751	10,537	9,962	10,472	9,972	9,683	9,503	20,184	10,918	10,000	10,005	10,000	10,000	10,000	10,000	10,010
Feb	18,937	20,283	29,661		25,830	23,457	22,316	12,924		16,056	9,687	10,294	10,444	9,904	9,899	10,300	10,030	9,620	9,656	11,200	11,293	10,010	10,000	10,000	10,000	10,000	10,000	10,005
Mar	20,314	20,347	29,602		24,852	25,098	24,257	25,455		15,785	8,927	10,484	10,307	9,896	10,573	10,149	9,812	0	9,500	20,125	11,000	10,000	10,000	10,000	10,000	10,000	10,000	10,005
Apr	20,140	30,403	29,051		22,815	22,187	26,793	26,009		28,110	9,352	19,609	8,463	10,211	9,765	9,947	9,795	10,058	8,575	19,600	10,995	10,010	10,000	10,000	10,000	10,125	10,000	10,005
May	20,620	30,803	29,199		23,690	23,718	24,840	23,935		13,566	26,160	10,158	8,868	10,117	10,503	10,215	9,743	9,693	7,712	20,047	11,000	10,020	20,000	20,000	20,000	20,200	20,000	20,005
Jun	20,030	30,244	20,481		24,586	23,924	23,830	20,052		20,685	25,292	10,055	9,822	10,518	10,105	10,193	9,885	10,110	9,474	19,000	10,950	10,005	20,000	20,000	20,000	20,400	20,000	20,005
Jul	20,270	31,069	20,655		23,450	25,402	25,340	20,411		10,121	20,416	10,470	10,255	10,197	10,292	10,100	9,902	9,472	10,144	18,873	0	10,000	20,000	20,000	20,130	20,700	20,000	
Aug	20,363	31,404	25,690		24,188	25,129	19,677	20,292		21,832	23,597	9,368	10,254	10,403	10,306	10,025	9,839	9,781	10,200	19,600	19,000	10,020	20,000	20,000	20,000	20,200	20,130	
Sep	20,807	31,232	25,677		18,343	21,514	20,417	20,520		10,255	20,407	10,473	9,907	10,566	10,456	9,672	9,499	9,616	10,000	19,000	12,800	20,005	20,000	20,000	20,000	20,700	20,000	
Oct	19,421	31,114	14,815	0	23,288	24,541	17,867	16,458		10,255	17,563	10,226	10,400	8,196	10,717	9,773	9,802	0	10,871	18,806	20,000	20,005	20,000	20,000	20,000	20,000	20,000	
Nov	20,409	30,239		25,562	20,133	20,589	18,564		8,185	10,250	9,042	9,355	10,435	9,908	10,486	9,987	9,692	9,497	10,750	19,068	20,000	20,005	10,000	10,000	10,000	10,100	10,000	
Dec	20,497	30,311		25,121	22,544	22,347	19,498		10,238	10,816	10,463	9,214	9,686	10,130	10,359	9,833	9,779	9,603	10,900	11,009	20,000	10,010	10,000	10,000	10,000	10,000	10,000	
Totals	221,808	337,619	254,898	50,683	279,164	283,347	269,371	207,541	18,423	177,710	196,613	130,212	118,592	120,583	123,423	120,666	117,750	97,133	117,285	216,512	157,956	150,090	180,005	180,000	180,130	182,425	180,130	80,035
Average Removal Per Month	20, 164	28,135	25,490	16,894	23,264	23,612	22,448	20,754	9,212	14,809	16,384	10,851	9,883	10,049	10,285	10,056	9,813	8,094	9,774	18,043	13,163	12,508	15,000	15,000	15,011	15,202	15,011	13,339

SUMMARY:	TOTALS (GAL)	<u>AVG RATE (GAL/MO)</u>	
1991 IGR Order:	814,325	23,951	
1994 IGR Order:	1,090,106	22,710	
1998 C D:	2,845,673	12,534	(11/98 to present)
Total (To Date)	: 4,750,104		

1) Used CECOS - Niagara Falls for lechate treatment/disposal beginning in May 1996 - DuPont Deepwater used for treatment/disposal prior to May 1996.

2) BBLES completed removal work at the end of July 2000; OBG began in Aug 2000.

3) Leachate collection well LCW4 pumped per 11/15/99 LCW4 pumping protocol as approved by EPA.

4) Leachate disposed at Clean Harbors facilities at Bristol CT from Mar 2005 to Oct 2007 and Baltimore MD from Nov 2007 to Jun 2007.

5) Leachate disposed at the Auburn Watewater Treatment Plant in Auburn, NY starting July 2008 to Oct 2010.

6) Leachate disposed at the City of Oswego Wastewater Treatment Plant in Oswego, NY starting Oct 2010 to Mar 2015.

7) Leachate disposed at the Auburn Watewater Treatment Plant in Auburn, NY starting Mar 2015 to Dec 2015.

8) Leachate disposed at the City of Oswego Wastewater Treatment Plant in Oswego, NY restarted Jan 2017.

Table 2

PAS Site Oswego, New York

<u>Consent Decree</u> <u>Performance Standards</u>

Volatile Organic Compounds in Ground Water and Leachate														
Constituent	Analysis	Performance Standard ug/L												
Benzene	8260B	0.7												
Chlorobenzene	8260B	5												
1,1-Dichloroethane	8260B	5												
Ethylbenzene	8260B	5												
Toluene	8260B	5												
Xylenes	8260B	5												

Notes:

1. ug/L = micrograms per liter which equates to parts per billion (ppb).

TABLE 3 PAS OSWEGO SUPERFUND SITE

ADDITIONAL BEDROCK GROUNDWATER MONITORING RESULTS

	Perf Std				Additional	monitoring	well MW-22				Additic	onal mon we	II MW-23	Additional monitoring well OD-3									
LTM CONSTITUENT	(ug/l)	Apr 06	May 06	May 09	May 14	Nov 14	May 15	Nov 15	May 16	Nov 16	Apr 06	May 06	May 09	Apr 06	May 06	May 14	Nov 14	May 15	Nov 15	May 16	Nov 16	May 17	
Benzene	0.7	0.12J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	1.25	ND	0.85	ND	
Chlorobenzene	5	1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11J	ND	ND	26.3	ND	19.2	ND	16.5	ND	
1,1-Dichloroethane	5	ND	0.14J	ND	1.27	ND	0.12J	0.30J	0.30J	0.30J	0.86	0.9	0.82	ND	ND	ND	ND	ND	0.13J	ND	0.5	ND	
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND							
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16J	ND	ND	ND	0.31	ND	0.26J	ND	
Xylenes	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11J	ND	0.31J	ND	0.39J	ND	ND	ND	

NOTES:
 Additional downgradient bedrock wells M-22, M-23 and OD-3 monitored during April and May 2006 pursuant to January 25, 2006 letter to EPA and EPA approval letter dated February 2, 2006. M-22 and OD-3 sampled in 2014 and 2015 pursuant to March 21, 2014 letter and EPA approval. Sampling of MW-22 and OD-3 continued based on 2015 Annual Report.
 All results ug/L

II-A

3rd QUARTER REPORT 2016
<u>QUARTERLY PROGRESS REPORT – 3rd QUARTER 2016</u> Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: Pollution Abatement Services Site Oswego, New York

PERIOD COVERED: July – September (3rd Quarter) 2016

ACTIONS TAKEN DURING QUARTER:

- Leachate removal and site maintenance and monitoring activities were conducted at the Pollution Abatement Services (PAS) site (Site), in Oswego, NY by OBG Operations LLC (OBG) consistent with the PAS Site Operation, Maintenance and Long-term Monitoring Plan (Work Plan).
- A total of 60,130 gallons of leachate were removed from the Site during the period of July, August and September 2016. Specific quantities of leachate removed included 20,000 gallons in July, 20,130 gallons in August and 20,000 gallons in September. Details of the leachate removal for each month, along with historical leachate removal documentation are described in this progress report.
- During the months of July September 2016, leachate was pumped monthly from the PAS Site. The leachate was pumped into trucks and shipped for discharge and treatment to the City of Auburn Publicly Owned Treatment Works Plant (POTW) located at 35 Bradley Street, Auburn, NY. This discharge was authorized under the Industrial Pretreatment Program Wastewater Discharge Permit # 2014-01.
- Quarterly groundwater elevation monitoring was performed on August 2, 2017. Quarterly groundwater elevation monitoring results for the SWW- series monitoring wells (SWW-1 through SWW-12), leachate collection wells (LCW-1 through LCW-4), M-series wells (M-21 through M-23), LR-series wells (LR-2, 3, 6 and 8), LD-series wells (LD-3, 4, 5, 6, and 8), along with wells OS-1, OS-3, OI-1, OD-3 and LS-6 were recorded on the Pre-Pumping Well Monitoring Level Form. (Attachment A-1)
- Site maintenance activities were conducted monthly in combination with the monthly leachate removal event. The Site Inspection Checklist was used to document the land cap, leachate discharge system, leachate collection system and general Site conditions. (Attachment A-2) Monthly Site maintenance activities included the following:
 - Inspected the perimeter security fence of the Site. No discrepancies were reported at the time of the inspection.
 - The Site single French drainage system and two (2) concrete troughs were visually inspected and cleared of grass. No discrepancies were reported at the time of the inspection.
 - Visually inspected the Site slurry-wall containment vegetated cap for signs of burrowing vermin or surface anomalies. No discrepancies were reported at the time

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of the inspection. Mowing of the surface grass was completed the week of July 7, 2016.

- 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 were 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. Although the front plywood was weathering.
- 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 were inspected. No discrepancies were reported at the time of the inspection.
- On July 13, August 3, and September 14, 2016, OBG performed the monthly pre-pumping collection system inspection for leachate collection wells LCW-1, 2, 3 & 4, along with inspection of the leachate discharge pumping system. Observations were recorded on the Site Inspection Checklist. In advance of each leachate removal event, OBG informed the City of Auburn POTW located at 35 Bradley Street, Auburn, NY of the anticipated delivery of leachate tankers. (Attachment A-2)
- Upon completing the monthly leachate collection system inspections, OBG manually energized the 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, was recorded on the Leachate Disposal Checklist. (Attachment A-2)
- During the months of July, August and September 2015, OBG pumped a combined total of 60,130 gallons of leachate from LCW 1, 2, 3 & 4 into the leachate collection tank and then loaded the leachate into trucks for shipment to the City of Auburn Water POTW. The volume and flow rate of each leachate discharge was recorded onto the Leachate Disposal Checklist, as was leachate water pH, and temperature. The leachate pumping system consists of a leachate tank suction hose, gas powered trash pump, inline bag filter system, pressure gauge, leachate sampling port, and discharge hose to leachate tanker. The amount shipped was recorded onto the Leachate Disposal Checklist and documented in the Bill of Lading. (Attachment A-2)
- Upon completing each monthly leachate discharge the tank suction hoses were placed back into the leachate hold tank and the leachate pump system was shut down and prepared for storage. The concrete leachate hold tank was secured, as was the wooden maintenance shed. Upon the completion of monthly Site activities, the Site metal access gates were closed and padlocked.
- On June 15, 2016, the quarterly discharge sample required under the City of Auburn POTW permit was taken and hand delivered to Life Science Laboratories in East Syracuse, NY for analysis. The data was included in the Auburn 3rd quarter report.

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• The PAS Oswego Site quarterly discharge report for the 3rd quarter of 2016 for the City of Auburn was submitted on August 30, 2016 in accordance with Permit 2014-01. The quarterly reports for Auburn do not follow annual quarters. Therefore the quarterly report for Auburn included June, July and August 2016. The quarterly report to the City of Oswego was submitted on October 3, 2016. (Attachment A-3)

DOCUMENTATION OF REMOVAL ACTIVITIES FOR PREVIOUS QUARTER

- The Groundwater Pre-Pumping Well Monitoring Level Form for August 2, 2017 is attached to this report. (Attachment A-1)
- The Site Inspection Checklist for July 13, August 3 and September 14, 2016 are attached to this report. (Attachment A-2)
- The Leachate Disposal Checklist for the July 7 and 13, August 2 and 3 and September 9 and 14, 2016 are attached to this report. (Attachment A-2)
- The Bill of Lading for the July 13, August 3 and September 14, 2016 are attached to this report. (Attachment A-2)
- The PAS Quarterly Discharge reports submitted on August 30, 2016 to the City of Auburn and the report submitted to the City of Oswego on October 3, 2016 are attached to this report. (Attachment A-3)

ATTACHMENT A-1

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GROUNDWATER ELEVATION DATA

O'Brien & Gere Operation (O'Brien & Gere) PAS Oswego Site Oswego, New York Pre-Pumping Well Monitoring Levels

Date - 8	-2-16			Technician	. MAR	TIN KO	envec	ke		Month -
Well	Riser	Well	Range ^{''} Verific	ation	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Monthly	psite Field	Measure	ments	
Number	Elevation	Average Well Level	Low Well Level	High Well Level	Well Level (1st) Check	Well Level (2nd) Check	Well Wit (based of h range YES	Hin Range Istorioal well I data) NO	Well:Level Check (3rd): (IFNO'8 wells not Willin (argeted ringe)	NOTES
SWW1	289.33	10.53	9.98	11.14	11.16	11.16		1	11.16	
SWW2	289.37	15.87	15.62	16.36	16,28	16.28	V	<u> </u>		
SWW3	286.50	17.11	16.76	17.46	17.60	17.60		1	17.60	
SWW4	283.60	16.80	15.72	18.00	17.75	17,45	V			
SWW5	277.02	13.17	12.26	14.22	14.92	14,92		1	14.92	
SWW6	273.06	9.64	9,15	10.68	11.36	11.36		V	11,36	·
SWW7	277.93	8.31	7.92	8.64	8,60	8.60	V			
SWW8	278.24	7.18	4.89	9.58	9,90	9.90		1	9,90	·····
SWW9	285.55	17.73	17.45	18.50	18,70	18,70		V	18,70	
SWW10	280.43	15.04	12.72	17.24	17,24	17.24	V			
SWW11	273.50	9.31	8.42	10.48	11.08	11.08		\checkmark	11.08	· · · · · · · · · · · · · · · · · · ·
SWW12	272.82	13.28	11.45	15.74	15.54	15.54	V			
LCW-1	272.21	8.82	7.50	10.20	10.84	10.84		V	10,84	·
LCW-2	274.44	11.07	9.76	12.44	13,08	13.08		V	13.08	
LCW-3	284.36	17.96	17.74	18.31	18,50	18.50		1	18.50	· · · · · · · · · · · · · · · · · · ·
LCW-4	285.70	17.79	17.10	18.48	18,00	18.06	<u> </u>			
OS-1	272.10	12.90	11.36	15,66	16,48	16.48		V	16.68	
0 -1	272.00	13.34	12.40	15.20	16.08	16,08		1	16.08	
OS-3	277.89	16.69	15.58	18.18	18.40	18,40		\checkmark	18,40	
OD-3	277.85	16.53	15.45	18.02	18,20	18,20			18,20	
LD-3	278.62	7.32	5.24	9.96	10,26	10,26		V	10,26	
LD-4	279.25	13.98	12.14	16.22	16.14	16,14	V			
LD-5	272.94	13.91	12.14	16.38	16.16	16.16	\checkmark		- <u></u>	
LS-6	274.14	14.01	12.58	16.32	16.26	16.26	_/			· · · · · · · · · · · · · · · · · · ·
LD-6	274.03	13.27	11.68	1.5.80	15.72	15.72	_/_			
LD-8	272.83	9.87	8,90	11.04	11,28	11,28		\checkmark	11.28	
LR-2	289.85	14.60	13.56	15.70	15,52	15.52	V			
LR-3	278.06	9.55	8.54	11.30	11.40	11.40		1	11.40	
LR-6	274,39	11.70	10.78	13.52	13,70	13,70			13.70	
LR-8	273.42	11.23	10.47	12.42	12.88	12.88		V	12.88	
M-21	272.32	10.86	10.06	12.14	12.42	12.42			12.42	
M-22	273.88	11.65	10.74	13.47	13,66	13,66			13.66	
M-23	270.49	13.59	13.10	14.54	14,53	14,53	0			

ATTACHMENT A-2

SITE INSPECTION CHECKLIST AND LEACHATE DISPOSAL CHECKLIST



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 7-13-16

Field Technician MARTIN KDENNecky Weather Conditions SUNNY 75°

Check V (tasks completed in each event)					
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)		
Land Cap					
Signs of burrowing vermin	<u> </u>		NONE VISABLY		
Land cap irregularities (note					
anomaly)	V		SITE STANTED TO GET MOUVED 7-7-16		
French drainage system clear and			1 .		
function able	V		OK		
Concrete trough clear and					
function able	r		OK		
Leachate Discharge System	• . • . • . • .				
City of Oswego sanitary discharge					
valve positioned "Open"	V		NA YES		
Discharge Pump inspected &					
operational	V		Yes		
Discharge pump oil level verified					
prior to use.	ν		Yes		
Discharge pump drained of					
residual water (drained upon			14.6		
completion of monthly discharge)	i/		NA		
Heat trace system operational &					
verified in the "ON" position			off		
(Applicable Oct - May)	V		CAL		
Flow totalizer operational. Flow					
readings recorded onto					
"Leachate Discharge Form"			NA		
Leachate Collection System	ļ				
Leachate holding tank visually					
inspected for structural integrity		ļ	Yes, ok		
Leachate holding tank metal roof	ļ ,				
inspected for structural integrity	<u> </u>		1 1 KS, OK		

7-13-14

Leachate tank access doors			
locked (post pump out)	V	L	Yes
Pump power panel(s) secured	V		Yes
Monitoring Wells (MW)			
Locks installed	V		Yes
MW's marked & identifiable	\checkmark		Yes
General Site Condition		111111 11111	
Trees & brush cleared off security			
fence	\bigvee		OK, WORK IN PROGRESS
Perimeter security fence intact &			wi/
free of damage	\vee		0K
Site access driveway inspected &			,,
free on snow & damage	V		OK
Security access gates / Padlock &			
chain serviceable	V		Yes
Site gate signage intact	\checkmark	ļ	Yes
Interior & exterior of utility			
storage shed inspected for			
damage & secure with locks	V	ļ	Yes
Fire extinguisher serviceable,	1		
inspected, and inspection			
recorded	V	<u> </u>	Yes
Spill control material inspected &			
adequate	V	<u> </u>	Yes
PPE available and utilized as			N -
required	V	1	162
Emergency contact information			
posted within shed	V		yes
Additional romarks (use senarate s	hoot	ic ro	auired)

PUMARS TAUK Full 4-17-16 TREATED FE - PH ADTUSTED	
SITO Reya Mauro 4-8-16, 7-7-16,	
20 000 grallour Lowelfistic stripped To POTIU city of AUBURN	
7-B-110	

Site Inspection Checklist (v2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 8-3-16

Time______6:40

Field Technician MARTIN Koenneck

Weather Conditions Sunny 65°

	Che	eck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	V		None VISABLE
Land cap irregularities (note anomaly)	V		оК
French drainage system clear and function able	V		oK
Concrete trough clear and function able	V		OK
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"	V		Xes
Discharge Pump inspected & operational	V		BUMPED PUMP OVER
Discharge pump oll level verified prior to use.	V		oK
Discharge pump drained of residual water (drained upon completion of monthly discharge)	V		NA
Heat trace system operational & verified in the "ON" position (Applicable Oct - May)	V		off
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	V		x,A
Leachate Collection System	·		/ ¥ ¥ 1
Leachate holding tank visually inspected for structural integrity	1		ot

8-	-3-1	16
Leachate holding tank metal roof	i	
inspected for structural integrity	V	OK
Leachate tank access doors		
locked (post pump out)	V	Yes
Pump power panel(s) secured	r	Yes
Monitoring Wells (MW)		
Locks installed	ert	Yes
MW's marked & identifiable	V	Yes
General Site Condition		·
Trees & brush cleared off security		
fence	V	WORK IN PROGRESS
Perimeter security fence intact &		
free of damage	V	OK
Site access driveway inspected &		
free on snow & damage	V	oK
Security access gates / Padlock &		
chain serviceable	V	Yes
Site gate signage intact	V	Yes
Interior & exterior of utility		
storage shed inspected for		
damage & secure with locks	V	Yes - OK
Fire extinguisher serviceable,		
inspected, and inspection		
recorded	V	Yes
Spill control material inspected &		
adequate	V	yes
PPE available and utilized as		
required		Ye5
Emergency contact information		
posted within shed	V	Yes
Additional remarks (use separate sl	neeti	is required)
8-2-16 - QUARTERLY Well	Le	vel READINGS, PUMPED LENCHARTE TO
HODING TANK AND ADT PH	Ι	

8-3-16 20,000 gol Levellote SENT TO POTU CITY of AUBURN

Site Inspection Checklist (v2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 9-14-16

Time 630

Field Technician MARTIN Koennucky

Weather Conditions OVERCHST 68°

Check \mathbf{V} (tasks completed in each event) **Inspection Features** Remarks (indicate accomplishment of each maintenance task) Monthly Quarterly Land Cap \mathbf{v} NONE VISABLE Signs of burrowing vermin Land cap irregularities (note \checkmark οK anomaly) French drainage system clear and V OK function able Concrete trough clear and OK function able V Leachate Discharge System City of Oswego sanitary discharge valve positioned "Open" NA Discharge Pump inspected & BUMPED PUMP OVER V operational Discharge pump oil level verified ÔΚ. V prior to use. Discharge pump drained of residual water (drained upon completion of monthly discharge) V NA Heat trace system operational & verified in the "ON" position Off $\sqrt{}$ (Applicable Oct - May) Flow totalizer operational. Flow readings recorded onto NA "Leachate Discharge Form" \mathbf{v} Leachate Collection System Leachate holding tank visually FRONT PLYWOOD DECAYING $\sqrt{}$ inspected for structural integrity

	9-	14-16
Leachate holding tank metal roof		
inspected for structural integrity	1	OK
Leachate tank access doors		
locked (post pump out)	\vee	Yes
Pump power panel(s) secured	レ	Yes
Monitoring Wells (MW)		
Locks installed	V	Yes
MW's marked & identifiable	V	OK
General Site Condition		
Trees & brush cleared off security		
fence	V	WORK IN PROGRESS
Perimeter security fence intact &		
free of damage	v	Yes
Site access driveway inspected &		
free on snow & damage	V	OK
Security access gates / Padlock &		
chain serviceable	V	Yes
Site gate signage intact	V	Yes
Interior & exterior of utility		
storage shed inspected for	.	
damage & secure with locks	v	OK
Fire extinguisher serviceable,	l	
inspected, and inspection	. /	Vac.
recorded		145
Spill control material inspected &		Vac
adequate		162
PPE available and utilized as	./	yac .
required		/ / / / / / / / / / / / / / / / / / / /
Emergency contact information		Yac
posted within sited		

Auditorial remarks (use separate sheet is required)								
PUMA	AND	ADT. I	74 for	20,000	quellous	Lencthy	te	
FOR P	OTW C	ity of	AUBURN		Col	Ketted	LEACHATE	
4th QUARTER	Sample	SFOR AUB	URN POTH	Perni	Γ			

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PAS Site

Oswego, New York

Leachate Disposal Checklist

Project Personnel:	ARTIN KOENNake	Time on-site:	Mioo Arm
Transportation Subcontractor:	NA		
Leachate Destination:	NA		
Date: <u>7-7-110</u>	· · · · · · · · · · · · · · · · · · ·		

Well	Leachate Co Pum	llection Well ping	Well Pump An	ng Flow Rate dyses	Flow Rate	Remarks	
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	7:15	8:45			12268m	10,980 GAC	
LCW-2	17:15	8:45					
LCW-3	7:15	7:30					
LCW-4	7:15	8:45					
Leachate Holding Tank: START 12" STOP 4/8"							
Initial Flow Meter Reading: $3l_0'' \times 305 = 10.98$				0,980 - 90	MW = 1221	spin	
Final Flow Me	eter Reading:			/			

FE-+20 Mgl Temp-54°, PH 6.8 ADDED 25/165 CAUSTIL

	(Pre	-Loading) Fanker	(Po	ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						
Load #2						
Load #3						
Load #4						·····



Leachate Disposal Checklist

Project Personnel: MARTin K	<u>vernecki</u> Time o	on-site: <u>6.45</u>
Transportation Subcontractor: SUN EN	VIRCMEMAL CONPI	
Leachate Destination: <u>POTW City</u>	of AUBLINN	
Date: <u>7-13-16</u>		

XX7-11	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate	Remarks	
w en	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	-	
LCW-1	9:00	10:00	60 MIN		139 6PM	8,385	
LCW-2	9:00	10:00					
LCW-3	9:00	9:15					
LCW-4	9:00	10:00					
Leachate Hold	ling Tank: 7	" START	STOP -	34,5			
Initial Flow M	leter Reading:						
Final Flow M	eter Reading:						

711-690 25 lbs CAUSTIN ADDED

T. J	(Pre-Loading) Tanker		(Po	(Post-Loading) Tanker		Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	-
Load #1	7:00	Yes	8:10	52″	011316#1	8,000
Load #2	4:15	Yes	8;55	6)"	071316 #2	5,000
Load #3	10:55	Ýes	11:55	45 "	071316-3	4,000
Load #4)

1 ST TANK - PH 7.8, FE- 3.0, Temp 58°

2ND TANK - PH 7.6 FE 2.8, Temp 54°



Leachate Disposal Checklist

Project Personnel: <u>MARTIN KOENNECKE</u>	Time on-site:	9:30
Transportation Subcontractor: <u><i>NA</i></u>		
Leachate Destination: NA		
Date: 8-2-16		

XX7.37	Leachate Collection Well Pumping		Well Pump An	ing Flow Rate alyses	Flow Rate	Remarks
wen	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	10:25	12:05		37 x 305=	11,285 - 90.	114= 125 GPM
LCW-2	10:25	12:05			-	· · · · · · · · · · · · · · · · · · ·
LCW-3	10:25	10:30				
LCW-4	10:25	12:05				
Leachate Hold	ling Tank: 1 a	7,5 STAR	T	• • • • • • • • • • • • • • • • • • •		
Initial Flow M	leter Reading:	49,5 STO	P			
Final Flow Me	eter Reading:					

PH 6.8 FE +20 Temp -55°

ADDED 3016 SASTIC SODA

	(Pre-Loading) Tanker		(P	(Post-Loading) Tanker		Remarks
Load .	Time	Confirmed Clean	Time Tanker Volume (by Strick Mass)		Manifest	
Load #1						
Load #2						
Load #3						
Load #4						



Leachate Disposal Checklist

Project Personnel: MARTINKO Connecto	Time on-site:	6:40
Transportation Subcontractor: SUN ENVIRMMENT CORP.		
Leachate Destination: POTIN City of AVBURIN		
Date: $8 - 3 - 1/\rho$		

Well	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate	Remarks	
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	8:50	10:50		26"5 ×30	5 = 8082-1	20 min = 6769	m
LCW-2	8:50	10:50					•
LCW- ş	N/A						
LCW-4	8:50	10:50					
Leachate Hold	ing Tank:	11,5 START	- ST	P-38"			
Initial Flow M	eter Reading:						
Final Flow Me	eter Reading:			-			

	(Pre-Loading) Tanker		Ore-Loading)(Post-Loading)TankerTanker		Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	ъ. 1
Load #1	7:00	Yes	8:05	52"	080316-1	8,000
Load #2	8:20	Yes	850	73 "	080316-2	3,600
Load #3	11:05	Yes	11:50	39"	080316-3	6.000
Load #4	11155	Yes	12:20	50"	080316-4	2580

FIRST TANK- PH 6.8 FE +20 Temp 549 PRE TREATMENT After CAUSTIC ADDISTION - PH- 7.8, FE 202 Temp - 58"

SECOND TANK - PH-619 FE +20 Temp 54° - PRE TREATMENT After CAUSTIC SODA - PH-7.6 Temp 54° - FE 3.0

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Leachate Disposal Checklist

Project Personnel:	RTIN Koenwecke	Time on-site:	630
Transportation Subcontractor:	SUN ENVIRONMENT FIL		
Leachate Destination:	POTW CITY of AUBURN		
Date: <u>9-14-16</u>	·		

TT7 11	Leachate Collection Well Pumping		Well Pumping Flow Rate Analyses		Flow Rate	Remarks
weii	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	8:50	10:25	95 MIN .	8,235 col	= 86.5 GPn	
LCW-2	8:50	10:25				
LCW-2	NOT Pump	en —				
LCW-4	8:50	10:25				
Leachate Hold	ling Tank: /'	4" STIART				
Initial Flow M	leter Reading:	41" STOP				
Final Flow Me	eter Reading	69 ADDED	2016- CA	STU SODARL	4 b C	

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137	TANK	- Temp	-60^{-1}	FE-3,01	171-1103
. สถ	- and	- Tani	540	EE 3.2	PH - 7.90

··	(Pre-Loading) Tanker		(Po	ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	TimeTanker VolumeM(by Strick Mass)		
Load #1	7:15	Ves	8:20	52"	091416=1	8,000
Load #2	8:25	Yes	8:45	5.0"	091416-2	2500
Load #3	11:20	Yes	11:45	50"	091416-3	2500
Load #4	11:50	yes.	12:50	45"	091416-4	7,000

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Leachate Disposal Checklist

Project Personnel:	MARTIN KORNWECKE	Time on-site:	50:00
Transportation Subcontractor:	NA	·	
Leachate Destination:	NA	<u></u>	
Date: <u>9-9-16</u>			

TT7_11	Leachate Co Pum	llection Well ping	Well Pumpir Anal	ng Flow Rate lyses	Flow Rate	Remarks
vy en	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	10:00	11:35	959 MM	v, = 36"=	10,980-184	5 (10,980)
LCW-2	10:00	11:35				
LCW-3	10:00	10:15				
LCW-4	10:00	11:35				
Leachate Hold	ling Tank: ゔ	TART- 12"	ADD	ED ZOIL	<u>s caustics</u>	ODA BEADS
Initial Flow M	leter Reading:	STOP 48	TEM	0-54°, F	E-+2010My	74.6.8
Final Flow Me	eter Reading:		1		//	

	(Pre	-Loading) Fanker	(P)	ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						
Load #2			-			
Load #3			-			
Load #4						

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SUBJECT:			PAGE: I	BY: DATE:	JOB NUM	BER:		
This Memo	orandu	Im is an acknowledgment that a Bill of Lading has be Bill of Lading, nor a copy or duplicate, covering the intended solely for filling or record.	- Ban Issued and Is not property named hereb	Original a, and is	Shipper No. <u>0713/6-</u> Carrier No. <u>7A.700</u>			
ugo •		(Nan	ie of carrier)	(SCAC)	Date _	1-1-2-	/6	
Collect on Delivery shipm O:	enis, the fettors	"COD" must oppear belare consigned's name or as albervice provided in item 430, Sec	Shipper	DeMaximis, 702 Fort Sea	Ins: men Strapt	<u></u>		
reet <u>s</u> å	- Bra l		<u>Street</u>	ing energy Iswerg	State NV	Zip Cod	e	
<u>v A</u>	arganesarg	State 76157 Zip Code 83	h 4 A 1 24 hr. Emergency	Contact Tel. No	<u>. 718 6905</u>	й 		
oute					Vehicle Numbe	e >r		
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Cl	ass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gelions, etc.)	WEIGHT ~{Subject to Correction}	RATE	CHARGES (For Danie Use Only)	
<u>1-TT</u>		Nen-RCRA, Non-DOT Regulat	ed Láquids	3000	G			
<u></u>		La Adarance vi nice J			•	$\left - \right $		
	-	JOB# 0B4:C-305#			····	┼╍╌╂		
		Load #1						
		52"						
PLACA te (1) Where the ta collocally in writing the s read or declared value of	RDS TE in is depende gread or deck the property i	NDERED: YES NO FA int on value, shippers are required to state ared value of the property, as follows: The shareby specifically stated by the shippert to described above by the proper billy	film atory pping		C00.1			
tot exceeding Where the applicable tai slease or a value decli occriter's llability or decli vided by such provisions Commodilles regulding s	if provisions as aration by the are a value, the See NMFC its special or addi	car	aged, d are patter subject to Socilor 7 to consignes without reco antal United Subject to Socilor 7 to consignes without reco	Amt: \$ of the conditions, if this shipment is to b unse on the consignor, the consigner it make delivery of this shipment with the constant of the shipment with	e dasymed to the TOTAL or shall sign the CHARG	ES S	/ E8	
st be so marked and pat n 360, Bills of Lading, F Contract Terms and Co RECE	sight Bills and nditions for a D INEO, subject to	Signa transformum, see section 2(4) of a section	theight ent au owner take	(Signature of Consignor) (Signature of Consignor) o each party at any time interasted in ander shell be subject to all the bill of fe	FREIGHT F scopt whe ight is cited all or any eaid property, that a idno terms and conditions in the	REPAID Check a box at ked Wary service to COverning class	k box II charge3 are to be collect	
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ER Mu	the k	infil	PER DATE	tenir st	the lan			
ermanent post-olfi	ce address	of shipper.	STYLE P370-	4 ©2012 LABELMASTER®) (800) 621-5808 www.	abelmaster.co	m	
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ATTENTION	I SHIPF	PERSI FREIGHT	CHARGES ARE PREPAID ON	THIS BILL O	F LADING UNLES	S MARKED	COLLECT.			
This Mem	orand	um is an acknowledgm Bill of Lading, nor a	ent that a Bill of Lading has been is copy or duplicate, covering the prope filling or record	sued and is no orty named here	t Original In, and is	S	hipper No	071311-2		
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Page	of	- A -	(Name of carrier)	261 WIE 1855 17	(SCAC)	<u> </u>	Date _	7/13/100		
On Collect on Delivery ship	omente, the lette	ara "COD" musi appear before consignes"	e name or as otherwise provided in item 430, Sec.1.	FROM:	DeMa	rimis. İr	RC.			
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Consignee	* * \$20 2.74	2		Street						
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Route							Vehicle Number	7 38 12.44		
No. of Units & Container Type	НМ	UN or NA Number, Prop	BASIC DESCRIPTION er Shipping Name, Hezard Class, Pac	oking Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEI (Subj Corre	GHT act to RA ction)	TE (For Carrier Use Only)		
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Note (1) Where the rate specifically in writing the ag	is dependent or read or declare	n value, shippers are required to state I value of the property, as follows: "The	I hereby declare that the contents of this consignment are fully and accurately	ADDRESS		1	COD FEE	·····		
agreed or declared value of to be not exceeding (2) Where the applicable ta	l the property is	hereby specifically stated by the shipper per recify a limitation of the carrier's liability	and are classified, packed, marked and labelled/placarded, and are in all respects in	COD	Amt: \$			\$		
absent a release or a value release the carrier's liability	declaration by or declare a val	he shipper and the shipper does not iue, the carrier's liability shall be limited to	proper condition for transport according to applicable international and national governmental regulations.	Subject to Sect delivered to the co	ion 7 of the conditions, if this naignee without recourse on	shipment is to be the consignor, the	TOTAL	×		
 (a) Commodities regulting stowing must be so market 	special or addit d and packaged	onal care or attention in handling or l as to ensure sale transportation. See		The carifer signation of the carifer signature	all not make delivery of this and ell other lawfut charges.	shipment without	FREI FREIGHT PRE	GHT CHARGES		
Section 2(e) of item 360, B and Section 1(a) of the Co	lills of Lading, F ntract Terms en	reight Bills and Statements of Charges d Conditions for a list of such articles.	Signature		(Signature of Consignor)		except when bo right is checked	i collect		
RECEIVEI described abi marked, cons lhis contract a its usual plac destination. It	D, subject to the ove in apparent igned, and dest as meaning any e of delivery at a is mutuelly agre	classifications and latities in offect on the data good order, except as noted (contents and nad as indicated above which said carter person or corporation in possession of the laid designation, il on its acute, cherwise to used as to each carrier of all or any of, said p	of the issue of this Bill of Lading, the property condition of contents of packages unknown), the word carrier baing understood throughtout property under the contract) agrees to carry to deliver to another carrier on the route to said reperty over sill or any portion of said doute to	destination and heretsdar shall shipment. Shipper here the said terms a	as to each party at any time int be subject to elt be bill of ladir by certifies that he is familler wit nd conditions are hareby agread	erested in all or any a g terms and condition n all the fading terms to by the shipper and	ald property, that even ns in the governing de and conditions in the go accepted for himself ar	/ service to be performed sslikeation on the date of werning classification and id his assigns.		
SHIPPER	DeMs	minis Inc.		CARRIEF	Sun I	11 vít (vələ)	vental Co			
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r		, "		DATE				-		
Permanent post-office	address of	shipper.	SAUGA ETALGERMA	F	STYLE CF370-4 ©2	012 LABEL	ASTER® (800) 6	21-5808 www.labelmaster.cor		
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SUBJECT:		· · · · · · · · · · · · · · · · · · ·	PAGE:	BY:	DATE:	JOB 1	NUMBER	:	
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his Memorandu	Is an acknowledgment to Bill of Lading, nor a copy	nat a Bill of Lading has been or duplicate, covering the pro	issued and is perty named he	not Original erein, and is		Shipper	No. <u> </u>	713	16-3
a 20.	intended solely for filing	or record.				Carrier	No	<u> </u>	709
age [‡] of		Name of	<u>carrier)</u> carrier)		(SCAC)	·	Date	2.1.3	-/6
n Collect on Delivery shipments, the feiters *	COD" must appear before consignee's name or	as olherwise provided in Item 430, Sec.1.	FROM: Shipper	De	Marímis, i	¥124: '		1. <u>.</u> .	
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oute							Vehicle Number		
No. of Units & Container Type	E UN or NA Number, Proper	ASIC DESCRIPTION Shipping Name, Hazard Class,	, Packing Group	, т(TAL QUANTITY Weight, Volume, Gallons, etc.)	WEIG (Subjec Correct	HT ct to tion)	RATE	CHARGES (For Carrier Use Only)
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			REMIT		····				
PLACARUS IEM ne - (1) Where the rate is dependent actically in writing the agreed or declar	ton value, shippers are required to state rad value of the property, as follows: "The berefur grave finally asled by the shipper to	I hareby dectare that the contents of this consignment are fully and accurately described show by the proper shipping	C.O.D. TO: ADDRESS	<u>. </u>			C,O,D, FEE		
not exceeding provisions and Where the applicable tariff provisions appreciation by the	er acity a limitation of the carrier's liability absent shipper and the shipper does not release	name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for	COD Bublect to Sactk	in 7 of the condition	Amt: \$	a delivered to the	PREPAID COLLECT	□ \$_	
> cartier's liability or declare a value, the ovided by such provisions. See NMFC iter) Commodilies requiring special or additi- uet be so marked and packaged as to an	canter's hadney shah be inhado to the scent n 172. onal care or attention in handling or stowing sure safe transportation. See Section 2(e) of Characteristics of Character and Section 2(e) of	international and national governmental regulations.	consignee without following statement: The carrier sha freight and all othe	racourse on the all not make delive r lawful charges.	consignor, the consigno ary of this shipment with	r shall sign the hout payment of	CHARGES FREIGH FREIGHT PREP	\$ IT CHARI AID Che	365 ok box if charges
Contract Terms and Conditions for a lis RECEIVED, subject to	to fouch articles.	of the issue of this Bill of Lading.	tínation and	(Signature as to each party a	el Consignar) It any lime interested in	all or any said pro	right is checked party, that even	/ service to	collect
Iha property described tents of packages unk (Iha word carrier being possession of line prop nation, if on lite rube, o ally acread as to each	above in apparent good order, except as noted newn), marked, consigned, and destined as ind y understood throughout this contract as mean enty under the contract) agress to carry to its usu- therwise to deliver to another carrier on the rout carrier of all or any of, said property over all or i	(contents and condition of con- licated above which said carrier g any person or corporation in al place of delivery at said desil- e to said destination. It is motu- any portion of said roule to des-	te patforme silication on Shippi governing c accepted fo	d hereunder shall be i the date of shipm ar hereby certilies lassification and th ir himself and his a	estoject to all the bill of tai ent. that he is familiar with a said terms and conditi ssigns.	ang termis and cond a ali the lading ter lons are hereby ag	rms and condil pread to by the s	eming clas- lons in the hipper and	
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· · · ·	/ * 1/ [*] 147	<u> </u>	DATE		10 100 20	·			×ů.
³ ermanent post-office address o	of shipper.	SOY JAK	STYLE F	370-4 ©2012	LABEL MASTER®	(800) 621-580	08 www.labe	imaster.c	:0m
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			NOT NEGOTIABLE	NING	Shippe	er No. 🤇	<u>780</u>	<u>3/6 - /</u>
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On Collect on Dolivery shipme	nis, the letter:	s "COD" must appear befare consigned's name or as otherwise provided in Item 430. Se	na.1. FROM: Shipper	DeMaximis,	Enc	*************	ana ang ang ang ang ang ang ang ang ang	and a subsection of the second se
TO: Consignee TS	ater I	Pollution Control Plant	Street	703 East Sea	enca St	rcot		
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Shipper No. 080316 910

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nsignee Water Pallintian Conteral Plant	703 East Schence Street
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Contract Terms and Conditions for a list of such articles. Signatu RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,	(Signature et Consignar) (Signature
the property described shows in apparent good order, except as noted (contents and condition of con- tents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understond throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual glace of delivery at said desti- nation, it on its route, otherwise to deliver to another carrier on the route to said destinato. It is mutu- ally agreed as to each carrier of all or any of, said property over all or any protion of said route to des-	be performed have under shall be subject to all the bill of lading terms and conditions in the governing clas- stification on the date of shipmont. Shipper hereby contifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his designs.
IIPPER Našćavimic inc	CARRIER Sun Environmental Corp.
A Marth Kolmonte	PER Min
· · · · ·	DATE 9-14-16
	STVI E E370.4 @ 2012 LABEL MASTER @ (800) 621-5808 www.labelmaster.com
Imanent post-office address of shipper.	

ATTACHMENT A-3

QUARTERLY POTW DISCHARGE REPORTS 3RD QUARTER 2016



de maximis, inc.

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

August 30, 2016

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

Re: 3rd Quarter PAS Oswego Discharge Report 2016

Dear Mr. O'Brien,

This quarterly report is submitted in accordance with the City of Auburn Wastewater Discharge Permit 2014-01 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Auburn Wastewater Treatment Facility. This report covers the reporting period from June 2016 through August 2016.

Leachate was transported to the Auburn Public Operated Treatment Plant (POTW) on June 15, 2016, July 13, 2016 and August 3, 2016. A total of 60,130 gallons of leachate were transported to the City of Auburn during the quarter. The total number of gallons of leachate discharged during each month of the quarter is summarized in Table 1. The Leachate Discharge Form documenting the leachate pumping process and completed bills of lading providing the quantities shipped during each discharge event are included in Attachment I. The discharge quantities, as well as date of each discharge event are provided on the bills of lading. Measurements for pH and temperature during the removal event are also recorded on the discharge forms. The PAS discharge was sampled for the pretreatment criteria by OBG on June 15, 2016. These results are provided on Table 1 with copies of the lab reports provided in Attachment II.

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

Sincerely, de maximis, inc.

Clay Mellamon

Clay McClarnon

Attachment

CMC/akw

cc: PAS Management Committee

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PAPER

IABLE 1 - PAS OSWEGO SILE QUARTERLY REPORT FOR City of Auburn (2016) LEACHATE DISCHARGE TO City of Auburn WASTEWATER TREATMENT FACILITY (Auburn Wastwater Discharge Permit No.2014-01)

Discharge Quarter		4Q 2015		1Q 2016		2Q 2	016	3Q 2016		
		Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	
		9/9/15	20,700	12/9/15	10,000	3/9/16	10,000	6/15/16	20,000	
				48/6.8		46/8.0		54/6.8		
		10/7/15	20,000	1/6/16	10,000	4/6/16	10,000	7/13/16	20,000	
		52/7.8		44/7.9		46/7.6		53/6.8		
		11/4/15	10,100	2/3/16	10,000	5/4/16	20,000	8/3/16	20,130	
		50/8.4		54/8.2		48/7.8		54/6.8		
Total Discharged			50,800		30,000		40,000		60,130	
Date Sampled*	Limit*		9/9/2015		12/9/15 & 1/6/2016 **		3/9/2016		6/15/2016	
Analytes	mg/L		mg/L		mg/L		mg/L		mg/L	
Antinomy Arsenic Barlum Cadmium Chromium (Her)	2 5		0.016 0.32		0.019 / 0.018 0.13 / 0.35		0.015 0.19		0.011 0.22	
Chromium (total) Copper Iron Lead	2 1.5 10 2		ND <0.010 0.016 6.5 ND <0.010		0.016 / 0.012 0.024 / 0.033 1.9 / 6.8 ND / ND <0.01		ND <0.01 0.037 2.2 ND <0.01		0.015 0.012 2.9 ND <0.01	
Mercury Nickel Phosporus Selenium Silver	5 10		0.4 ND<0.20		0.51 / 0.45 ND / ND <0.2		0.39 ND <0.2		0.36 ND <0.2	
Zinc Cyanide	5 1		ND<0.020 ND <0.010		0.053 / 0.084 ND / ND < 0.01		0.035 ND < 0.01		ND<0.020 ND < 0.01	
MaCl	mg/L		mg/L		mg/L	·	mg/L			
TCE 1,2 DCE Phenolics	3 3 10		0.00215 0.149 0.16		0.012 / 0.001 0.091 / 0.12 0.13 / 0.11		0.00274 0.0652 0.13		0.00638 0.0652 0.16	
Toluene TKN	5 40		0.0408 71 / 31 ***		0.017 / 0.023 30 / 26		0.00854 39		0.00294 39	
TSS BOD 5	350 300		15 19		60 /20 6.5 / 13		8 17		5 11	

* Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.2014-01.

** Sampled by City of Auburn

Analyte values in bold exceed limit

*** sample taken for TKN on 10/7/2015 was 31 mg/L (below the Table A limit of 40mg/L)

ATTACHMENT I



Leachate Disposal Checklist

Project Personnel:	MARTIN Koenweike	Time on-site:	10:00	
Transportation Subcontra	ictor: NA			
Leachate Destination:	NA			
Date: 6-7-10	l			

¥\$7.11	Leachate Collection Well Pumping		Well Pumpi Ana	ng Flow Rate dyses	Flow Rate	Remarks		
vy eli	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation			
LCW-1	10:00	11 30			123,6	11,132,5		
LCW-2	10:00	11:30						
LCW-3	10:00	10:15						
LCW-4	10.00	j1:30						
Leachate Hold	ling Tank: 57	TACT 11.5	" 51	TOP 48				
Initial Flow Meter Reading: Pumper 36.5"×305 = 11,132.5 : 90 Min = 123.4								
Final Flow Me	eter Reading:	ADDED	30 lbs 6	AUSTIC SODE	4- Benos			

PH- 6,8 FE tao, Temp 54° ADDID 30165 CHARTIN SODA

· · · · · · · · · · · · · · · ·	(Pre-Loading) Tanker		(P	ost-Loading) Tanker	Destination	Remarks	
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest		
Load #1							
Load #2							
Load #3							
Load #4							

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Leachate Disposal Checklist

MARTIN Kognnecke Time on-site: 6:30 Project Personnel: Transportation Subcontractor: <u>SUN ENVRIREMENTE ZIC</u> Leachate Destination: POTLU CITY of AUBRIEN Date: 8-15-16

	Leachate Co Pun	ollection Well aping	Well Pu	mping Flow Rate Analyses	Flow Rate	Remarks
Well	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1 9:55 /		10:55	60	met	139.4	8,387,5
LCW-2	9:55	10:55				
LCW-3	NH	, <u></u>				
LCW-4	9:55	10:55				
Leachate Hold	ling Tank:	48" - PH	7.8	FE-1.4 T	mp 540 (FIRST TALK
Initial Flow M	leter Reading:	START 5.	5",5	Top - 33" , 900	DED 27,5"	
Final Flow Me	eter Reading:	ADDED	20 16s	CASTIC SUDA	<u>-</u>	
PH 6.8	, FE +20	, Temp 53	• / F	H. 7.6, FE	and, Tem	econs TANK) 1540
	(Pre-L Tai	oading) nker	(Po	st-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1	7:20	445	8:30	52"	061516-1	8,000 gal
Load #2	9:05	Yes	950	41	061516-2	5,000 gel
Load #3	13:00	Yes	13 \$ 35	45 11	061516-3	17,000 gul
Load #4						



SUBJECT:	PAGE:	BY:	DATE:	JOB NUMBER:

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Street <u>35 Barnel</u>	ley Street		City ()s	WCE0	State	ېږې Zip Co	ie
CityAgharm	State 192	Zip Code 130/	2 24 hr. Emergency Con	itaci Tel. No	218.600	£	
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cally in writing the agreed or declared v d or declared value of the property is hore exceeding per	value of the property, as follows: "The by specifically stated by the shipper to	consignment are fully and accurately described above by the proper shipping name and are classified, packaged,	COD	Am	t: \$	C.O.D. PREP/ COLLE	FEE: ND D CT D \$	
tore the applicable tariff provisions specify in ase or a value declaration by the ship: artier's tiability or declare a value, the card	a transition of the carter's natural absence per and the shipper does not release era liability shall be finited to the extern 2.	In all respects in proper condition for transport according to epplicable international and national governmental	Subject to Section consignee without informing statement:	n 7 of the conditions, i recourse on the cons	uis shipment is to be Ignor, the consignat	delivered to the TOTAL r shall algn the CHARC	155 \$	
an modifies requiring special or additional immodifies requiring special or additional be so marked and packaged as to ensure also, Bale of Lading, Freight Bills and Stat	care or attention in handling or stowing sale transponation. See Section 2(e) of ements of Charges and Bacilon 1(a) of	regulations.	The curler the freight and all other	li aat make delivery a lewiul charges.	i this shipmant with	FREIGHT except with a chilling of the second s	ELGIRT CHAR PREPAID Ch Motox at Motox at	3ES ck box if charges are to be collect
ntraci Terms and Conditions for a list of a RECEIVED, subject to the the groperty described abo- tents of packages unknown (the word cardier boing such nassestor of the property i	such annouse. Assimications and tarifis in effect on the date ve in apparent good order, except as noted by, marked, consigned, and desilted as iox ferstood throughout this contract as mean inder the contract) agrees to carry to its us	of the issue of the Bit of Lading, (contents and condition of con- icated above which said camer ing any person or composition in a piece of delivery at said des3-	tination and beperformed affication on Shippe governing c	es to each party at an i hersunder shall be aut the date of shipment. In heraby certifies that assification and the se	y lime interested in a ject to all the bill of law t he is familiar with kid terms and conditi	all or any said property, the ding terms and conditions in it is at the lading terms and ions are heroby agreed to b	t every service to tegoverning clas- conditions in the y the shipper and	
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rmanent post-office address of si	hipper.		STYLE F	370-4 ©2012 1.	ABELMASTER ®	(800) 621-5808 www	w.labalmaster.	com
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SUBJECT:				PAGE:	BY:	DATE:	JOB NU	MBER:	
'hie Mom-	rand	le an acknowledgmeni	t that a Bill of Ladino has here	 Issued and is	not Ori		Shinner Mc	Ohis	16-2
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		· · · · · · · · · · · · · · · · · · ·	(Name d	f carrier)	-	(SCAC)	Dat	e <u>6-/5</u>	-16
Collect on Delivery shipme	inte, the lette	va "COO" mual appear before consignes's name (or as olherwise provided in Item 430, Sec.1.	FROM: Shipper		DeMazimis,	Ínc		
nsignee 📢	1-34-92	Pollution Control Fl	1121 <u>†</u>	Street		703 East Sen	encs Stree	1	·······
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ute		······································	· · · · · · · · · · · · · · · · · · ·	L			Vet	licte	· · · · ·
No. of Units Container Type	ΗМ	UN of NA Number, Proper	BASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group		TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Cerrier Use Only)
1.17		Non-RCRA, N {Leochate Wat	on-DOT Regulated Liquids ter)			50r 0	Ģ	·	
		JOB# OB&G.000	61"						
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PLACAR	DS TE	VOERED: YES 🖂 NO 🗂	<u>.</u>	REMIT					
- (1) Where the rate is fically in whiting the agre of or declared value of the it exceeding here the applicable tariff p	is dependent and or declar e property is provisions ap thou by the	nt on value, shippers are required to date used value of the property, as fallows: The hardwy specifically elated by the shipper to error alimitation of the canter elability absent shipper and the shipper force on telease	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and tabelled/placarded, and are and the shipping the factors.	COD		Ami: \$	Ç.O. PRE COL	D. FEE: Paid d Lect d s	
andor's liability or declare ded by such provisions. Se commodifies requiring spa to so marked and packa 360, Birs of Lading, Fraig contract Yerms and Conditi	a value, the se NMFC its icial or addit ged as to en ght Bills and fions for a its	carriers lisbility shall be impled to the extent m 172. I conal care or attention in handling or stowing sure sale transportation. See Spellon 2(a) of Statements of Charges and Section 1(a) of t of such anticles.	in an logated in phope for applicable international and national governmental regulations.	Subject b Section 7 of the conditions, if the subject to the determined to the COTAL consigner without recourse on the consignor, the consigner shell sign the CHAR The cardior shell not make delivery of this subject without payment of FREIGH relight and all other lawflot charges.			IL RGES \$ REIGHT CHARGES HTPREPAID Chock box if charges when box at the set to be		
RECEIVE tha proper tents of pr (the word possession nation, if c ally agreed	ED, subject to ity described ackages unk camer being n of the prop on its route, o d as to each	the classifications and tarifis in effect on the date labove in apparent/good order, except as noted norm), marked, consigned, and destined as hed understood throughout this contract as mean effy under the contract garees to carry to its usual informats to defaver to another control on the usual carries of all or envy of, said proparty over ell or o	of the issue of this Gill of Lading, (content)s and condition of con- licited above which stild confer ing any person or corporation in al place of delivery at stild desil- e to seld desiration. It ig multu- any portions of said route to des-	tination and as be partormed to silication on th Shipper governing clas accepted for h	to each p vreutider s o date of e loreby ce allication a mosti and	party at any time interested in all half be subject to all the bill of ladin subject. rulides that he is familitar with a and the said terms and condition his assigns.	or any said property, if g lerms and conditions in II the lading terms and s are hereby agreed to	hat every service to the governing class d conditions in the by the shipper and	
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(1] 63	<u>~~ 1</u>		<u></u>	DATE /	7.2.	and the second s			
rmanent post-office (address (of shipper,	ÓFTE.	STYLE Fard	-4 © 20	012 LABEL MASTER® (8	300) 821-5808 wy	w.labelmaster.co	
			ъ.						



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel: MARTIN Koe	nnake.	Time on-site:	Mion Arm
Transportation Subcontractor: <u>NA</u>			
Leachate Destination: <u>NA</u>			
Date:7_7_/(0			

337-17	Leachate Co Pum	llection Well ping	Well Pump An	ing Flow Rate alyses	Flow Rate	Remarks		
wen	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation			
LCW-I	7:15	8:45	······································		122690	10,980 (540		
LCW-2	7:15	8:45						
LCW-3	7:15	7:30						
LCW-4	7:15	8:45						
Leachate Hold	ling Tank:	START 13"	STOP	48''				
Initial Flow M	leter Reading:	36	"x305 = ,	10,980 = 90	MW = 1220	SPIR		
Final Flow M	eter Reading:			1	•			

FE-+20 AND TEMP-54°, PH 6.8 ADDED 25165 CANSTIC

r	(Pre-Loading) Tanker			ost-Loading) Tanker	Destination	Remarks
Toad	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						
Load #2						
Load #3	1					
Load #4						



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel: MARTIN Keenwerki	Time on-site:	6:45
Transportation Subcontractor: <u>SUN Environment Caspi</u>		
Leachate Destination: <u>POTW City of Auburn</u>		
Date: <u>7-13-16</u>		

Well	Leachate Co Pum	llection Well ping	Well Pumpi Ana	ng Flow Rate lyses	Flow Rate	Remarks	
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-I	9:00	10:00	60 min		139 6811	8,285	
LCW-2	9:00	10:00	· · · · · · · · · · · · · · · · · · ·				
LCW-3	9:00	9:15					
LCW-4	9:00	10:00					
Leachate Hold	ling Tank: 7	"sTART	STOP-3	34.5	1		
Initial Flow M	leter Reading:						
Final Flow M	eter Reading:			<u> </u>			

PH-6,90 ADDED 25 1bs CAUSTIC

Toád	(Pre	-Loading) Fanker	(Po	ost-Loading) Tanker	Destination	Remarks
LUXU	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1	7:00	Yes	8:10	52"	071316#1	8,000
Load #2	4:15	کردی	8;55	61 "	071316 #2	5.000
Load #3	10:55	Ýes	11:55	45 "	071316-3	1,000
Load #4				······································		· · · · · · · · · · · · · · · · · · ·

1 ST TANK - PH 7.8, FE- 3.0, Temp 58°

2ND TANK - PH 7.6 FE 2.8, Temp 54°



SUBJEC1:			PAG	E: BY:	DATE:	JOB NUM	BER:	
This Memo	orandu	 is an acknowledgment that a Bill Bill of Lading, nor a copy or duplic Intended solely for filling or record 	of Lacing has been issued and ate, covering the property name d.	l is not Original d herein, and is	si	alpper No. <u>_</u> : :arrier No	27 <u>13/</u> 74	6-1 -700
Page ¹ c	of	§r	Name of carrier)	<u>. 08 p</u>	icac)	Data	7.13-	16
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Consignee 👬	<u>atar D</u> i	Mution Control Plant	Street_	703 E:	asi Senence	Street		
Street 34	<u>Bandi</u>	ty AT KA WATE	<u>City</u>	Osweije	State	<u>NY</u>	Zip Coo	lə
oliy <u>A</u>	<u> Xuya</u>	State Tates Zip Cod	e 330411 24 hr. Eme	argency Contact Tel. No.	315.211	<u>.6005</u>		
Toute			· · · · · · · · · · · · · · · · · · ·			Vehicle Number	r	
No, of Units & Container Type	НМ	BASIC DES UN or NA Number, Proper Shipping	CRIPTION Name, Hazard Class, Packing Gi	roup (Weight Galion	DUANTITY , Volume, ns, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrie Use Only)
1.11		Non-RCRA, Non-DO	T Regulated Liquid		200	G		
	 	(Leachate Water)				•		
	-					<u> </u>	†	
	-	······································	·			· ··	┼───┤	
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PLACA	RDS TEN		BEMI		l		<u> </u>	
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te not exceeding 2) Where the applicable ta a release or a value deci- the carrie/s liability or deal	fif provisions spe aration by the a are a value. litre	city a limitation of the cartier's liability absort hipper and the ahipper does not release anders liability shall be fimited to the extent	are classified, packaged, d tabelad/placanded, and are sols in proper condition for eccording to apolloable. Subject to 3	Amt:	S shipment is to be delivered	COLLEC	ή <u>Η</u> ş	
tovided by such provisions 3) Commodities regulting must be so marked and pa	See NMFC iten special or addition chaged as to energy	172. International regulations of attention in handling or stowing ure safe transportation. See Section 2(9) of Determine and Charling and Catting 1(2) of	al and national governmental following late The carit freight and all	nout recourse an the consign ment: r shall not make delivery of the other lawful charges.	n, me consignor shail si Is shipnieni wilhoui paya	tent of FREQ FREQUENT PR		ES kboxilchantes
tem 360, Bills of Leding, F he Contract Terms and Co	nditions for a list	of such articles.	f this Bit of Lading.	(Signature of Const and as to each party at any lic	non) na laterasteri la sil ar env	sxoepi when right is check	box at	sine to be concert
recu ihe pr tents (übe v posse nator alty au	oparty described of packages union rold carrier being salon of the proper h, if on its route, of gread as to each of	above in apparent good order, except een noted (contents an own), marked, consigned, and destined as indicated above understood thoughout itils contract es maraning any perso try under the contract) agreese to carry to its usus place of del hendes to deliver to another canter on the toutie to said dest artifer of elit or any of, said property over all or any portion of	d condition of con- byperf which sold carrier elication for cooperations in Site Steary at sold deal- growm fundon. It is mubu- parter sold could to dea-	ormed hereunder shall be subject on on the date of shipment. hipper hereby certilies that he log classification and the said h ad for himself and his assigns,	to all the bill of fading terms to familiar with at the l erms and conditions are f	and conditions in the g aging terms and cor eroby agreed to by t	Winns in the shipper and	
SHIPPER	7. 6° A	n 4#	CARRIE	R				
PER ML	t K	are the	PER	Crenier	M VIE BEARLES	any arg	•	- A
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Permanent post-off	ce address o	shipper.	STYL	E F370-4 © 2012 LABE	LIMASTER @ (800) (21-5808 www.la	ibelmaster.c	om
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SUBJECT:				PAGE:	BY:	DATE:	JOB NUM	BER:	
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IENMON	SHIPPI		CHARGES ARE PREPAID ON	THIS BILL O	F LADING UNLES	S MARKED	COLLECT.		
is Memo	orandu	Bill of Lading, nor a c intended solely for f	opy or duplicate, covering the prope liling or record.	rty named here	in, and is	S	hipper No. 🟒	071316-2	
		•.	•			C	Carrier No	<u> </u>	
je	1 of	Э.	San Kaviron	mental C	orp.		Date	7/13/10	
	· · · · · · · · · · · · · · · · · · ·		(Name of carrier)		(SCAC)				
fact on Delivery ships	mente, the letter	s "COD" must appear before consignee's	name or as otherwise provided in item 430, Sec.1.	FROM: Shipper	DeMa	iximis, İl	え む		
	Water	Pollution Cantr	el Plant		703 E	ast Sener	nco Street	<u></u>	
lignee	35 Br:	illey Screet	• •		Oswege		N	Y	
ət	A 8408 819			City		State	TTN ANNA	Zip Code	
	-CEARIS WE	State	Zip Code	24 hr. Emerg	ency Contact Tel. N	тя£	6AG-477J		
				I			Vehicle		
e of Lipite			BASIC DESCRIPTION		TOTAL QUANTITY	WEI	GHT	CHARGES	
ontainer Type	НМ	UN or NA Number, Prop	er Shipping Name, Hazard Class, Pac	king Group	(Weight, Volume, Gallons, etc.)	(Subj Corre	ect to RAT	LE (For Carrier Use Only)	
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ommodifies requiring a ng musi be so marked	special or additional and packaged	as to ensure safe transportation. See		The carder sh payment of freight	all not make delivery of this and all other lawful charges.	s shipment without	FREIGHT PREPA	HT CHARGES	
n 2(e) of item 360, B ection 1(a) of the Cor	ills of Lading, Fr ntract Terms and	eight Bills and Statements of Charges d Conditions for a list of such articles.	Signature	<u> </u>	(Signature of Consignor)	·	except when box right is checked	al are to bé collect	
RECEIVEd described abo marked, cons this contract a its usual place destination. ()	D, subject to the d ove in apparent g igned, and desting a meaning any p e of delivery at a is mutuelly agree	lassifications and latilits in effect on the data pool order, except as noted (contents and ted as indicated above which seld carrier i verson or corporation in possession of the ald destination, if on its route, otherwise lo ed as to each carrier of all or any of, eald p	o of the issue of this Bill of Lading, the property condition of contents of packages unknown), the word carrier baleg understood throughout property under the contract) agrees to carry to deliver to another carrier on the coula to said reoperty over all or any portion of said could to	destination and hareunder shall shipment. Shipper hare the said terms a	as to each party et any time in be subject to ail the bill of lad by certifies that he is familiar wi nd conditions are hereby agreed	terested in all or any t ing terms and Condillo th all the lading terms I to by the shipper and	said property, that every a ns in the governing class and conditions in the gover accepted for himself and	ervice to be performed lifeation on the date of eming classification and his easigns.	
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	Closur 2		artai f ^a c	*****		Carrier N	o. <u> </u>	<u>7#9</u>
ge*of <u>*</u>		(Name of ca	nrier)	<u><u><u></u></u></u>	(SCAC)	Da	te <u>7-/3</u>	-/6
ollect on Delivery shipments, the letters "C	OD" must appear before consignee's name or as otherwise provided	in Item 430, Sec.1.	FROM: Shipper		DeMaximis, I	(nc		
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No. of Units Container Type	BASIC DESCRIPT UN or NA Number, Proper Shipping Name	TION , Hazard Class, Pa	acking Grou	p	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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	(Leachate Water)				6			
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ided by such provisions. See NMFC Item commodities requiring special or addition t be so marked and packaged as to ensu 360, Bills of Lading, Freight Bills and S	172. International and na result (ransportation, See Section 2(e) of tatements of Charges and Section 1(a) of	tional governmental fo	Insignee without lowing statement The carrier sh sight and all othe	r recourse on : alt not make o r lawful charge	the consignor, the consignor lelivery of this shipment witho s.	shall sign the CH	ARGES \$ FREIGHT CHAR GHT PREPAID Che Initiation of the second sec	GES sek box if charges
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rmanent post-office address of	shipper.	R	STYLE F	370-4 © 20	12 LABELMASTER®	800) 621-5808 v	ww.labelmaster.c	xom
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<u> </u>	<u> </u>	<u>.</u>	<u></u>				-,	



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel:	etw Koenneckie	Time on-site:	9:30
Transportation Subcontractor:	NA	-	
Leachate Destination: <u>N</u>	A	<u></u>	
Date: 8-7-16	····	-	

Well	Leachate Co Pum	llection Well ping	Well Pum Ar	bing Flow Rate alyses	Flow Rate	Remarks	
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	10:25	12:05		37 x 305=	11,285 - 90.	125 6FM	
LCW-2	10:25	12:05					
LCW-3	10:25	10:30					
LCW-4	10:25	12:05					
Leachate Hold	ling Tank: / é	,5 STAR	7				
Initial Flow M	leter Reading:	49,5 STO	P.				
Final Flow Me	eter Reading:						

PH 6.8 FE+20 Temp -55° ADDED 3010 EASTIC SODA

Load	(Pre-Loading) Tanker		(P	ost-Loading) Tanker	Destination	Remarks
	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						
Load #2			1			······
Load #3						
Load #4	,					



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel: MARTinko Eurocke	Time on-site:	6.40
Transportation Subcontractor: SUN ENVIRIMENAL CORP.		
Leachate Destination: POTW City of AVBURN		
Date: 8-3-16		

Wall	Leachate Co Pum	llection Well ping	Well Pumpi Ana	ng Flow Rate dyses	Flow Rate	Remarks				
vy eli	Start Time	Stop Tinie	Time	Tank Elev. (Down)	Calculation					
LCW-1	8:50	10:50		26:5 ×30	5 = 8082 ÷1	ROMIN = 676	P _m			
LCW-2	8:50	10:50								
LCW- ş	N/A		 							
LCW-4	8:50	10:50								
Leachate Hold	ling Tank:	11,5 STAR	<u>7 570</u>	P-38"						
Initial Flow M	eter Reading:									
Final Flow Meter Reading:										

ADDED 20165 CANSTIL SODA PH-7.6 FE-3.0 Temp 54"

	(Pre	-Loading) Fanker	(Po	ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	、
Load #1	7:00	Yes	8:05	52"	080316-1	8,000
Load #2	8:20	Yes	850	73 "	080316-2	3,600
Load #3	11:05	Yes	11:50	39"	080316-3	6,000
Load #4	11:55	Yes	12:20	50"	080316-4	2580

FIRST TANK- PH 6.8 FE+20 Temp 549 PRETREATMENT After CAUSTIC ADDISTION - PH-7.8, FE 202 Temp - 58"

Second TANK - PH.6.9 FE +20 Temp 54° - PRE TREATMENT After CANSTICSODA - PH-7.6 Temp 54° - FE 3.0

	LL OF LADI	NG	Shipper No. <u>0803/6 - /</u> Carrier No^ 7A_789			
Page lot 1 Sam Kavisonar (Name o	1 cantes) 1 cantes)	(SCAC)	Date _	<u> </u>	/6	
Car Collect on Delivery stigments, the letters "COD" must eppear before consigned's name or as otherwise provided in litera 430, Sec.1.	FROM: Shipper	DeMaximis, l	ĺnc			
Consignee Water Polician Control Mant	Street	703 East Sen	enca Street			
Streel 35 Bradley Street	City Ost	TREA	Slate MV	Zip Coo	la	
City Anthrance State The Zip Code 1907	De la Emananci Conte	nt Tol No. 312	218_6005			
	and a first second second	and the state of the second second second second second second second second second second second second second	Vehicle Numbe	ľ		
No, of Units & Container Type	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Conection)	PATE	CHARGES (For Carrier Use Only)	
1-TT Non-RCRA, Nen-DOT Regulated	Liquids	3000	G			
(Leachate Water)						
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PLACARDS TENDERED: YES IN NO BL Note (1) What's the rate is dependent on value, shippois ato required to state is thereby dedore the the contents of this	REMIT C.O.D. TO: ADDRESS					
specifically in writing the signed or declarity value or the snown, as relaxed, in a consignment are fully and accorned agreed or declared value of the property is natively specifically satisfy by the shops to be not exceeding per applicable tanti provisions specify a limitation of the particle statistical statistical and are classified, packaged, and table table tanti provisions specify a limitation of the particle statistical sta	COD	Amt: \$	C.O.D. FI PREPAID COLLEC			
a release on u value declaration by the shipper and the shipper does not release the cardera facility or declared a value, the carder's liability shall be finited to the satist provided by such provisions. See NMFC from 172. (3) Commodities requiring special or additional care or attention to in handling or stowing must be so marked and packad or additional care or attention. Sco Section 2(d) of Tem 360, Stills of Loging, Frolghi Bils and Statements of Charges and Saction 1(a) of Tem contend Tapen and Carebo and Saction 1(a) of the contend Tapen and Carebo and Saction 1(a) of Statement of the solution of a stowing Statement of the solution of the solution of the solution of the solution of the contend Tapen and Carebo and Saction 1(a) of	Subject to Section 7 of the ex- consignoe without recutires on totowing statement: The carter shalt not make freight and all other lawful charge	nditions, B life shipmont is to be a bis consignar, the consignar detvery of this shipmont without se.	Whence to the TOTAL anali sign the CHARGE ut payment of FREGHT PR except when of the acted	S S GHT CHARG EPAD Chec box at E	ES koxitchargas a no to be	
RECEIVED, eubject to the classifications and tarifis in effect on the data of the laste of this Bill of Lading. The property described above in apparent good order, except as noted (contains and condition of con- lents of packages unknown), transited, consigned, and (posthed as indicated above witch said canter (the word service being) understood theory provides as indicated above witch said canter possession of the property under the contract) agrees to carry to its usual pixes of defivery at said deet- nation, if on las more, otherwise to defiver to another carrier on the onto loss destination. It is much- ably agreed as to each carrier of all of any of, each property over all or any portion of dead route to des-	to a chan o da a to a chan bo potomed harawakar si silication on livo date of s Shipper haraby 60. governing classification o necoping ior kirnsai and necoping ior kirnsai and	any at any lime interceted in all rel bo subject to all the bill of taoin highment. filles that he is familiar with a mid the said terms and condition his assigns.	or any salt propent, that av g terms and conditions in the g 31 the tading terms and con a aro hereby agrood to by th	any service to coverning clas- iditions in the is shipper and		
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nonyme attention and the address of shipher	DATE STYLE F370-4 @20	12 LABEL MASTER @ //	100) 621-5608 www.la	balmaster.co		

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STRAIGHT BILL OF LADING

Shipper No. 080316 3

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Street	35 Bra i	lle y Street		City Os	wera	State N	V Zip Co	de
City	Anburg	State NV	Zip Code	4 24 hr. Emergency Cor	nlaot Tel. No315	218-6995		
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the canier's liability of dec provided by such provision (3) Commodifies requiring must be so marked and pa item 350, Bills of Lading, I then California Terms and Cal	fare a value, the s. See NMFC lies spacial or addition traged as to ens Freight Bills and indificus for a list	carrier's lisbility shall be timited to the extent n 172. mal care or altantico is handling or slowing ure safe fransportation, Sce Section 2(a) of Statements of Charges and Section 1(a) of of such affolds.	transport according to applicable international and national governmental regulations.	Subject to Section 7 of the Conditions, if this chipmoni is to be defined in this TOTAL complete willow: recourse on the contegnor, the consignor shall sign the The carrie chain on the contegnor, the consignor shall sign the The carrie chain of the difference of the shipment without payment of relight and all other lewhol difference of the shipment without payment of relight and all other lewhol charges.				ES boxitcharges s malobo
RECI http: iterio (the # posted ration elly aj	EIVED, subject to t operty described of packages entry ford carrier being astono in protection astono in protection of the route, of preedue to each o	In clease line and larifie in effect on the data barrier in apprenting good order, except as noted own), marked, consigned, and deallinged on ind andicaticod throughout this contrast as negati- ity under this contract agrees to carry to be cur- nerwise to deliver to another can the rout arrifer of all or any ol, sald property over all or or	of the issue of this Bib of Lading, forments and configure of con- caled above which said carrier in gavp ceison or corporation in it piece of delivery at said desti- e to anid destination. It is multi- my profilor of said route to des-	fination and as to each be performed haraundar, stification or the data of Stipper hereby o governing classification accopted for thimseff an	Spraue of Contegory party at any time interested in all- shalles subject to all the bill of lading singmant, subject that he is familiar with al and the add terms and condition d his assigns.	i splitte ch or any said property, that g terms and conditions in th I the lading terms and o a are hereby agreed to by	ided (svary sarvice to a governing clas- conditions in the the shipper and	Collact
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ATTACHMENT II

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Thursday, July 07, 2016

Mark Byrne O'Brien & Gere Operations, LLC. 7600 Morgan Road Liverpool, NY 13090

TEL: 315-637-2234

Project: PAS OSWEGO, QUARTERLY LEACHATE SAMPLES

RE: Analytical Results

Order No.: K1606175

Dear Mark Byrne:

Life Science Laboratories, Inc. received 2 sample(s) on 6/15/2016 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.

David J Prichard Project Manager

_			Life Science Laboratories, l	[nc.
•	L	SL,	5854 Butternut Drive	

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Analytical Results

EDE	East Syracuse, NY	13057	(315) 445-1	1900	<u></u>	StateCertNo: 10	248
CLIENT: Project: W.Order:	O'Brien & Gere Op PAS Oswego, Quan K 1606175	erations, terly Lea	LLC. chate Samples		Lab ID: Client Sample ID:	K1696175-00 Tank Effluent 1 03/09/16	1A Leachate,
Matrix:	WATER				Collection Date: Date Received:	06/15/16 12:00 06/15/16 15:10	
Inst. ID: ColumnID:	DO Meter	San %N	nple Size: NA Ioisture:		PrepDate: BatchNo:	06/16/16 15:49 R29949	
Revision: Col Type:	06/24/16 8:25	Tes	tCode BODSM	[5210B	FilelD:	I-SAMP-	
Analyte			Result Qua	I PQL	Units	DF	Date Analyzed
BIOCHEMIC	CAL OXYGEN DEMA		D5)		SM 5210B-01	,-11	
Biochemical	oxygen demand (BOD5)) (11	4.0	mg/L	1	06/16/16 15:49

Qualifiers	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blauk
Quanticiai	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)
	р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

I	life	Science	Laboratories,	Inc.
	854 Bu	tternut Drive		

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Analytical Results

LOL!	East Syracuse, NY 1305	7 (315) 445-1	900		stateCertNo:	10248
CLIENT: Project:	O'Brien & Gere Operati PAS Oswego, Quarterly	ons, LLC. Leachate Samples		Lab ID: Client Sample ID:	K1606175-0 Tank Effluen 03/09/16	01A If Leachate,
w Order: Matrix:	WATER			Collection Date: Date Received:	06/15/16 12:0 06/15/16 15:1	0
Inst. ID: ColumnID: Revision:	Fisher balance XA 06/17/16 14:54	Sample Size: NA %Moisture: TestCode TSS2540	D	PrepDate: BatchNo: FileID:	R29924 1-SAMP	
Col Type:						
Analyte		ResultQua	PQL	Units	DF	Date Analyzed
RESIDUE-N Residue-non-	ION-FILTERABLE (TSS) filterable (TSS)	ND	5.0	SM 2540 D-97 mg/L	',-11 1	06/16/16

Ouellinger	*	Value may exceed the Acceptable Level	B	Analyte detected in the associated Method Blank
Quanners:	Е	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the POL	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
	•			

 \mathbf{N}

	L ife Science 854 Butternut Drive Sast Syracuse, NY 1	2 Laboratories, Inc 3057 (315) 445-1900	•	Analy StateCertN	tical Results 0: 10248
CLIENT: Project:	O'Brien & Gere Ope PAS Oswego, Quart	erations, LLC. erly Leachate Samples	Lab ID: Client Sample ID:	K160617 Tank Eff 03/09/16	5-001B uent Leachate,
Matrix:	WATER		Collection Date: Date Received:	06/15/16 06/15/16	12:00 15:10
Inst. ID: ColumnID:	GENESYS 20	Sample Size: 500 mL %Moisture:	PrepDate: BatchNo:	06/23/16 0 22262/R29	1:00 9952
Revision: Col Type:	06/24/16 17:05	TestCode PHEN420.1	FileID:	1-SAMP-	
Analyte		Result Qual PQL	Units	DF	Date Analyzed
PHENOLIC: Phenolics, To	S, TOTAL RECOVER	ABLE 0.16 E 0.0050	EPA 420.1 mg/L	1	(EPA 420.1) 06/24/16

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Qualifiers	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Quanters	Е	Value exceeds the instrument calibration range	Н	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.

Analytical Results

LDL	Cast Syracuse, NY	13057 <u>(315)</u> 445-19	00	. [tateCe	rtNo: 10248
CLIENT: Project:	O'Brien & Gere Op PAS Oswego, Quan	perations, LLC. rterly Leachate Samples		Lab ID: Client Sample ID:	K1600 Tank I 03/09/	5 175-001C Sffluent Leachate, 16
W Order: Matrix:	WATER			Collection Date: Date Received:	06/15/ 06/15/	16 12:00 16 15:10
Inst. ID: ColumnID:	ICAP 61E	Sample Size: 50 mL %Moisture:		PrepDate: BatchNo:	06/17/1	16 0:00 R29966 ID 076150
Revision: Col Type:	06/30/16 8:05	TestCode 200.7 NP	W	FilelD:	I-SAW	(P-2/0130
Analyte		ResultQual	PQL	Units	DF	Date Analyzed
TOTAL ME Arsenic Barium Chromium Copper Iron Lead Nickel	TALS BY ICP	0.011 0.22 0.015 0.012 2.9 ND 0.36	0.010 0.10 0.010 0.010 0.050 0.010 0.010	EPA 200.7 mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1 1 1 1 1	(EPA 200.2) 06/29/16 13:31 06/29/16 13:31 06/29/16 13:31 06/29/16 13:31 06/29/16 13:31 06/29/16 13:31
Zinc		ND	0.020	mg/L	1	06/29/10 13:31

	•••••• *	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Qualifiers:	E	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	1	Analyte detected below the POL	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.

Analytical Results

F	ast Syracuse, NY	13057 (315) 445-	1900	\$	StateCertl	No: 10248
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, Qua	perations, LLC. rterly Leachate Samples		Lab ID: Client Sample ID:	K16061 Tunk Efj 03/09/16	75-001D Auent Leuchate,
Matrix:	WATER			Collection Date: Date Received:	06/15/16 06/15/16	12:00 15:10
Inst. ID: ColumnID:	AA3	Sample Size: 50 m %Moisture:	L	PrepDate: BatchNo:	06/23/16 22276/R2	0:00 29967
Revision: Col Type:	06/30/16 8:23	TestCode CN335.	4W	FileID:	I-SAMP-	
Analyte		ResultQu	al PQL	Units	DF	Date Analyzed
CYANIDE, Cyanide, Tota	TOTAL al	ND	0.010	EPA 335.4 mg/L	1	(EPA 335.4) 06/23/16

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

Life Science Laboratories, Inc.

Analytical Results

	East Syracuse, NY	(315) 445	-1900		StateCertN	lo: 10248
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, Quar K1606175	erations, LLC. terly Leachate Samples		Lab ID: Client Sample ID:	K160617 Tunk Effl 03/09/16	75-001F went Leuchate,
Matrix:	WATER			Collection Date:	06/15/16	12:00
Inst. ID: ColumnID: Revision: Col Type:	MSK 75 Rtx-VMS 06/30/16 10:35	Sample Size: 10 r %Moisture: TestCode 8260W	nL ' OLM42	Date Received: PrepDate: BatcbNo: FileID:	R29972 1-SAMP-F	<8522.D
Analyte		ResultQu	al PQL	Units	DF	Date Analyzed
VOLATILE	ORGANIC COMPOU	NDS BY GC/MS		SW8260C/503	0C	
Methylene chi	loride	ND	4.00	µg/L	2	06/20/16 11:09
trans-1,2-Dich	loroethene	ND	1.00	µg/L	2	06/20/16 11:09
cis-1,2-Dichio	roethene	143	1.00	µg/L	2	06/20/16 11:09
Trichloroether	te	6.38	1.00	μg/L	2	06/20/16 11:09
Toluene		29.4	1.00	μg/L	2	06/20/16 11:09
Surr: 1,2-Di	chloroethane-d4	106	75-130	%REC	2	06/20/16 11:09
Surr: Toluer	ne-d8	86	75-125	%REC	2	06/20/16 11:09
Surr: 4-Bror	nofluorobenzene	100	75-125	%REC	2	06/20/16 11:09

 Qualifiers:
 * Value may exceed the Acceptable Level
 B
 Analyte detected in the associated Method Blank

 F
 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

LSL Central Lab	orat	ories,	Inc.	585 Eas	54 Butte st Syrae	emut D cuse, N)rive New Y	′ork	13057	,	C	hain	of Custody
Client: man the			•		o) 445.	-1105					K	Kagi	25
Project: PAS DEAR OPERATION	<u>,s</u>		······						A	nalysi	s/Meth	nod	
Sampled by:	te sam	otes / Au	BURN	POTU	<u>ر</u>		//	/	7	1	7	 //	
Client Contract	e						~		' /		. /	' - /	
MARK BYRNE	Phone	# 315-	842 -	7024] /) a l	5/	51	1		2	
Sample Des	cripți	on] / 🕺		₹/	κ	۱۲/ ۲/ ۰	»/	N. C.	3RD
Sample Location	Date Collect	Time	Sample	Comp.	No. of	1/ K	18	ע (ג		Z/ °	Ň/ <	3)	Quateria
TANK Effluent Lendhote	6-15-	16 12:00	WATER		17	<u>sy</u>	<u> </u>	$\frac{1}{1}$		17	1		Comments
QC TRIP BLANK	6-3-1	16	wester			·		<u></u>	<u></u>		╁┸┈	<u> </u>	1Emp-54°
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Relinquished by: Mith themal a	<u></u>	Dato: C											
Relinquished by:		Date: 16-15	-//6 Ume	15.08	Receive	ed bý:						ate:	Time:
Relinquished by:		Date:	Time	:	Receiv	ed by:					E	Date:	Time:
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hipment Method: H Gnit													

, Life Science Laboratories, Inc.

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Sample Receipt Checklist

Client Name: OGINA PAS		Date and	Time Received:	6/15/2016 3:10:00 PM
Work Order Number: K1808175		Received	by: gís	
Checklist completed by: <u>75 6-15-16</u> Initials Date		Reviewa	d by:	The lic Date
Delivery Method	: <u>Hand Delivere</u>	0		
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🔲	No \Box	Noi Present 🗹	
Custody seals intact on sample bottles?	Yes 🗖	No 🗆	Not Applicable 🗹	
Chain of custody present?	Yes 🗹	No 🗆		
Chain of custody signed when relinquished and received?	Yes 🔽	No 🗖		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗔		
Samples in proper container/bottle?	Yes 🗹	No 🗆		
Sample containers intact?	Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆		
All samples received within holding time?	Yes 🗹	No 🗖		
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗖		
Water - VOA vials have zero headspace?	Yes 🗹	No 🗆	No VOA viais submit	ted 🔲
Water - pH acceptable upon receipt?	Yes 🗹	No 🗖	Not Applicable 🗌	

Sample ID

pН	Preservative	pH A	\ccep	tab	le	
>12	NaOH	Yes	\mathbf{V}	Ν		NA
<2	HNO3	Yes	\checkmark	N		
<2	HSO4	Yes	\checkmark	Ν		
<2	1:1 HCL	Yes		N		NA 🗹
5-9	Pest/PCBs (608/8081)	Yes		N		NA 🔽

Volume of Preservative added in Lab.

Comments:

Corrective Action:

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 3, 2016

Mr. Robert L. Johnson City Engineer Technician 13 W. Oneida City Hall Oswego, New York 13126 darcher@oswegony.gov

Re: Quarterly Discharge Report – 3rd Quarter 2016 Pollution Abatement Services Site – Oswego, New York City of Oswego Wastewater Discharge Permit 6-2013-14

Dear Mr. Johnson:

This quarterly report is submitted in accordance with the City of Oswego Wastewater Discharge Permit 6-2013-14 (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 2016 through September 2016.

The PAS Site discharged no leachate to the Oswego sewer system during the third quarter of 2016.

Discharge to City of Oswego July 2016 – September 2016

0 gallons

Discharge to the City of Oswego was discontinued in March 2015. As discussed with John McGrath, the discharge pumping system was disconnected and is not operated under the current leachate removal system. Upon notification from the City of Oswego regarding any revision to the pre-treatment standards, the system can be reconnected and operated as before. We will continue to maintain the permit in the event that discharge to Oswego becomes possible.

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

Sincerely, de maximis, inc.

Clay Me

Clay McClarnon

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

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PAPER

II-B

4TH QUARTER REPORT 2016

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<u>QUARTERLY PROGRESS REPORT – 4th QUARTER 2016</u> Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: Pollution Abatement Services Site Oswego, New York

PERIOD COVERED: October – December (4th Quarter) 2016

ACTIONS TAKEN DURING QUARTER:

- Leachate removal and site maintenance and monitoring activities were conducted at the Pollution Abatement Services (PAS) site (Site), in Oswego, NY by OBG Operations LLC (OBG) consistent with the PAS Site Operation, Maintenance and Long-term Monitoring Plan (Work Plan).
- A total of 40,000 gallons of leachate were removed from the Site during the period of October, November and December 2016. Specific quantities of leachate removed included 20,000 gallons in October, 10,000 gallons in November and 10,000 gallons in December. Details of the leachate removal for each month, along with historical leachate removal documentation are described in this progress report.
- During the months of October December 2016, leachate was pumped monthly from the PAS Site. The leachate was pumped into trucks and shipped for discharge and treatment to the City of Auburn Publicly Owned Treatment Works Plant (POTW) located at 35 Bradley Street, Auburn, NY. This discharge was authorized under the Industrial Pretreatment Program Wastewater Discharge Permit # 2014-01.
- Quarterly groundwater elevation monitoring was performed on November 8, 2016. Quarterly groundwater elevation monitoring results for the SWW- series monitoring wells (SWW-1 through SWW-12), leachate collection wells (LCW-1 through LCW-4), M-series wells (M-21 through M-23), LR-series wells (LR-2, 3, 6 and 8), LD-series wells (LD-3, 4, 5, 6, and 8), along with wells OS-1, OS-3, OI-1, OD-3 and LS-6 were recorded on the Pre-Pumping Well Monitoring Level Form. (Attachment B-1)
- Site maintenance activities were conducted monthly in combination with the monthly leachate removal event. The Site Inspection Checklist was used to document the land cap, leachate discharge system, leachate collection system and general Site conditions. (Attachment B-2) Monthly Site maintenance activities included the following:
 - Inspected the perimeter security fence of the Site. No discrepancies were reported at the time of the inspection.
 - The Site single French drainage system and two (2) concrete troughs were visually inspected and cleared of accumulated grass. No discrepancies were reported at the time of the inspection.
 - Visually inspected the Site slurry-wall containment vegetated cap for signs of burrowing vermin or surface anomalies. No other discrepancies were reported at the time of the inspection.



- 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 were 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 were inspected. No discrepancies were reported at the time of the inspection.
- On October 5, November 4 and 9, and December 7, 2016, OBG performed the monthly pre-pumping collection system inspection for leachate collection wells LCW-1, 2, 3 & 4, along with inspection of the leachate discharge pumping system. Observations were recorded on the Site Inspection Checklist. In advance of each leachate removal event, OBG informed the City of Auburn POTW located at 35 Bradley Street, Auburn, NY of the anticipated delivery of leachate tankers. (Attachment B-2)
- Upon completing the monthly leachate collection system inspections, OBG manually energized the 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, was recorded on the Leachate Disposal Checklist. (Attachment B-2)
- During the months of October, November and December 2016, OBG pumped a combined total of 40,000 gallons of leachate from LCW 1, 2, 3 & 4 into the leachate collection tank and then loaded the leachate into trucks for shipment to the City of Auburn Water POTW. The volume and flow rate of each leachate discharge was recorded onto the Leachate Disposal Checklist, as was leachate water pH, and temperature. The leachate pumping system consists of a leachate tank suction hose, gas powered trash pump, inline bag filter system, pressure gauge, leachate sampling port, and discharge hose to leachate tanker. The amount shipped was recorded onto the Leachate Disposal Checklist and documented in the Bill of Lading. (Attachment B-2)
- Upon completing each monthly leachate discharge the leachate discharge pump and tank suctions hoses were placed back into the leachate hold tank and the leachate pump system was shut down and prepared for storage. The concrete leachate hold tank was secured, as was the wooden maintenance shed. Upon the completion of monthly Site activities, the Site metal access gates were closed and padlocked.
- On November 7, 2016, OBG performed the semi-annual groundwater sampling for monitoring wells LR-6, LR-8, M-21 and leachate collection wells LCW2 and LCW4. Based on the 2016 Annual Report, well OD-3 was included in this sampling event, and well M-22 was not sampled during this event. Sampling activities for long term monitoring wells were conducted using low-flow sampling protocols described in the Work Plan. Samples were



preserved using industry standard methods, and delivered to Life Science Laboratories in East Syracuse, NY for analysis. (Attachment B-3)

- On September 14, 2016, the quarterly discharge sample required under the City of Auburn POTW permit was taken and hand delivered to Life Science Laboratories in East Syracuse, NY for analysis the data was included in the Auburn 4th quarter report.
- The PAS Oswego Site quarterly discharge report for the 4th quarter of 2016 for the City of Auburn was submitted on November 30, 2016 in accordance with Permit 2014-01. The quarterly reports for Auburn do not follow annual quarters. Therefore the quarterly report for Auburn included September, October and November 2016. The quarterly report to the City of Oswego was waived during this period due to revision of the permit. No leachate was discharged into the City of Oswego POTW during this period. (Attachment B-4)
- The Institutional Control inspection was performed on November 9, 2016. This included interviews with the Industrial Precision Products facility manager and review of City and County records. (Attachment B-5)

DOCUMENTATION OF REMOVAL ACTIVITIES FOR PREVIOUS QUARTER

- The Groundwater Pre-Pumping Well Monitoring Level Form for November 8, 2016 is attached to this report. (Attachment B-1)
- The Site Inspection Checklist for October 5, November 4 and 9 and December 7, 2016 are attached to this report. (Attachment B-2)
- The Leachate Disposal Checklist for the October 3, November 9 and December 7, 2016 are attached to this report. (Attachment B-2)
- The Bill of Lading for the October 5, November 11 and December 7, 2016 are attached to this report. (Attachment B-2)
- The validated lab report for the Semi-annual Groundwater sampling of LR-6, LR-8 M-21 and the sampling for, LCW2, LCW4 and OD-3 performed on November 8, 2016 is attached to this report. (Attachment B-3)
- The PAS Quarterly Discharge report submitted on November 30, 2016 to the City of Auburn is attached to this report. (Attachment B-4)
- The Institutional Control inspection and record review is attached. (Attachment B-5)

ATTACHMENT B-1

GROUNDWATER ELEVATION DATA

PAS Operation(Option(Contents) Gere) PAS Oswego Ste Oswego, New York Pre-Pumping Well Monitoring Levels

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Concerns to A start of

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Date- 11	/7 + 1	1/8 Z	016	Technician -	Ma	tin t	Soen	nnacl	Le	Month -	Ň	ovember,	
Well	Riser	Well	Range Verific	ation		Monthly,C	nsite Fleic	l Measurei	nerlle.				
Number	Elevation	Average Well Level	Low Well Level	High Well Leval	Well:Level (1st) Chèok	Wellitevel (2fid) Ghéck	WelliWit Najeron k jaŭje 'YES	fin Range portal sel data NO	Well Level check (9rd)) trivers we is course (meastrong)		NOT		darita Katara Artara
SWW1	289,33	9,82	8.62	11.62	9.84	9.84	/						<u> </u>
sww2	289.37	16.43	15.75	17.40	16,78	16.78	1						
SWW3	286,50	17.38	16.60	17.96	17.75	17.75	V						
SWW4	283.60	15.12	13.44	17.12	<u>14.84</u>	14.84	V						
SWW5	277.02	13.55	12.55	14.66	14,36	14,36	V						
sww <u>6</u>	273.06	8.78	7.95	9.58	8,53	<u>8.5a</u>	<u> 1</u>						
SWW7	277.93	8.79	8.02	9.43	9,18	9.18	V						
SWW8	278.24	5.98	3.94	11.38	7.10	7,10	V						<u> </u>
sww9	285.55	18.75	17.48	20.06	20,02	20,02	V						
\$WW10	280.43	12.88	9.71	18.65	11.68	11.68	 ✓ 						
SWW11	273.50	9,89	8.81	11.48	11.34	11,34	1						
SWW12	272.82	11.58	8.70	15.36	<u>13.72</u>	13.72	1						
LCW-1	272.21	9.61	8.20	10.98	10.88	10,88	<u> </u>						
LCW-2	274.44	11.86	10.44	13.22	13,12	13,13	~					· <u> </u>	
LCW-3	284,36	18.11	17.40	19.56	18,40	18,40	<u> </u>		10 0 m				
LCW-4	285.70	18.76	16.64	19.72	19.80	19.80		1	14,80				
<u>05-1</u>	272.10	12.67	8.60	16.60	10,6a	10,60	. V						
01-1	272.00	12,85	-11.14	15.26	12,40	12.40	V						
<u>0\$-3</u>	277.89	16.22	13.92	18.58	16.92	16,92							
OD-3	277.85	16.06	13.76	18.42	16.76	16,76	V	<u> </u>	ļ				
10-3	278.62	6,81	4.32	11.77	7,40	1,46	V.					•	
1D-4	279.25	12.86	9.85	17.15	13,03	12.02	V	· · · · · · · · · · · · · · · · · · ·					
1.0-5	272.94	12.72	9.10	15.86	14,95	14.85	V				•	1	
LS-6	274.14	13.19	10.25	15.78	14,65	14,65	V						
LD-6	274.03	11.83	10.12	13.88	Inida	14,00	L.						
LD-8	272.83	10.04	7.15	15.38	10,01	10,27							
LR-2 ,	289.85	13.70	12.70	14.96	13,64	13.64	V						
LR-3	278.06	9.20	7.80	12.00	<u>9.34</u>	4,34							_
LR-6	274.39	11.16	10.05	12.72	11.38	11,38		<u> </u>					····
LR-8	273.42	10.85	9.45	12.84	11.34	11,54							
M-21	272.32	10.50	9.17	12.50	10:12	10/10/	V J						-
M-22	273.88	11.14	10.00	12.62	11:5-5	11,20							
M-23	270.49	12.94	12.25	14.25	10,85	14,85	1V			L			

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ATTACHMENT B-2

SITE INSPECTION CHECKLIST AND LEACHATE DISPOSAL CHECKLIST



Site Inspection Checklist (v2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 10-5-16

Time______6:45_____

Field Technician <u>MARTAN Koenwerke</u>

Weather Conditions SUMY 55°

	Che	ck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	1		NONE VISABLE
Land cap irregularities (note	e e		
anomaly)	1		OK
French drainage system clear and			
function able	V		OK
Concrete trough clear and	1		
function able	V		oK
Leachate Discharge System			
City of Oswego sanitary discharge			
valve positioned "Open"			NA
Discharge Pump inspected &	Ţ		
operational	V		BUMPED PUMPOVER
Discharge pump oil level verified			
prior to use.	V		OK
Discharge pump drained of			• .
residual water (drained upon		ļ	
completion of monthly discharge)	-		NA
Heat trace system operational &			
verified in the "ON" position			0
(Applicable Oct - May)			04
Flow totalizer operational. Flow			
readings recorded onto			
"Leachate Discharge Form"		1	NA
Leachate Collection System		<u> </u>	
Leachate holding tank visually			
inspected for structural integrity			0K

1

10-5-16

Leachate holding tank metal roof		
inspected for structural integrity		OK
Leachate tank access doors	ł -	
locked (post pump out)	V	Yes
Pump power panel(s) secured	V	Yes
Monitoring Wells (MW)		
Locks installed	V	Yes
MW's marked & identifiable	V	0K
General Site Condition		
Trees & brush cleared off security		
fence	V	WORK IN DROGRESS
Perimeter security fence intact &		· · · · · · · · · · · · · · · · · · ·
free of damage	\vee	ok
Site access driveway inspected &		
free on snow & damage	\vee	0K
Security access gates / Padlock &		
chain serviceable	V	Yes
Site gate signage intact	\vee	Yes
Interior & exterior of utility		
storage shed inspected for		
damage & secure with locks	ν	0K
Fire extinguisher serviceable,		
inspected, and inspection		
recorded	V	Yes
Spill control material inspected &		
adequate	ν	yes
PPE available and utilized as		
required	V	Yes
Emergency contact information		
posted within shed	V	yes
Additional remarks (use separate s	heet	is required)
ADTUSTED PH AND filter	CD.	20,000 gal Leachate
SHIPPED TO AUBURN PO	TW	· · · · · · · · · · · · · · · · · · ·
······································		

2

Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

11-1-16 Date <u>11-4-16</u>

Time______

Field Technician MARTIN Koennecke

Weather Conditions Summy

	Che	eck v	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	V		NONE VISABLE
Land cap irregularities (note			
anomaly)	V		oK
French drainage system clear and			
function able	V		CLEARED
Concrete trough clear and			
function able	4		CLEMRED TROUGH of VEYETATION
Leachate Discharge System			
City of Oswego sanitary discharge			
valve positioned "Open"	V		NA
Discharge Pump inspected &			
operational	V		BUMPED OVER
Discharge pump oil level verified			
prior to use.	~		NA
Discharge pump drained of			
residual water (drained upon			
completion of monthly discharge)	V		NH
Heat trace system operational &			
verified in the "ON" position			
(Applicable Oct - May)	V		ott
Flow totalizer operational. Flow			
readings recorded onto			
"Leachate Discharge Form"	V		WH
Leachate Collection System			
Leachate holding tank visually			
inspected for structural integrity	V		REPAINED

11-1-16 / 11-4-16

	1	I	
Leachate holding tank metal roof	· .		
inspected for structural integrity			PAINTED
Leachate tank access doors			
locked (post pump out)	V		Yes
Pump power panel(s) secured	L		Yes
Monitoring Wells (MW)			
Locks installed	V		Yes
MW's marked & identifiable	V		Yes.
General Site Condition			
Trees & brush cleared off security			
fence	V		WORK IN PROGRESS
Perimeter security fence intact &			
free of damage	V		CLEARING FENCE LINE
Site access driveway inspected &			
free on snow & damage	$ \nu $		OK
Security access gates / Padlock &			
chain serviceable	Y		Yes
Site gate signage intact	V		Yes
Interior & exterior of utility			
storage shed inspected for			
damage & secure with locks	v		Yes
Fire extinguisher serviceable,			
inspected, and inspection			
recorded	\mathbf{v}^{*}		Xes
Spill control material inspected &			
adequate	\mathcal{V}		OK
PPE available and utilized as			
required	V		I CK
Emergency contact information			
posted within shed	V		Yes

Additional remarks (use separate sheet is required)

	A
TANK ROOT - PRIMED, WOOD ON TANK FROM T	REPLACED
	1 -

.

Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date //-9-16

Time_____6:45____

Field Technician MARIN Koennethe

Weather Conditions OCHALAST 903

	Che	eck v	(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)	\vee		OK
French drainage system clear and			
function able	V		Yes
Concrete trough clear and			
function able	V	-	Yes
Leachate Discharge System		• •	
City of Oswego sanitary discharge			
valve positioned "Open"	レ		NA
Discharge Pump inspected &			
operational	11		BUMPED OVER
Discharge pump oil level verified			
prior to use.	V		oK
Discharge pump drained of			
residual water (drained upon			
completion of monthly discharge)			NA,
Heat trace system operational &			
verified in the "ON" position			0.0
(Applicable Oct - May)	V		ott
Flow totalizer operational. Flow			
readings recorded onto			۴.
"Leachate Discharge Form"	v		NA.
Leachate Collection System			
Leachate holding tank visually			
inspected for structural integrity	V		lok

1
11-9-16

		<u> </u>	Ψ
Leachate holding tank metal roof			· · · · · · · · · · · · · · · · · · ·
inspected for structural integrity	V		0K i
Leachate tank access doors			
locked (post pump out)	V		Yes
Pump power panel(s) secured			
Monitoring Wells (MW)		-	
Locks installed	V		Yes
MW's marked & identifiable	V		Yes
General Site Condition			
Trees & brush cleared off security			
fence	V		WORK IN PROGRESS
Perimeter security fence intact &			
free of damage	$ \checkmark$		OK
Site access driveway inspected &			
free on snow & damage	V		OK
Security access gates / Padlock &			
chain serviceable	ν		Yes
Site gate signage intact	V		Yes
Interior & exterior of utility			· ·
storage shed inspected for			
damage & secure with locks	V		OK
Fire extinguisher serviceable,	1		
inspected, and inspection	ĺ		New York
recorded	V		765
Spill control material inspected &			84
adequate			765
PPE available and utilized as			
required			<u>Yes</u>
Emergency contact information			NA of
posted within shed	V.		YES
Additional remarks (use separate ş	heeț	is re	quired)
10,000 gel Leuch	atu	1	SENT TO POTLU CITYOF HUBURN
- Som Annuel use	<u> </u>	A	mpling EVent 11-7-16-11-8-16
	-		/ /

Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 12-17-16

Time<u>6:45</u>

Field Technician MARTIN KORANeckie

Weather Conditions OV/UK(MST 35"

	Che	eck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	V		NONE VISABLE
Land cap irregularities (note anomaly)	V		oK
French drainage system clear and function able	V		Yes
Concrete trough clear and function able	v		Yes
Leachate Discharge System		<u>.</u>	
City of Oswego sanitary discharge valve positioned "Open"	$ _{v}$		NA
Discharge Pump inspected & operational	\checkmark		BUMPED PUMP OVER
Discharge pump oil level verified prior to use.	v		yes
Discharge pump drained of residual water (drained upon completion of monthly discharge)	v	-	NA
Heat trace system operational & verified in the "ON" position			off
Flow totalizer operational. Flow			
"Leachate Discharge Form"	V	 	NA
Leachate Collection System	. *	ļ	
Leachate holding tank visually	V		OK

· · ·	···	<u>/ð-</u>	7-10
Leachate holding tank metal roof			
inspected for structural integrity	1		<u>OK</u>
Leachate tank access doors		ĺ	
locked (post pump out)	$\overline{\mathbf{V}}$		yes
Pump power panel(s) secured	V		Yes
Monitoring Wells (MW)			
Locks installed	V		Yes
MW's marked & identifiable	V		Yes
General Site Condition			
Trees & brush cleared off security			
fence	V		WORK IN PROGRESS
Perimeter security fence intact &	i		,
free of damage	v/		OK
Site access driveway inspected &			Э. И
free on snow & damage	v		<u>OK</u>
Security access gates / Padlock &		· .	\mathbf{V}
chain serviceable	V		Yes
Site gate signage intact	V		Yes
Interior & exterior of utility			
storage shed inspected for			10 -
damage & secure with locks			yes
Fire extinguisher serviceable,			
inspected, and inspection			Vac
recorded			/ 25
Spill control material inspected &		ļ	A1/
adequate	1		UK
PPE available and utilized as			Mar
required	$\downarrow V$		yes
Emergency contact information			
posted within shed	V		yes
Additional remarks (use separate s	heet ₽/	is rea 7	quired) 10,000 cml. Leadhate

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PUMPED AND ADJ. PH TO,000 GOL. LUSTCHAPPE SHIPPED TO CITY OF AUBURN POTU Compositie SHMPLIES THEON FOR AUBURN POTU PERMIT RENOUDE



Leachate Disposal Checklist

Project Personnel: <u>MAI</u>	ETIN KOENNELKE		Time on-site:	12:30
Transportation Subcontractor:	NA			
Leachate Destination:	NA	. <u> </u>		,
Date: 10.3.16				

Weli	Leachate Collection Well Pumping		Well Pumph Ana	ng Flow Rate lyses	Flow Rate	Remarks
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	. <i>.</i>
LCW-1	1230	14:35	125mm	:37,5 x305	= 11,438 -	125 Mar 91,5
LCW-2	1230	14:35				
LCW-2	12:30	12:40				
LCW-4	12:30	14:35			91.5 GPM	
Leachate Hol	ding Tank: /	1" STAR	-			
Initial Flow N	Aeter Reading:	48.5 STOP				
Final Flow M	leter Reading:					

PH-6,85, FE+20, TEMP 54° HODED 30165 CHUSTIC SODH

,	(Pre-Loading) Tanker		(P	ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						•
Load #2						
Load #3						
Load #4						

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Leachate Disposal Checklist

Project Personnel: MARTIN Knewwerke	Time on-site:	<u>la:45</u>
Transportation Subcontractor: SUN ENVIROMENTAL INC.		
Leachate Destination: POTK CITY of HUBURN		
Date: 10-5-16		

Well	Leachate Collection Well Pumping		Well Pump An	ing Flow Rate alyses	Flow Rate	Remarks
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	9:30	11:10		23, X 305	- 7,015 but :	100m w = 70161
LCW-2	9:30	11:10				
LCW-3						
LCW-4	9:30	/1:10	•		PUMPED	7,015
Leachate Hol	ding Tank: 6	START	STOP 29	11	·	/
Initial Flow N	Aeter Reading:	PH-6.8 PE Added a	120, TEMP 5, 5165 CAUSTIC	Soba F	H 7.8, FE3	2, TEMp. 541
Final Flow M	leter Reading: Z	END AM #	7.8 , Teny	-54°, FE-3	12	

		(Pre-Loading) Tanker		ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1	17:10	Yes	8:15	51″	100516-1	8,000
Load #2	8'.40	Yes	930	68.5"	1005110-2	5,500
Load #3	11:20	Yes	12:20	42"	100516-3	6,500
Load #4						

FIRST TANK PH-7.5, TEMP 56°, FE 3.0 1mg Second TANK - PH-7.8, TEMP 54°, FE-3.2 1mg

Leachate Disposal Checklist

Project Personnel:

MARTIN Koennecke

Time on-site:

1:00

Transportation Subcontractor: <u>SUN ENVIROMANTAL</u> Leachate Destination: <u>POTW AUBURN</u>

Date: ______ //-8-16 / 11-9-16

	Leachate Collection Well Pumping		Well Pumpin Anal	g Flow Rate yses	Flow Rate	Remarks
Well	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	12:25	14:00	95 MIN	34.5"	10,527	IID GRM
LCW-2	12:25	14:00				
LCW-3	12:25	12:30				· · · · · · · · · · · · · · · · · · ·
LCW-4	12:25	14:00			L	
Leachate Hold	ling Tank: STA	T- 7.5"	END-	<u>42.".</u>		
Initial Flow M	leter Reading:	PH-6.1	, FE ta	M/4 5	'4°	
Final Flow M	eter Reading:	ADDAD SOM	s CAUSTIC	5@1bs		

11.0.11. ____ PH-20 EE 1.4 Mls Toma 50'

	(Pro	(Pre-Loading) Tanker		ost-Loading) Tanker	Destination	Remarks
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1	7:15	Yes	7:55	52"	110916 - 1	4,000
Load #2	8:05	Yes	9:00	42"	110916 -2	6,000
Load #3						·
Load #4						



Leachate Disposal Checklist

Project Personnel:

MATIN Koenneckie

Time on-site: 9:10

Transportation Subcontractor: SUN ENVIRUNALINC

Leachate Destination: <u>CITY of AUGUN POTW</u>

	Leachate Collection Well Pumping		Well Pumpin Ana	ig Flow Rate lyses	Flow Rate	Remarks	
Well	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	9:15	1045	MOMIN	- 10,065 =	1/2.6FM	10,065	
LCW-2	9:15	1045					
LCW-3	9:15	9:25		·			
LCW-4	9:15	10:45				L,	
Leachate Ho	lding Tank: S7	AUT-10"	STOP - 43	, [#]		······································	
Initial Flow Meter Reading: PH-6.7 ; FE +20 ^{mly} , Temp 54°							
Final Flow N	Aeter Reading:	ADDET	50 Hbs	CHUSTIC F	E 2. Yall	PH-8,35	
L					Temp	2.54"	

	(Pro	-Loading) Fanker	(P	ost-Loading) Tanker	Destination	Remarks
Load Load #1	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1	720	755	750	60"	120716-1	3,000
Load #2	7:55	Yes	9:00	45.5"	120716-2	7,000
Load #3						
Load #4						

COMPOSITE SAMPLES TAKEN FOR AUBURN POTU PERMIT RENEWAL



SUBJECT:	PAGE:	BY:	DATE:	JOB NUMBER:
				· · · · · · · · · · · · · · · · · · ·

'his Memorandum Is an acknowledgment that a Bill of Lading has been Bill of Lading, nor a copy or duplicate, covering the p intended solely for filing or record.	en issued and is not O roperty named herein,	riginal and is	Shipper No.	<u>/00-</u> 7A-70	6-1			
	nin turp.		Des 10- 5-16					
(Name	of carrier)	(SCAC)	Date		· • • •			
Collect on Defivery shipments, the fallers "COD" must eppear before consigned's name or as otherwise provided in Item 439, Boo 1	FROM: Shipper	7 93 E2st Seman t	<u>n Strat</u>					
SUBIDUE AN WARD, F. BALLER PARTE C. COM EL VAL & MARTE	Street		195					
reet 35 Brydlay Street	. <u>City</u>		State	Zlp Coo	9			
ity Autometer State MY Zip Code 1302	24 hr. Emergency G	316-2	18-0995 					
oute			Venic	le ber				
No. of Units 8 Container Type HM UN or NA Number, Proper Shipping Name, Hazard Cla	ss, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)			
LTT Non-RCRA, Non-DOT Regulated	Liquins	Baso	6					
(Leachate Water)								
30B# OB&C 006?								
Loud #1								
S/"								
PLACARDS TENDÉRED: YES C NO CA	REMIT C.O.D. TO: ADDRESS							
nemically in while the diversion of backtore transformation in the diversion of the diversi		Amt: \$	PREF COLL	AID D ECT D S				
) Whare the applicated shift provisions append a unitation of the carrier a latent vice the same of a value declaration by the stripper and the shift per an	for ble Subject to Section 7 of t	he conditions, if this shipment is to be se on the consignor, the consignor	delivered to the TOTA shall sign the CHAP	L Ges s				
ovided by such provisions, see NMEO Item 172. 1) Commodities requiring special or additional care or attention in handling or stewing usate as or marked and packaged as to ensure safe transportation. Bea Section 2(e) of em 380, Stills of Lading, Freight Bills and Statements of Charges and Section 1(a) of paccharact terms and Conditions for a list of such articles. Signat	following slatement The carder shall not freight and all other lawful	maka delivery of this ehipment with charges, (Elgnature of Consignal)	ut payment of FREIGH exception right is of	REIGHT CHAR IT PREPAID Che Inten box al hecked	GES ck box li charges are to be collect			
RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this BUI of Lading, the property described above in apparent good order, except as noted (contents and condition of con- terns of packages unknown), marked, consigned, and deslined as indicated above which said carder (the word carrier being underslood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to eavy to los usual place of delivery at stad desli- nation, loss the route, officient of a static pacent over you for usual back desline ratios. If on the route, officient of a static pacent over out on said deslinion. It is mutu- nation, if on the route, officient of a static pacent over over allow parts of said to be to des-	tinalion and as to e be performed herein stilication on the da Shipper here governing classific, accepted for himse	nach party al any lime interested in ai rder shall be subject to all the bill of ladi te of ahipment. by certilles that he is familiar with ation and the said terms and conditio if and his assigne.	i or any said property, th ng terms and conditions in all the lacing terms and ns are hereby agraed to	at every service to the governing clas- t conditions in the by the shipper and				
SHIPPER	CARRIER	Sun Envicom	nental Cor	¥.				
ZER Math Kounde	PER CHUM	in tallas						
	DATE 10-	5.16	•					
	STYLE 5370-4	@ 2012 LABEL MASTER ®	(800) 621-5808 ww	w.iabelmaster.e	om			

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SUBJECT:				PAGE:	BY:	DATE:	JOB NU	OB NUMBER:				
L					<u> </u>		I					
This Memo	randu	is an acknowledgment the Bill of Lading, nor a copy	hat a Bill of Lading has been i or duplicate, covering the prop	issued and is berly named he	not Origi rein, an	inal d is	Shipper No.	<u>1005 h</u>	<u></u>			
age <u>1</u> of	f_ <u>1</u>			teriter)	<u></u>	(SCAC)	Carrier No. Date	10/5	<u>16</u>			
n Collect on Dailway shipmen O: ; consignee	mis, the letters	COD" must appear before consignos's name or	as otherwise provided in item 430, Seo.1.	FROM: Shipper Street	Da 70	Maximis, Inc 3 East Sevenc	a Street					
itreet <u>3.6. KP.</u> VI Sta	ann:	State W1%7	Zip Code <u>학교하</u> 구경	City	Cook	靡	State <u>NV</u> 8 6005	Zip Cod	iə			
	11 E	764	ALFWAJA	24 III, Enterge	ity Cont	The lot that the state	Vehi Nurr	cler 207	1203			
No. of Units & Container Type	HM	E UN or NA Number, Proper	ASIC DESCRIPTION Shipping Name, Hazard Class,	Packing Group		TOTAL QUANTITY (Welght, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)			
1I'l'	<u>1-TT</u> <u>Non-RCRA, Non-DOT Regulated I</u> (Leachate Water)					5,520	G					
		JOB#08&G.0067 68	2.5 ⁴		·····							
PLACAI late — (1) Wriere the rat pecifically in writing the as greed or declared value of a not accreating release or a value dade to carriare lability or decla rovided by such provisions. 3) Commodition enguling a local and pas are 360. Bits of Labilot. E	RDS TE is depending greed or dec the proparty if provisions s anei/on by the re a value, th see NMFC II pecial or add icaged as too realort Bills ar	NDERED: YES NO ant on value, shippers are required to state lared value of the property, as follows: "The forecry pacefolically stated by the shipper to per perity a timitation of the carifers tability absent a shipper and the shipper does not release or carriers tability shall be limited to the extent tem 172. Itional care or attention in handling or stowing meause safe transportation. See Section 2(e) of d Statements of Charges and Section 1(e) of	I hareby declare link the contents of this consignment are fully and acourately descrived showe by the proper shipping name and are classified, packaged, marked and tabelladyhecuado, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.	REMIT C.O.D. TO: ADDRESS COD Subject to Sector Consignee without following estermate The carfer als freight and all object	n 7 of the c recourse c li not make tawiu char	Amt: \$ orditions, Il this shortent is to be in the consignor, the consignor a delivery of this shortent with yes.	delivered to the shall sign the shall sign the shall syment of Frietic	D, FEE: PAID L LECT L \$ AL RGES \$ TREIGHT CHAP HT PREPAID Ch	IGES ack box il charges are bo			
he Coniract Terms and Cor RECEI the pro tents o (life w posses nellon,	nditons for a iVED, subject operty clescribe of packages up ord carrier bel seion of the pro- , if on ite route	list of such articles. to the classifications and tariffs in effect on the data ad above in apparent good order, except as noted known), marked, consigned, and desined as in ng undestood throughout this contract as mean party under the contract) agrees to carry to its usu , otherwise to deliver to another carrier on the rou- party to any the contract agrees to carry to its usu	Signature of the Issue of this BII of Lading, (contents and condition of con- ficeled above which said carrier ng any parson or corporation in al pices of delivery at said desi- le (seaid dealination. ILIS mutu- any northon of said doub to des-	tination and be performed silication on Shippe governing c accepted fo	the cash the	Senature of Contignol party at any lime interested in a shall be subject to all the bill of lad ishipment. satifies that he is familiar with and the satid terms and condilio d his assigns.	ightie I) or any seld property, ti ing terms and conditions in all the fading terms an ons are hereby agreed to	crecked hat every service to n the governing das d conditions in the by the shipper an				
SHIPPER DeM PER	Ally agreed as to each cariter of all of any of, said property over all or any portion of said costs to des-					PER CARRIER						
Permanent post-offic	c o address	s of shipper.	· •	STYLE F	70-4 @:	2012 LABELMASTER®	(800) 621-5808 wi	ww.labelmaster	com			

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SUBJECT:				PAGE:	BY:	DATE:	JOB NUMBER:			
This Memo	orandi	is an acknowledgment Bill of Lading, nor a co Intended solely for filir	that a Bill of Lading has been in y or duplicate, covering the prop g or record.	ssued and is n erty named her	ot Original . ein, and ie		Shipper No. Z	005 7 <u>A-71</u>	<u>16-3</u>	
age <u>*</u> (of <u> </u>		Name of C	arrier)	()	BCAC)	Date 🖉	10.5	-76	
Collect on Delivery shipm D: onsigned Vill 33 &	anis, the letter <u>for: Poll</u>	s "COD" must appear belore consignee's name 193 dž O31 (1920 to the the Stand	or as otherwise provided in Item 480, Sec.1.	FROM: Shipper Street	DeMaxir 703 East	ris, Inc <u>Senenca</u> s	Street	Zip Cod	8	
17 A 20 821	R 1498 A.C.Y	State Migr	Zip Code 含化的分子	Od by Emorand	v Contrat Tel No	316 988	бова			
			2.8 G 2.8.	24 nr. Cilleigen	y comat rez rut.	<u></u>	Vehick)))		
No. of Units & Container Type	НМ	UN or NA Number, Prope	BASIC DESCRIPTION r Shipping Name, Hazard Class, I	Packing Group	TOTAL (Weigh Gallo	QUANTITY I, Volume, ne, elc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)	
1.71	Non-RCRA, Non- (Leachate Water)	DOT Regulated Liq	IKČĀS	65	20	G				
	- -	JONÉ OR&G.0067					, ř			
		Lad #3								
		42"								
	RDS TE		A	REMIT C.O.D. TO: ADDRESS						
scillcully in writing the s read or declared Value o not exceeding 	agreed of dec if the property diff provisions a laration by the lare a value, th s, see NMFC II epecial or add uckaged as to a Freight Bills ar onditions for a	lared value of the property, as follows: "In the hereby specifically, slated by the shipper b per principal of the carrier's liability abser a shipper and the shipper does not releas to carrier's liability shall be limited to the exter tem 172. Titlonal care or attention in handling or stowin meuro safe transportation. Gee Section 2(e) of eld Statements of Charges and Section 1(e) of its of euch articles.	d consignment are fully and accurately of described above by the proper shipping name and are classified, packaged, marked and labelladyticarded, and are in all respects in proper condition for transport according to applicable international and national governmental gregulations.	COD Subject to Sector consignes without r following slatement The carrier shall reight and all other t	Amt: ? of the conditions, if this scourse on the consign not make delivery of ta awful changes. (Signature of Cons	shipmeni is to be del of, ihe consignat sh lis shipment without gnot)	C.O.D. PREPA COLLE Nored to the atil sign the CHARG PREIGHT except whi rghts data	FEE: ID II ST II \$ ELGHT CHARG PREPAID Char Infoxat [GES ck box if charges are to be collect	
REC the pr tents (the v poste nation ally a	EIVED, subject roperty describe of packages un word carrier bel paston of the pro n, if on its route greed as to eac	to the classifications and tariffs in effect on the do ad above in apparent good order, except as not knowny, marked, consigned, and desined as not fing understood throughout this contract as me operty under the contract) agrees to carry to lise , otherwise to deliver to enother earther on the ch carrier of all or any of, cald property over all	te of the lastic of thia Bill of Lading, ed (contents and condition of con- indicated above which eaid carrier antig any person or corporation in sust piece of delivery at said desil- aute to said destination. It is mutu- or any portion of said route to das-	fination and a be performed sification on t Shipper governing cla accepted for	a to each party at any ti arcunder shall be subjec to date of shipment. hereby certifies that h solitation and the said unneil and his assigne.	ne (nierested in all o to all the bill of lading a la familiar with all erms and conditions	r any said property, that terms and conditions in the the lading terms and c are hereby agreed to by	every service to a governing clas- onditions in the the shipper and		
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ATTACHMENT B-3

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SEMI-ANNUAL LEACHATE AND GROUNDWATER MONITORING NOVEMBER 2016

DATA VALIDATION

FOR

WATER MONITORING PAS Oswego OSWEGO, NEW YORK

ORGANIC ANALYSIS DATA Volatiles in Water Laboratory Job No. K1611090

Analyses Performed

By:

Life Sciences Laboratory East Syracuse, NY

For:

de maximis, inc. Knoxville, TN 37919

Data Validation By:

ddms, inc. St. Paul, Minnesota 55108

February 9, 2017

1547-3131/psn PAS\K1611090Voa

EXECUTIVE SUMMARY

Validation of the volatile organics analysis data prepared by Life Sciences Laboratories, Inc. for seven water samples, one equipment blank, and one trip blank supporting the PAS Oswego Semi Annual Well Sampling event has been completed by de maximis Data Management Solutions, Inc. (ddms). The data were reported by the laboratory under Laboratory Job No. K1611090. The following samples were reported:

Equipment Blank	M-21	LR-8	OD-3	X-1
LR-6	LCW-2	LCW-4	Trip Blank	

Based on the validation effort, the following qualifiers were applied:

- Results for vinyl chloride in LCW-2 and for acetone in X-1, LR-8, LCW-2, and LCW-4 were qualified estimated (J+) and may be biased high.
- Results for methylene chloride in LCW-2 and LWC-4 were qualified as not detected (U) at the reporting limit.
- Results for acetone in X-1 and 1,1-dichloroethane and methylcyclohexane in OD-3 were qualified as not detected (U) at the analyte-specific reporting limit.

All other results were determined to be valid as reported. Details of the validation findings and conclusions based on review of the results for each quality control requirement are provided in the remaining sections of this report.

Documentation issues are discussed in Section XIII.

This report should be considered <u>part of the data package</u> for all future distributions of the volatiles data.

INTRODUCTION

Analyses were performed in accordance with USEPA SW-846 Method 8260C. This method does not stipulate a reporting format, however, the laboratory provided a "CLP-type" data package for review. Results of sample analyses were reported by the laboratory without qualifications.

Since no validation guidelines specific to the analytical method employed are available, ddms' validation was performed, to the extent possible, in conformance with EPA's "Validating Volatile Organic Compounds by Gas Chromatograpy/Mass Spectrometry, SW-846 Method 8260B & 8260C, SOP NO. HW-24, Revision 4" as well as ddms' "Standard Operating Procedure: Validation and Review of Volatile Organic Data; ECS-SOP-003". Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. An initial assumption is that the data package is presented in accordance with the CLP requirements (or "CLP-like," as in this case). It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the Region II Guidelines:

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) Criteria. The analyte may or may not be present in the sample.

These codes are recorded on the Data Summary Forms contained in Attachment A and the Organic Analysis Report Sheets in Attachment B of this validation report to indicate qualifications placed on the results based on the data review.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

I. Holding Times, Preservation and Sample Integrity

A copy of the applicable chain of custody (COC) record was included in the data package, documenting a sample collection date of November 7 and 8, 2016. The samples were hand delivered to the laboratory on November 8, 2016. The temperature of the cooler on receipt at the laboratory was slightly outside acceptance criteria (6.1° C; criteria 4.0° C \pm 2.0° C). No data were qualified due to the slight temperature excursion. Acceptable preservation of samples (pH <2) was noted on the injection log and was also included in the narrative. The samples were analyzed on November 19, 2016, within the 14-day holding time for preserved samples.

II. GC/MS Instrument Performance Check

A summary form was provided for two bromofluorobenzene (BFB) instrument performance check run on instrument "MSN76", representing the periods during which the samples and associated standards were analyzed. The performance checks were fully documented and acceptable.

III. Calibration

Manual integrations were indicated on the IC quantitation reports for many analyte responses, however no supporting documentation was provided to verify that the integrations were appropriately performed. The validation was completed under the assumption that all manual integrations were appropriately performed.

A. Initial Calibration (IC)

One IC was performed in support of these sample analyses. Documentation of all of ten of the individual IC standards was present in the data package and relative response factors (RRFs) as well as percent relative standard deviation (%RSD) values were accurately reported. All reported %RSD values were below the maximum acceptance limit of 20 percent. All average RRF values were acceptable.

B. Continuing Calibration (CC)

One CC was performed on November 19, 2015. All RRF values and percent difference values were acceptable.

IV. Blanks

One laboratory method blank was analyzed in support of these samples. One trip blank and one equipment blank were submitted in support of these samples. Methylene chloride was detected in the equipment blank (0.20 μ g/L) and trip blank (0.21 μ g/L). No target compounds were detected in the method blank. Results for methylene chloride in LCW-2 and LWC-4 were qualified as not detected (U) at the reporting limit.

V. Surrogate Compound Recovery

Recoveries of all of the surrogate compounds were correctly calculated, accurately reported, and within acceptance limits.

VI. Spike Analysis

A. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were performed on M-21. Percent recoveries for several compounds were outside of the acceptance criteria (70-130%R). Where the recovery exhibited a high bias and the compound was not detected in any of the site samples, no data were qualified. Only those excursions impacting data are discussed here. All percent recoveries were acceptable with the exception of vinyl chloride (138%R/139%R). The result for vinyl chloride was qualified estimated (J+) in LCW-2 and may be biased high.

B. Laboratory Control Sample (LCS)/LCS Duplicate (LCSD)

One LCS/LCSD pair were reported with these samples. Percent recoveries for several compounds were outside of the acceptance criteria (70-130%R). Where the recovery exhibited a high bias and the compound was not detected in any of the site samples, no data were qualified. Only those excursions impacting data are discussed here. All percent recoveries were acceptable with the exception of vinyl chloride (137%R/136%R) and acetone (225%R/182%R). All percent differences were acceptable with the exception of acetone (21%D; criterion 20%D). Results for vinyl chloride in LCW-2 and for acetone in X-1, LR-8, LCW-2, and LCW-4 were qualified estimated (J+) and may be biased high.

VII. Field Duplicate

Sample X-1 was collected as a blind field duplicate of Sample OD-3. Results for acetone in X-1 and 1,1-dichloroethane and methylcyclohexane in OD-3 were qualified as not detected (U) at the analyte-specific reporting limit due to failure to confirm in the paired field sample.

VIII. Internal Standard Performance

All internal standard areas and retention times were within quality control limits for the applicable analyses.

IX. Target Compound Identification

Target analytes were detected in nine of these samples and an acceptable mass spectrum was provided for most compounds detected. Analyte-specific reporting limits are equal to at least the lowest standard in the calibration range, in most cases higher than the lowest standard, and are well supported by the IC.

X. Compound Quantitation and Reporting Limits

Target compound concentrations and reporting limits (RLs) were correctly calculated and accurately reported for all samples and spike samples.

The Data Summary Forms in Attachment A list all individual sample analytes. Where no result is listed, the compound was not detected and the RL was not qualified. Sample-specific RLs may be calculated from the information on the data summary form by multiplying the quantitation limit (far left column) by the dilution factor.

XI. Tentatively Identified Compounds (TIC)

Tentative identification of non-target compounds was not a requirement of this analytical program.

XII. System Performance

The analytical system appears to have been working satisfactorily at the time of these analyses, based on evaluation of the available raw data.

XIII. Documentation

The chain-of-custody record was present and accurately completed for the samples reported in this data package.

The following documentation issues were observed during the validation of these data:

- The sample identifications on the COC did not include the sample date. The laboratory appended the sample dates to the field identifications to facilitate database requirements. The sample identifications provided on the COC have been used throughout this report.
- The Sample Receipt Checklist indicates that the receipt temperature was acceptable, however based on the temperature noted on the COC, the receipt temperature was slightly outside of the acceptance criteria.

While these documentation issues do not affect the usability of the data, they could be problematic if the data were used in litigation.

XIV. Overall Assessment

Based on the validation effort, the following qualifiers were applied:

- The result for vinyl chloride was qualified estimated (J+) in LCW-2 and may be biased high due to elevated MS/MSD recoveries.
- Results for vinyl chloride in LCW-2 and for acetone in X-1, LR-8, LCW-2, and LCW-4 were qualified estimated (J+) and may be biased high due to elevated LCS/LSCD recoveries.
- Results for methylene chloride in LCW-2 and LWC-4 were qualified as not detected (U) at the reporting limit due to blank contamination.

• Results for acetone in X-1 and 1,1-dichloroethane and methylcyclohexane in OD-3 were qualified as not detected (U) at the analyte-specific reporting limit due to failure to confirm in the paired field sample.

All other results are valid as reported.

Documentation issues observed in the data package are described in Section XIII.

This validation report should be considered <u>part of the data package</u> for all future distributions of the volatiles data.

ATTACHMENT A

DATA SUMMARY FORMS Laboratory Job No. K1611090 Volatiles in Water

DATA SUMMARY FORM: VOLATILES SEMI-ANNUAL WELL SAMPLES (ug/L)

Site Name: PAS Oswego

Laboratory Job No. K1611090

Sampling Date: November 7-8, 2015

ddms Project No. 1547-3131

Sample Location	Equipment Blank	oment Blank M-21		X-1		LR-8		OD-3		LR-6		LCW-2		
Lab Sample ID	K1611090-001		K1611090-00	2	K1611090-00)3	K1611090-004	ŧ	K1611090-00	5	K1611090-00	16	K1611090-0	07
Dilution Factor	1.0		1.0		1.0	_	1.0		1.0		1.0		5,0	
RL										_				ΓÏ
1.00 Dichlorodifluoromethane														<u> </u>
1.00 Chloromethane										-			43.8	<u></u>
1.00 Vinyi Chloride														<u> </u>
	-		1 37	_	6 56		5.64		6.21				11.4	
					0.50		5.5.							
1.00 Inchioromoromethane														\square
0.50 1.1 2 Tricklass 1.2.2 triffuggethere	· · · · ·			-										
10.0 A setone					10.0	U	1.95						9.30	J+
10.0 Acetone					10,0									
5.00 Mathul A actuate								-						
2 00 Methylana Chlarida	0.20												2.00	U
2.00 Menylene Chioride	0.20													
0.50 trans-1,2-Dichloroentene	· · · · · · · · · · · · · · · · · · ·							-						f l
				-			017	J	0.50	U	1.35		46.2	
0.50 i. 12 Dichlanathana										-	0,14	J	136	
0,30 cis-1,2-Dichloroethene			,											
					0.10	Г							4.75	
0.50 Chlorotorm						-							25.2	
0.50 Curlsburget			0.52		1.84		3.49		1.81					\square
0.50 Cyclohexane			0.52		1.04	<u> </u>								\square
0.50 Carbon Tetrachioride					0.87		2.95		0.85				252	
0.50 Benzene				<u> </u>	4.07									
0.50 T-isblarothme		_				i					0.18	J	65,0	
0.50 Mothulaugiaherana						1	0.31	J	0.50	U				
0.50 Michigaron and						·····								
0.50 Bromodichloromethane			· · · · ·											
0.50 cis-1 3-Dichloropropene														
5 00 4-Methyl-2-pentanone														
0.50 Toluene					0.27	J	0.42	l	0,26	J			0.85	; J
0.50 trans-1 3-Dichloronronene	· · · · · · · · · · · · · · · · · · ·						<u> </u>							
0.50 1 1 2-Trichlorosthane					· ·								0,85	; <u>1</u>
0.50 Tetrachlomethene													. 244	<u>+</u>
5.00 2-Hexanone						1							· · · · ·	+
0.50 Dibromochloromethane			· _ ·											<u> </u>
0.50 1.2-Dibromoethane										<u> </u>		I		+
0.50 Chlorobenzene			1,40		17.2		17.3		16.5	L_		<u> </u>	44,2	4
0.50 Ethylbenzene								l					8.40	4
1.00 Xylenes (total)							0.50	J		1		I—	13.60	4
0.50 Styrene							1					<u> </u>		+
1.00 Bromoform								<u> </u>						+
0.50 Isopropylbenzene			0,23	J	0.83		1.20		0.80		<u> </u>	[1.10	11
0.50 1.1.2.2-Tetrachloroethane													1.40) រ
0.50 1.3-Dichlorobenzene			1				0,15	J						
0.50 1.4-Dichlorobenzene					0.97	-	0.97		0,98					
0.50 1.2-Dichlorobenzene			0.17	J	0.63		0,76	Ľ	0.60				2.80)
5.00 1.2-Dibromo-3-chloropronane	-					1								
1.00 1.2.4-Trichlorobenzene	-	İ	1											

DATA SUMMARY FORM: VOLATILES SEMI-ANNUAL WELL SAMPLES (ug/L)

Site Name: PAS Oswego

Sampling Date: November 7-8, 2015

Laboratory Job No. K1611090

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ddms Project No. 1547-3131

Sample Location	LWC-4		QC Trip Blank											
Lab Sample ID	K1611090-008		K1611090-00	9										
Dilution Factor	20		1											
PI														
1.00 Dichlorodifluoromethane								Î						
1.00 Chloromethane														
1.00 Vinyl Chloride	13.8	J+												
1.00 Promomethane		-												
1.00 Chloroethane	70.6			-		-		_						
1.00 Trichlorofluoromethane														
0.50 1 1-Dichloroethene														
0.50 1.1.2-Trichloro-1.2.2-trifluoroethane														
100 Acetone	23.4	J+				_								
0.50 Carbon Disulfide														
5 00 Methyl Acetate														
2 00 Methylene Chloride		U	0.21	J										
0.50 trans-1.2-Dichloroethene	·									_				
1 00 MTBE		-												
0.50.1.1. Dichloroethane	10.2													
0.50 cis-1 2-Dichloroethene	12.6						1							
10.0 2-Butanone													L	
0.50 Chloreform														
0.50 1.1 L-Trichloroethane														
0.50 Cycloberane	8.60	J												L
0.50 Carbon Tetrachloride														
0.50 Benzene	350													
0.50 1 2-Dichloroethane														
0.50 Trichloroethene														
0.50 Methylcyclohexane	2.20	l												
0.50 1.2-Dichloropropane														
0.50 Bromodichloromethane													!	·
0.50 cis-1 3-Dichloropropene														<u> </u>
5.00 4-Methyl-2-pentanone												ļ		┣──
0.50 Toluene	92.0												ļ/	<u> </u>
0.50 trans-1.3-Dichloropropene		_											·	_
0.50 1.1.2-Trichloroethane								_					·	<u> </u>
0.50 Tetrachloroethene							l					 	ļ'	<u> </u>
5.00 2-Hexanone						<u> </u>			L			<u> </u>		
0.50 Dibromochloromethane										ļ			<u> </u>	
0.50 1,2-Dibromoethane										<u> </u>		<u> </u>	 	
0.50 Chlorobenzene	212									<u> </u>		<u> </u>	 	
0.50 Ethylbenzene	267				ļ			L				<u> </u>	<u> </u>	
1.00 Xylenes (total)	593				ļ	L_						·	├ ─────	┣
0.50 Styrene						L	L	L			├ ───	<u> </u>	├── ─	┼──
1.00 Bromoform												Į		
0.50 Isopropylbenzene	3,80	J			l								[
0.50 1,1,2,2-Tetrachloroethane													ļ/	L
0.50 1,3-Dichlorobenzene														
0.50 1,4-Dichlorobenzene	3,40	J											L'	
0.50 1,2-Dichlorobenzene	30.8								1					
5.00 1,2-Dibromo-3-chloropropane														
1.00 1.2.4-Trichlorobenzene														

***®ddms**

ATTACHMENT B

ORGANIC ANALYSIS REPORT SHEETS Laboratory Job No. K1611090 Volatiles in Water

LITE Science 5854 Butternut Drive	Laborator	ries, Inc.		AI		cal kesults
East Syracuse, NY 13	057 (315) 44	15-1900		Stat	eCertNo:	10248 .
CLIENT: O'Brien & Gere Oper Project: PAS Oswego-Semi-A W Order: K1611090 Matrix: WATER Q Inst. ID: MSN 76 ColumnID: Rtx-VMS Revision: 12/28/16 9:33 Col Type:	ations, LLC nnual Well Samplin Sample Size: 1 %Moisture: TestCode: 8	ng 0 mL 260W OLM42	Lab ID: Client Samp Collection E Date Receiv PrepDate: BatchNo: FileID:	K ble ID: <i>Ed</i> Date: 11 ed: 11 R3 1-5	1611090- <i>quipmen</i> /07/16 10: /08/16 15: 0630 SAMP-n50	001A <i>It Blank 11/7/16</i> 15 25 001.D
Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOLIN	DS BY GC/MS			SW826	0C/5030C	
Dichlorodifluoromethane	ND	1.00	0.10	uo/L	1	11/09/16 16:46
Chloromethane	ND	1.00	0.33	µg/L	1	11/09/16 16:46
Vinvl chloride	ND	1.00	0.33	μg/L	1	11/09/16 16:46
Bromomethane	ND	1.00	0.33	μg/L	1 ·	11/09/16 16:46
Chloroethane	ND	1.00	0.33	µg/L	1	11/09/16 1 6 :46
Trichlorofluoromèthane	ND	1.00	0.10	μg/L	1	11/09/16 16:46
1.1-Dichloroethene	ND	0.50	0.16	µg/L	1	11/09/16 16:46
1,1,2-Trichloro-1,2,2- trifluoroethane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
Acetone	ND	10.0	1.00	μg/L	. 1	11/09/16 16:46
Carbon disulfide	ND	0.50	0.11	µg/L	1	11/09/16 16:46
Methyl acetate	ND	5.00	1.00	μg/L	1	11/09/16 16:46
Methylene chloride	0.20 J	2.00	0.16	µg/L	1	11/09/16 16:46
trans-1,2-Dichloroethene	ND	0.50	0 .10	µg/L	1	11/09/16 16:46
Methyl tert-butyl ether	ND	1.00	0.16	µg/L	1	11/09/16 16:46
1,1-Dichloroethane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
cis-1,2-Dichloroethene	ND	0.50	0.10	µg/L	1	11/09/16 16:46
2-Butanone	ND	10.0	1.00	µg/L	1	11/09/16 16:46
Chloroform	ND	0.50	0.10	μg/L	1	11/09/16 16:46
1,1,1-Trichloroethane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
Cyclohexane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
Carbon tetrachloride	ND	0.50	0.10	μ g /L	1	11/09/16 16:46
Benzene	ND	0.50	0.10	µg/L	1	11/09/16 16:46
1,2-Dichloroethane	ND	0.50	0.16	µg/L	1	11/09/16 16:46
Trichloroethene	ND	0.50	0.10	μg/L	1 .	11/09/16 16:46
Methylcyclohexane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
1,2-Dichloropropane	ND	0.50	0.16	µg/L	1	11/09/16 16:46
Bromodichloromethane	ND	0.50	0.10	µg/L	1	11/09/16 16:46
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1	11/09/16 16:46
4-Methyl-2-pentanone	ND	5.00	1.00	µg/L	1	11/09/16 16:46
Toluene	ND	0.50	0.10	µg/L	1	11/09/16 16:46
trans-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1	11/09/10 16:46
1,1,2-Trichloroethane	ND	0.50	0.16	µg/L	T A	11/09/10 10:40
Tetrachloroethene	ND	0.50	0.10	µg/L	1	11/09/10 10:40
2-Hexanone	ND	5.00	1.00	hâ∖r	1	11/08/10 10:40
Qualifiers: * Value may exceed	the Acceptable Level		B Analyte	detected in th	e associated	Method Blank
E Value exceeds the	instrument calibration ra	unge	H Holding	times for pre	paration or a	malysis exceeded
J Analyte detected b	clow the PQL		ND Not Dete	ected at the P	ractical Qua	ntitation Limit (PQL)
P Prim./Conf. colum	n %D or RPD exceeds li	imit	S Spike Re	covery outsi	de accepted i	recovery limits

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Print Date: 12/30/16 9:45

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Project Supervisor: David J Prichard

	ife Science	Laborato		An State	Analytical Results StateCertNo: 10248			
CLIENT: Project:	O'Brien & Gere Op PAS Oswego-Semi-	erations, LLC -Annual Well Samp	bling	Lab ID: Client Sampl	K1 e ID: <i>Eq</i>	K1611090-001A D: Equipment Blank 11/7/10		
W Order: Matrix:	K1611090 WATER Q	Sample Size	Collection Date: Date Received:		ate: 11/ d: 11/	07/16 10: 08/16 15:	15 25	
ColumnID: Revision: Col Type:	Rtx-VMS 12/28/16 9:33	Sample Size: %Moisture: TestCode:	8260W OLM42	BatchNo: FileID:	R30 1-S)630 AMP-n5(001.D	
Analyte		Result (Qual PQL	MDL	Units	DF	Date Analyze	
VOLATILE		NDS BY GC/MS			SW826	0C/5030C	;	
Dibromochloro	methane	ND	0.50	0.10	µg/L	1	11/09/16 16:46	
1,2-Dibromoet	hane	ND	0.50	0.16	µg/L	1	11/09/16 16:46	
Chlorobenzen	e	ND	0.50	0.10	µg/L	1.	11/09/16 16:46	
Ethylbenzene		ND	0.50	0.10	µg/L	1	11/09/16 16:46	
Xylenes (total))	ND	1.00	0.30	µg/L	1	11/09/16 16:46	
Styrene		ND	0.50	0.10	µg/L	1	11/09/16 16:46	
Bromoform		ND	1.00	0.33	µg/L	1	11/09/16 16:46	
Isopropylbenz	ene	ND	0.50	0.10	µg/L	1	11/09/16 16:46	
1,1,2,2-Tetrac	hloroethane	ND	0.50	0.10	µg/L	1	11/09/16 16:46	
1,3-Dichlorobe	enzene	ŃD	0.50	0.10	µg/L	1 -	11/09/16 16:46	
1,4-Dichlorob	enzene	ND	0.50	0.16	µg/L	1	11/09/16 16:46	
1,2-Dichlorob	enzene	ND	0.50	0.10	µg/L	1	11/09/16 16:46	
1,2-Dibromo-3	3-chloropropane	ND	5.00	1.00	µg/L	1	11/09/16 16:46	
1,2,4-Trichlor	obenzene	ND	1.00	0.10	µg/L	1	11/09/16 16:46	
Surr: 1,2-D	ichtoroethane-d4	111	75-130	0.16	%REC	1	11/09/16 16:46	
Surr: Tolue	ne-d8	107	75-125	0.10	%REC	1	11/09/16 16:46	
Surr: 4-Bro	mofluorobenzene	98	75-125	0.10	%REC	1	11/09/16 16:46	

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A	Volue more ou				A walk to defected to the econyted Method Mank
inguners:	value may ex	ceed the Acceptable	Level	B	Analyte delected in the associated withher intake
E	Value exceeds the instrument calibration range			н	Holding times for preparation or analysis exceeded
J	Analyte detec	ted below the PQL		ND	Not Detected at the Practical Quantitation Limit (PQL
· F	Prim./Conf. c	olumn %D or RPD	exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 12/30/16 9:45 807161

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Analytical Results Life Science Laboratories, Inc. 5854 Butternut Drive StateCertNo: 10248 East Syracuse, NY 13057 (315) 445-1900 K1611090-002A Lab ID: CLIENT: O'Brien & Gere Operations, LLC Client Sample ID: M-21 11/7/16 PAS Oswego-Semi-Annual Well Sampling **Project:** 11/07/16 11:15 **Collection Date:** W Order: K1611090 11/08/16 15:25 Date Received: Matrix: WATER **PrepDate: MSN 76** Sample Size: 10 mL Inst. ID: R30630 **BatchNo:** %Moisture: ColumnID: Rtx-VMS 8260W OLM42 FileID: 1-SAMP-n4993.D **Revision:** 12/28/16 9:33 TestCode: Col Type: Date Analyzed DF Units **Result Qual PQL** MDL Analyte **VOLATILE ORGANIC COMPOUNDS BY GC/MS** SW8260C/5030C 1 11/09/16 12:27 0.10 µg/L 1.00 ND Dichlorodifluoromethane 11/09/16 12:27 μġ/L 1 ND 1.00 0.33 Chloromethane 11/09/16 12:27 ug/L 1 0.33 ND 1,00 Vinyl chloride 11/09/16 12:27 1 µg/L ND 1.00 0.33 Bromomethane 11/09/16 12:27 0.33 µg/L 1 1.37 1.00 Chloroethane 11/09/16 12:27 0.10 μg/L 1 ND 1.00 Trichlorofluoromethane µg/L 1 11/09/16 12:27 ND 0.50 0.16 1,1-Dichloroethene µg/L 1 11/09/16 12:27 0.10 0.50 1,1,2-Trichloro-1,2,2-ND trifluoroethane 11/09/16 12:27 µg/L 1 1.00 Acetone ND 10.0 1 11/09/16 12:27 0.11 µg/L Carbon disulfide ND 0.50 1 11/09/16 12:27 μg/L ND 5.00 1.00 Methyl acetate 1 11/09/16 12:27 2.00 0.16 µg/L ND Methylene chloride 1 11/09/16 12:27 µg/L 0.10 ND 0.50 trans-1,2-Dichloroethene 1 11/09/16 12:27 0.16 µg/L ND 1.00 Methyl tert-butyl ether 1 11/09/16 12:27 µg/L 1,1-Dichloroethane 0.10 ND 0.50 11/09/16 12:27 1 0.10 µg/L cis-1,2-Dichloroethene ND 0.50 11/09/16 12:27 1 2-Butanone ND 10.0 1.00 µg/L 1 11/09/16 12:27 ND 0.50 0.10 µg/L Chloroform 1 11/09/16 12:27 0.10 µg/L ND 0.50 1,1,1-Trichloroethane 11/09/16 12:27 0.10 µg/L 1 0.52 0.50 Cyclohexane 1 11/09/16 12:27 0,10 µg/L ND 0.50 Carbon tetrachloride 11/09/16 12:27 1 0.10 μg/L ND 0.50 Benzene 1 11/09/16 12:27 0.16 µg/L 1,2-Dichloroethane ND 0.50 11/09/16 12:27 1 µg/L ND 0.50 0.10 Trichloroethene 0.10 μg/L 1 11/09/16 12:27 0.50 ND Methylcyclohexane 1 11/09/16 12:27 0.16 µg/L ND 0.50 1,2-Dichloropropane 0.10 μg/L 1 11/09/16 12:27 0.50 ND Bromodichloromethane 1 11/09/16 12:27 μg/L 0.16 ND 0.50 cis-1,3-Dichloropropene 11/09/16 12:27 µg/L 1 1.00 ND 5.00 4-Methyl-2-pentanone 11/09/16 12:27 1 µg/L 0.10 Toluene ND 0.50 11/09/16 12:27 0.16 µg/L 1 trans-1,3-Dichloropropene ND 0.50 11/09/16 12:27 0.16 μg/L 1 ND 0.50 1,1,2-Trichloroethane

2-Hexanone Analyte detected in the associated Method Blank в * Value may exceed the Acceptable Level Qualifiers: Holding times for preparation or analysis exceeded Value exceeds the instrument calibration range H Е Not Detected at the Practical Quantitation Limit (PQL) Analyte detected below the PQL ND J. Spike Recovery outside accepted recovery limits S Prim./Conf. column %D or RPD exceeds limit Р

0,50

5.00

Tetrachloroethene

ND

ND

4

11/09/16 12:27

11/09/16 12:27

µg/L

µg/L

0.10

1.00

1

	Life Science I 854 Butternut Drive	aborato	ories, Inc.		A	nalytic	cal Results		
CLIENT: Project:	O'Brien & Gere Operat PAS Oswego-Semi-An	ions, LLC nual Well Samp		Lab ID: Client Sample	E ID: M	K1611090-002A D: M-21 11/7/16			
W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	K1611090 WATER MSN 76 Rtx-VMS 12/28/16 9:33	Sample Sizë: %Moisture: TestCode:	10 mL 8260W OLM42	Collection Da Date Receiver PrepDate: BatchNo: FileID:	nte: 11 d: 11 R: 1-	1/07/16 11: 1/08/16 15: 30630 -SAMP-n49	15 25 93.D		
Analyte	<u></u>	Result Q	Qual PQL	MDL	Units	DF	Date Analyzed		
VOLATILE (ORGANIC COMPOUND	S BY GC/MS			SW82	60C/5030C			
Dibromochloro	omethane	ND	0.50	0.10	µg/L	1	11/09/16 12:27		
1,2-Dibromoe	thane	ND	0.50	0.16	µg/L	1	11/09/16 12:27		
Chlorobenzen	e	1.40	0.50	0.10	µg/L	1	11/09/16 12:27		
Ethylbenzene		ND	0.50	0.10	μg/L	1	11/09/16 12:27		
Xylenes (total)	ND	1.00	0.30	µg/L	1	11/09/16 12:27		
Styrene		. ND	0.50	0.10	µg/L	1	11/09/16 12:27		
Bromoform		ND	1.00	0.33	µg/L	1	11/09/16 12:27		
İsopropylbenz	ene	0.23 J	0.50	0.10	µg/L	1	11/09/16 12:27		
1,1,2,2-Tetrac	chloroethane	ND	0.50	0.10	μg/L	1	11/09/16 12:27		
1,3-Dichlorob	enzene	ND	0.50	0.10	, µg/L	1	11/09/16 12:27		
1,4-Dichlorob	enzene	ND	0.50	0.16	µg/L	1	11/09/16 12:27		
1,2-Dichlorob	enzene	0.17	l 0.50	0.10	µg/L	1	11/09/16 12:27		
1,2-Dibromo-	3-chloropropane	· ND	5.00	1.00	μg/L	1	11/09/16 12:27		
1,2,4-Trichlon	obenzene	ND	1.00	0.10	µg/L	1	11/09/16 12:27		
Surr: 1,2-D	ichloroethane-d4	108	75-130	0.16	%REC	1	11/09/16 12:27		
Surr: Tolue	:ne-d8	107	75-125	0.10	%REC	; 1	11/09/16 12:27		
Surr: 4-Bro	mofluorobenzene	96	75-125	0.10	%REC	; 1	11/09/16 12:27		

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	*	Value may exceed the Acceptable Level	B	Analyte detected in the associated Method Blank
Quanners:	E	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit		Spike Recovery outside accepted recovery limits
	10/0		Dary	A I Drichard

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Print Date: 12/30/16 9:45 807154 Project Supervisor: David J Prichard

Life Scienc	e Laborator	ies, Inc.		A	nalytic	al Results	
East Syracuse, NY	13057 (315) 44	5-1900		St	ateCertNo:	10248	
CLIENT: O'Brien & Gere O Project: PAS Oswego-Sem W Order: K1611090 Matrix: WATER Q Inst. ID: MSN 76	CLIENT: O'Brien & Gere Operations, LLC Project: PAS Oswego-Semi-Annual Well Sampling W Order: K1611090 Matrix: WATER Q nst. ID: MSN 76 Sample Size: 10 mL			K1611090-003A mple ID: X-1 11/7/16 on Date: 11/07/16 0:00 ceived: 11/08/16 15:25			
ColumnID: Rtx-VMS Revision: 12/28/16 9:33 Col Type:	%Moisture: TestCode: 82	60W OLM42	BatchNo: FileID:]	R30630 1-SAMP-n49	94.D	
Analyte	Result Qua	l PQL	MDL	Unit	s DF	Date Analyzed	
VOLATILE ORGANIC COMPO	UNDS BY GC/MS			SW8	260C/5030C		
Dichlorodifluoromethane	ND	1.00	0.10	µg/L	1	11/09/16 12:59	
Chloromethane	ND	1.00	0.33	µg/L	1	11/09/16 12:59	
Vinyl chloride	ND	1.00	0.33	µg/L	1	11/09/16 12:59	
Bromomethane	ND	1.00	0.33	μg/L	1	11/09/16 12:59	
Chloroethane	6.56	1.00	0.33	µg/L	1	11/09/16 12:59	
Trichlorofluoromethane	ND	1.00	0.10	µg/L	1	11/09/16 12:59	
1,1-Dichloroethene	, ND	0.50	0.16	µg/L	1	11/09/16 12:59	
1,1,2-Trichloro-1,2,2- trifluoroethane	MAND	0.50	0.10	µg/L	• 1	11/09/16 12:59	
Acetone	Wer 184 JF	10.0 <i>(</i> /	1.00	µg/L	1	11/09/16 12:59	
Carbon disulfide	2. M J ND	0.50	0.11	µg/L	1	11/09/16 12:59	
Methyl acetate OM	λ nD	5.00	1.00	µg/L	1	11/09/16 12:59	
Methylene chloride	alt ND	2.00	0.16	µg/L	1	11/09/16 12:59	
trans-1,2-Dichloroethene		0.50	0.10	µg/L	1	11/09/16 12:59	
Methyl tert-butyl ether 🧄	ND ND	1. 0 0	0.16	μg/L	1	11/09/16 12:59	
1,1-Dichloroethane	, ND	0.50	0.10	µg/L	1	11/09/16 12:59	
cis-1,2-Dichloroethene	ND	0.50	0.10	µg/L	1	11/09/16 12:59	
2-Butanone	ND	10.0	1.00	µg/L	1	11/09/16 12:59	
Chloroform	0.10 J	0.50	0.10	µg/L	1	11/09/16 12:59	
1,1,1-Trichloroethane	ND	0.50	0.10	µg/L	· 1	11/09/16 12:59	
Cyclohexane	1.84	0.50	0.10	µg/L	1	11/09/16 12:59	
Carbon tetrachloride	ND	0.50	0.10	µg/L	1	11/09/16 12:59	
Benzene	0.87	0.50	0.10	µg/L	. 1	11/09/16 12:59	
1,2-Dichloroethane	ND .	0.50	0.16	µg/L	1	11/09/16 12:59	
Trichloroethene	ND	0.50	0.10	µg/L	. 1	13/09/16 12:59	
Methylcyclohexane	ND	0.50	0.10	µg/L	. 1	11/09/16 12:59	
1,2-Dichloropropane	ND	0.50	0.16	µg/L	. 1	11/09/16 12:59	
Bromodichloromethane	ND	0.50	0.10	µg/L	. 1	11/09/16 12:59	
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	.]	11/09/16 12:59	
4-Methyl-2-pentanone	ND	5.00	1.00	µg/L	, 1	11/03/10 12:59	
Toluene	0.27 J	0.50	0.10	μg/L	, 1 ,	11/09/10 12:09	
trans-1,3-Dichloropropene	ND	0.50	0.16	µg/L	. !	11/00/16 49-50	
1,1,2-Trichloroethane	ND	0.50	0.10	µg/L	, I -{	11/09/16 12:59	
Tetrachloroethene	NU	0.50	0.10	µy/L vo/i	. '	11/09/16 12:59	
2-Hexanone	ND	5.00	U.UU	hâ\r	. I		
Qualifiers: * Value may exc	eed the Acceptable Level		B Analyte	detected it	n the associated l	Method Blank	
E Value exceeds	the instrument calibration ran	nge	H Holding	g times for	preparation or an	alysis exceeded	
J Analyte detecte	ed below the PQL		ND Not De	tected at the	e Practical Quan	intation Limit (PQL)	
P Prim./Conf. col	lumn %D or RPD exceeds lin	nit	S Spike P	Lecovery ou	uside accepted r	covery mmts	
Print Date: 12/30/16 9:45	807155 Proje	ct Supervisor	: David J Prie	chard			

Project Supervisor: David J Prichard

Life Science Laboratories, Inc.

1,2-Dibromo-3-chloropropane

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

1,2,4-Trichlorobenzene

Surr: Toluene-d8

Analytical Results

11/09/16 12:59

11/09/16 12:59

11/09/16 12:59

11/09/16 12:59

11/09/16 12:59

1.

1

1

1

1

µg/L

μg/L

%REC

%REC

%REC

E	ast Syracuse, NY 13	057 (315)		State	StateCertNo: 10248			
CLIENT: Project:	O'Brien & Gere Oper PAS Oswego-Semi-A	ations, LLC nnual Well Samp	ling	Lab ID: Client Samp	K1 ole ID: X-	611090- 1 11/7/1	003A 6	
W Order: Matrix: Inst. ID: ColumnID:	K1611090 WATER Q MSN 76 Rtx-VMS	Sample Size: %Moisture:	10 mL	Collection E Date Receiv PrepDate: BatchNo:	Date: 11/ red: 11/ R3(11/07/16 0:00 11/08/16 15:25 R30630		
Revision: Col Type:	12/28/16 9:33	TestCode:	8260W OLM42	FileD:	1-S	AMP-n49	994.D	
Analyte		Result Q	ual PQL	MDL	Units	DF	Date Analyzed	
VOLATILE		SW826	0C/5030C	:				
Dibromochlor	omethane	ND	0.50	0.10	µg/L	1	11/09/16 12:59	
1.2-Dibromoe	thane	ND	0.50	0.16	µg/L	1	11/09/16 12:59	
Chlorobenzen	ne	17.2	0.50	0.10	µg/L	1	11/09/16 12:59	
Ethylbenzene	2	ND	0.50	0.10	µg/L	1	11/09/16 12:59	
Xvienes (total)	ND	1.00	0.30	µg/L	1	11/09/16 12:59	
Styrene	•	ND	0.50	0.10	µg/⊾	1	11/09/16 12:59	
Bromoform		ND	1.00	0.33	µg/L	1	11/09/16 12:59	
Isopropylbenz	zene	0.83	0.50	0.10	µg/L	1	11/09/16 12:59	
1.1.2.2-Tetra	chloroethane	ND	0.50	0.10	μg/L	1	11/09/16 12:59	
1 3-Dichlorob	enzene	ND	0.50	0.10	µg/L	1	11/09/16 12:59	
1.4-Dichlorob	enzene	0.97	0.50	0.16	µg/L	1	11/09/16 12:59	
1.2-Dichlorob	enzene	0.63	0.50	0.10	μg/L	1	11/09/16 12:59	

ND

ND

108

102

98

5.00

1.00

75-130

75-125

75-125

1.00

0.10

0.16

0.10

0.10

O	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
E E		Value exceeds the instrument calibration tange		Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	NÐ	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits
				1170.1.1

Print Date: 12/30/16 9:45 807155 Project Supervisor: David J Prichard

E	ast Syracuse, N	Y 13057	(315) 44	5-1900		State	CertNo:	10248
CLIENT:	O'Brien & Gere	Operations, I	LC		Lab ID:	K1	611090-0	004A
Project:	PAS Oswego-S	emi-Annual W	/ell Samplir	ıg	Client Sam	ple ID: Lh	-8 11/7/	16
W Order:	K1611090				Collection]	Date: 11/	07/16 12::	50
Matrix:	WATER				Date Receiv	ved: 11/	08/16 15:	25
Inst. D:	MSN 76	Sam	ple Size: 10) mL	PrepDate:			
ColumnID:	Rtx-VMS	%M	loisture:		BatchNo:	R3(0630	
Revision:	12/28/16 9:33	Test	Code: 82	260W OLM42	FileID:	1-S	AMP-n49	95.D
Col Type:								
Analyte			Result Qu	al PQL	MDL	Units	DF	Date Analyzed
	ORGANIC COM	OUNDS BY	GC/MS			SW826	0C/5030C	
Dichlorodifluo	romethane		ND	1.00	0.10	µg/L	1	11/09/16 13:31
Chloromethan	e		ND	1.00	0.33	µg/L	1	11/09/16 13:31
Vinyl chloride			ND	1.00	0.33	μg/L	1	11/09/16 13:31
Bromomethan	16	-	ND	1.00	0.33	µg/L	1	11/09/16 13:31
Chloroethane			5.64	1.00	0.33	µg/L	1	11/09/16 13:31
Trichlorofluoro	omethane	``	ND	1.00	0.10	µg/L	1	11/09/16 13:31
l,1-Dichloroet	thene	ha	ND	0.50	0.16	µg/L	1	11/09/16 13:31
1,1,2-Trichloro rifluoroethane	o-1,2,2- a	b.	ND	0.50	0.10	μg/L	1	11/09/16 13:31
Acetone		10	1.95 J +	- 10.0	1.00	µg/L	1	11/09/16 13:31
Carbon disulfi	de	7 2	ND	0.50	0.11	µg/L	1	11/09/16 13:31
viethyl acetat	е	5 6	ND	5.00	1.00	µg/L	1	11/09/16 13:31
Viethylene chi	loride	n tr		2.00	0.16	µg/L	1	11/09/16 13:31
rans-1,2-Dich	nloroethene		ND	0.50	0.10	µg/L	1	11/09/16 13:31
vlethyl tert-bu	ityl ether	NO V	ND	1.00	0.16	µg/L	1	11/09/16 13:31
1,1-Dichloroe	thane		0.17 J	0.50	0.10	µg/L	1	11/09/16 13:31
cis-1,2-Dichlo	roethene	Nº G	> ND	0.50	0.10	µg/r_	1	11/00/10 13.31
2-Butanone		<u> </u>	ND	10.0	1.00	µg/L	1	11/09/10 13:31
Chloroform		$\cdot \mathbf{O}^{\mathbf{R}}$	NÐ	0.50	0.10	µg/L	. 1	14/00/16 13:31
1,1,1-Trichlon	oethane	Ú.	ND	0.50	0.10	µg/L	1	11/09/16 13:31
Cyclohexane			3.49	0.50	0.10	µg/L us/l	1 1	11/09/16 13:31
Carbon tetrac	chloride		ND	0.50	0.10	µg/L ug/l	1	11/09/16 13:31
Benzene	4		2.90	0.50	0.10	ug/L	1	11/09/16 13:31
1,2-Dicnioroe				0.50	0.10	uo/l	1	11/09/16 13:31
I richioroethe	ne ······		0.24	0.00	0.10	на/I	1	11/09/16 13:31
Methylcyclon	exane		0.313	0.50	0.16	un/l	1	11/09/16 13:31
1,2-Dichlorop	ropane			0.50	0.10	19/2 10//	1	11/09/16 13:31
			אט מא	0.50	0.16	uo/L	1	11/09/16 13:31
A Mothul 2 -	noproperie		ND	5.00	1.00	ua/L	1	11/09/16 13:31
-rwouryi-∠-ρt Tolueze	3110110110		0.42.1	0.50	0.10	µa/L	1	11/09/16 13:31
frans-1 3-Die	hloropropere		ND	0.50	0.16	µg/L	1	11/09/16 13:31
1 1 2-Trichio	roethane		ND	0.50	0.16	µg/L	1	11/09/16 13:31
Tetrachlome	thene		ND	0.50	0.10	µg/L	1	11/09/16 13:31
2-Hexanone			ND	5.00	1.00	µg/L	1	11/09/16 13:31
Onelificator	* Value may	exceed the Accer	otable Level	·· · ·	B Analyt	e detected in th	e associated	Method Blank
Quantitis:	E Value exce	eds the instrumer	nt calibration r	inge	H Holdin	g times for pre	paration or a	nalysis exceeded
	J Analyte det	tected below the l	PQL		ND Not De	tected at the P	ractical Qua	ntitation Limit (PQL)
	P Prim./Conf	f. column %D or l	RPD exceeds I	imit	S Spike]	Recovery outsi	de accepted i	recovery mains

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Life Science Laboratories, Inc.

Analytical Results

E	ast Syracuse, NY 1305	7 (315)	445-1900	5	StateCertNo: 10248
CLIENT: Project:	O'Brien & Gere Operat PAS Oswego-Semi-Am	ions, LLC rual Well Samp	ling	Lab ID: Client Sample ID:	K1611090-004A LR-8 11/7/16
W Order: Matrix:	K1611090 WATER MSN 76	Sampla Sizar	10 mI	Collection Date: Date Received: PrenDate:	11/07/16 12:50 11/08/16 15:25
Inst. ID: ColumnID: Revision:	MSN 76 Rtx-VMS 12/28/16 9:33	Sample Size: %Moisture: TestCode:	8260W OLM42	BatchNo: FileID:	R30630 1-SAMP-n4995.D

Analyte	Result Qua	MDL	Units	DF	Date Analyzed	
VOLATILE ORGANIC COMPOUND	S BY GC/MS			SW826	0C/5030C	;
Dibromochloromethane	ND	0.50	0.10	µg/L	1	11/09/16 13:31
1.2-Dibromoethane	ND	0.50	0.16	µg/L	1	11/09/16 13:31
Chlorobenzene	17.3	0,50	0.10	µg/L	1	11/09/16 13:31
Ethylbenzene	ND	0.50	0.10	µg/L	1	11/09/16 13:31
Xvienes (total)	0.50 J	1.00	0.30	µg/L	1	11/09/16 13:31
Styrene	ND	0.50	0.10	µg/L	1	11/09/16 13:31
Bromoform	ND	1.00	0.33	µg/L	1	11/09/16 13:31
Isopropyibenzene	1.20	0.50	0.10	µg/L	1	11/09/16 13:31
1 1 2 2-Tetrachioroethane	ND	0.50	0.10	μg/L	1	11/09/16 13:31
1.3-Dichlorobenzerie	0.15 J	0.50	0.10	µg/L	1	11/09/16 13:31
1 4-Dichlorobenzene	0.97	0.50	0.16	ug/L	1	11/09/16 13:31
1.2-Dichlorobenzene	0.76	0.50	0.10	μg/L	1	11/09/16 13:31
1.2-Bibromo-3-chloropropage	ND	5.00	1.00	ug/L	1	11/09/16 13:31
4 A Trichlorobenzene		1.00	0 10	ug/L	1	11/09/16 13:31
Curr 1.2 Dichleranthana d4	100	75-130	0.16	%REC	1	11/09/16 13:31
our, 1,2-Dignoroeutarie-04	105	75-100	0.10	%REC	1	11/09/16 13:31
Surr: 4-Bromofluorobenzene	96	75-125	0.10	%REC	1	11/09/16 13:31

				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Qualifiere	*	Value may exceed the Acceptable Level	в	Analyte detected in the associated Method Blank
Quantities.	Е	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits
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Print Date: 12/30/16 9:45 807156 Project Supervisor: David J Prichard
CLIFENT: O'Brien & Gere Operations, LLC Lab ID: K1611090-005A CLIFENT: O'Brien & Gere Operations, LLC O'Brien & Gere Operations, LLC O'Brien & Gere Operations, LLC W Order: K1611090 O'D-3 LL7/716 O'D-3 LL7/716 Worder: K1611090 O'Brien & Gere Operations, LLC Data Received: 11/07/16 14:20 Matrix: WATER Sample Size: 10 mL PrepDate: Bate/No: R30630 ColumnD: Rk-VMS %Moisture: Bate/No: R30630 Collarype: Result Qual PQL MDL Units DF Date Analyze Colocodificonomentane ND 1.00 0.10 µgL 1 11/02/16 14:03 Chicomentane ND 1.00 0.33 µgL 1 <th>LIJL 5854 East</th> <th>a Butternut Drive t Svracuse. NY 1305</th> <th>7 (315) 445</th> <th>-1900</th> <th></th> <th>State</th> <th>CertNo:</th> <th>10248</th>	LIJL 5854 East	a Butternut Drive t Svracuse. NY 1305	7 (315) 445	-1900		State	CertNo:	10248
Client Source Other of the product of the	CLIENT. C	Brien & Gere Operati	ons. LLC		Lab ID:	K1	611090-	005A
Collection Date: 11/07/16 14:20 Worder: K1611090 Collection Date: 11/07/16 14:20 Matrix: WATER Date Received: 11/07/16 14:20 Matrix: WATER BatchNo: R30630 ColloamaD: Rsviso: 12/28/16 9:33 TestCode: 8260W OL/M42 PrepDate: BatchNo: I/22/16 9:33 TestCode: 8260W OL/M42 PiliD: 1-SAMP-p4996.D Collocodinuo methane ND 1.00 0.10 µgf. 1 11/02/16 14:20 Manayte Result Qual PQL MDL Units DF Date Analyze Collocodinuoromethane ND 1.00 0.10 µgf. 1 11/02/16 14:03 Strongentiane ND 1.00 0.33 µgf. 1 11/02/16 14:03 Strongentiane ND 1.00 0.33 µgf. 1 11/02/16 14:03 Strongentiane ND 1.00 0.33 µgf. 1 11/02/16 14:03 Chiocordinne ND 0.050 <th>Deciset: D</th> <th>AS Oswego-Semi-Anr</th> <th>mal Well Sampling</th> <th>2</th> <th>Client Samp</th> <th>le ID: OL</th> <th>)-<i>3 11/7</i></th> <th>/16</th>	Deciset: D	AS Oswego-Semi-Anr	mal Well Sampling	2	Client Samp	le ID: OL)- <i>3 11/7</i>	/16
Worder: Kild 1090 Date Received: 11/08/16 15:25 Tinst. D: MSN 76 Sample Size: 10 mL PrepDate: R30630 ColumnID: Ro-VMS %Moisture: BatchNo: R30630 Col TestCode: 8260W OLM42 FileID: 1:SAMP=u4996.D Analyte Result Qual PQL MDL Units DF Date Analyze Analyte Result Qual PQL MDL Units DF Date Analyze Col Type: Analyte Result Qual PQL MDL Units DF Date Analyze Colorestination ND 1.00 0.33 µg/L 1 11/09/16 14:03 Semomethane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Chicroethane ND 0.65 0.16 µg/L 1 11/09/16 14:03 Chicroethane ND 0.65 0.10 µg/L 1 11/09/16 14:03 Chicroethane ND 0.65 0.10 µg/L 1 11/09/16	riojecti i			2	Collection D	ate: 11/	07/16 14:	20
Matrix WATER Data Data Support ColumnD1: Rex-VMS %Moisture: BatchNo: R30630 Revision: 1/2/8/16 9:33 TestCode: 8260W OLM42 FileID: 1-SAMP=n4996.D Analyte Result Qual PQL MDL Units DF Date Analyze Analyte Result Qual PQL MDL Units DF Date Analyze Colomentane ND 1.00 0.33 µg/L 1 1109716 14:03 Chicomethane ND 1.00 0.33 µg/L 1 1109716 14:03 Chicomethane ND 1.00 0.33 µg/L 1 1109716 14:03 Chicomethane ND 0.050 0.16 µg/L 1 1109716 14:03 Trichloroflucornethane ND 0.50 0.16 µg/L 1 1109716 14:03 Trichloroflucornethane ND 0.50 0.10 µg/L 1 1109716 14:03 Trichloroflucornethane ND 0.50 0.10	W Order: K	1611090			Date Receiv	ed: 11/	08/16 15:	25
Inst. D: MSN 76 Sample Size in Unit. Inst. Dir. R30630 Collmann D: Kx-VMS YeMolositure: BatchNo: ISAMP-n4996.D Coll Type: Analyte Revision: 12/28/16 9:33 TestCode: 8260W OLM42 FileID: ISAMP-n4996.D Coll Type: MDL Units DF Date Analyze Coll Type: ND 1.00 0.10 µg/L 1 1100/16 14:03 Dehoroffiltoremethane ND 1.00 0.33 µg/L 1 1100/16 14:03 Semomethane ND 1.00 0.33 µg/L 1 1100/16 14:03 Semomethane ND 1.00 0.33 µg/L 1 110/0716 14:03 Chioroffiltoromethane ND 0.50 0.10 µg/L 1 110/0716 14:03 1.1.2:Trichtoro.1,2.2: ND 0.50 0.10 µg/L 1 110/0716 14:03 Mathylene thioride ND 0.50 0.10 µg/L 1 110/0716 14:03	Matrix: V	VATER	G L Since 10	T	PrenDate:			
Column11): RG-VMIS yerrors yerrors the second werror werror werrors the second werror werror werrors werrowerro	Inst. ID: N	ASN 76	Sample Size: 10	mL	RatchNo:	· R3()630	
Revision: 12/28/10 9:35 TestCute: BOOW CLIFE: MDL Units DF Date Analyze Analyte Result Qual PQL MDL Units DF Date Analyze Analyte Result Qual PQL MDL Units DF Date Analyze Option: ND 1.00 0.10 µgL 1 11/09/16 14:03 Chicomethane ND 1.00 0.33 µgL 1 11/09/16 14:03 Chicorethane ND 1.00 0.33 µgL 1 11/09/16 14:03 Bromomethane ND 1.00 0.33 µgL 1 11/09/16 14:03 Chicroethane ND 0.50 0.16 µgL 1 11/09/16 14:03 1.1-Dichloroethane ND 0.50 0.11 µgL 1 11/09/16 14:03 Acelone ND 0.50 0.10 µgL 1 11/09/16 14:03 Methylacetate ND 0.50 0.10 µgL 1 11/09/16 14:03 <th>ColumnID: R</th> <th>(tx-VMS</th> <th>TestCoder 87</th> <th>OW OT MAY</th> <th>FileID:</th> <th>1-8</th> <th>AMP-n49</th> <th>996.D</th>	ColumnID: R	(tx-VMS	TestCoder 87	OW OT MAY	FileID:	1-8	AMP-n49	996.D
Col Type: Result Qual PQL MDL Units DF Date Analyze Analyte Result Qual PQL MDL Units DF Date Analyze VOLATLE ORGANIC COMPOUNDS BY GC/MS SW8280C/56030C SW8280C/56030C Dichordifucomeshane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Viny chorde ND 1.00 0.33 µg/L 1 11/09/16 14:03 Simomeshane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Chicroethane 6.21 1.00 0.33 µg/L 1 11/09/16 14:03 Trichlorofucomethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Trichlorofucomethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Trichlorofucomethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Acstone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylare chorde ND	Revision: 1	2/28/10 9:33	resicute: 62	00 W OL10142	THELE			
Analyte Result Qual PQL MDL Onits Discretification VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8280C/56030C Dichorodiflucromethane ND 1.00 0.13 µg/L 1 11/09/16 14:03 Olichorodiflucromethane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Viny choride ND 1.00 0.33 µg/L 1 11/09/16 14:03 Smoomethane 0.21 1.00 0.33 µg/L 1 11/09/16 14:03 Chioroethane 6.21 1.00 0.33 µg/L 1 11/09/16 14:03 Trichloroflucromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Acatone ND 0.50 0.11 µg/L 1 11/09/16 14:03 Mathyl acetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Mathyl acetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Mathyl acetate ND 0.50<	Col Type:					x134		Date Analyzed
VOLATLE ORGANIC COMPOUNDS BY GC/MS SW220L0400C Dichiordifluoromethane ND 1.00 0.10 µg/L 1 11/09/16 14:03 Olchiordifluoromethane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Viny choldid ND 1.00 0.33 µg/L 1 11/09/16 14:03 Bromomethane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Choroethane ND 1.00 0.33 µg/L 1 11/09/16 14:03 Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Trichloroethane ND 0.50 0.11 µg/L 1 11/09/16 14:03 Accione ND 0.50 0.10 µg/L 1 11/09/16 14:03 Mathyl acetate ND 5.00 1.00 µg/L 1 11/09/16 14:03 Trichiorothane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Trichiorothane ND	Analyte		Result Qua	I PQL	MDL	Units		Date Analyzed
Dichloroditucromethane ND 1.00 0.13 µg/L 1 11/06/16 14.03 Chioromethane ND 1.00 0.33 µg/L 1 11/06/16 14.03 Sromomethane ND 1.00 0.33 µg/L 1 11/06/16 14.03 Sromomethane ND 1.00 0.33 µg/L 1 11/06/16 14.03 Chioroethane ND 1.00 0.33 µg/L 1 11/06/16 14.03 Trichlorofucomethane ND 0.50 0.16 µg/L 1 11/09/16 14.03 Acatone ND 0.50 0.10 µg/L 1 11/09/16 14.03 Acatone ND 0.50 0.11 µg/L 1 11/09/16 14.03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylacetale ND 5.00 0.10 µg/L 1 11/09/16 14.03 Methylacetale ND 0.50 0.10 µg/L 1 11/09/16 14.03 </td <td>VOLATILE OF</td> <td>RGANIC COMPOUND</td> <td>S BY GC/MS</td> <td></td> <td></td> <td>599826</td> <td>4</td> <td>11/09/16 14:03</td>	VOLATILE OF	RGANIC COMPOUND	S BY GC/MS			599826	4	11/09/16 14:03
Chiocomethane ND 1.00 0.33 µg/L 1 11/09/16 14.03 Vinyl chloride ND 1.00 0.33 µg/L 1 11/09/16 14.03 Semomethane 6.21 1.00 0.33 µg/L 1 11/09/16 14.03 Trichlorofluoromethane ND 1.00 0.33 µg/L 1 11/09/16 14.03 Trichlorofluoromethane ND 0.50 0.16 µg/L 1 11/09/16 14.03 1.1.2-Trichloro-1.2.2- ND 0.50 0.11 µg/L 1 11/09/16 14.03 Carbon disulfde ND 0.50 0.11 µg/L 1 11/09/16 14.03 Methyl actelate ND 0.50 0.10 µg/L 1 11/09/16 14.03 Methyl actolate ND 0.50 0.10 µg/L 1 11/09/16 14.03 Methyl actolate ND 0.50 0.10 µg/L 1 11/09/16 14.03 Carbon disulfde ND 0.50 0.10 µg/L <t< td=""><td>Dichlorodifluoror</td><td>methane</td><td>ND</td><td>1.00</td><td>0.10</td><td>µg/L</td><td>1 -1</td><td>11/09/16 14:03</td></t<>	Dichlorodifluoror	methane	ND	1.00	0.10	µg/L	1 -1	11/09/16 14:03
Viny choide ND 1.00 L.33 µg/L 1 11/09/16 1.4.03 Bromomethane ND 1.00 0.33 µg/L 1 11/09/16 14.03 Trichloroftnare ND 1.00 0.33 µg/L 1 11/09/16 14.03 Trichloroftnare ND 1.00 0.10 µg/L 1 11/09/16 14.03 1.1-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14.03 Acsione ND 0.50 0.11 µg/L 1 11/09/16 14.03 Methylacetaic ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylacetaic ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylacetaic ND 0.50 0.10 µg/L 1 11/09/16 14.03 Scinchize ND 0.50 0.10 µg/L 1 11/09/16 14.03 <tr< td=""><td>Chloromethane</td><td></td><td>ND</td><td>1.00</td><td>0.33</td><td>µg/L</td><td>1 1</td><td>11/09/16 14:03</td></tr<>	Chloromethane		ND	1.00	0.33	µg/L	1 1	11/09/16 14:03
Bromomethane ND 1.00 0.33 µg/L 1 11/03/16 14.03 Chiorosthane 6.21 1.00 0.33 µg/L 1 11/09/16 14.03 Tichloroftuoromethane ND 0.50 0.16 µg/L 1 11/09/16 14.03 1.1.2.Trichtoro-1.2.2- ND 0.50 0.10 µg/L 1 11/09/16 14.03 Carbon disulfide ND 0.50 0.10 µg/L 1 11/09/16 14.03 Carbon disulfide ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylene chloride ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylene chloride ND 0.50 0.10 µg/L 1 11/09/16 14.03 Methylene chloride ND 0.50 0.10 µg/L 1 11/09/16 14.03 L-1.2:Dichloroethane ND 0.50 0.10 µg/L 1 11/09/	Vinyl chloride		ND	1.00	0.33	µg/L	1	11/09/16 14:03
Chicorethane 6.21 1.00 0.03 µg/L 1 1100/16 14:03 Trichlorofluoromethane ND 1.00 0.00 µg/L 1 1100/16 14:03 1.1_2:Trichloro-1,2,2- ND 0.50 0.10 µg/L 1 11/09/16 14:03 1.1_2:Trichloro-1,2,2- ND 0.50 0.10 µg/L 1 11/09/16 14:03 Acatone ND 1.00 1.00 µg/L 1 11/09/16 14:03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14:03 Attribute ND 0.50 0.10 µg/L 1 11/09/16 14:03 Attribute ND 0.50 0.10 µg/L 1 11/09/16 14:03 Attribute ND 0.50 0.10 µg/L 1 11/09/16	Bromomethane		ND	1.00	0.33	µg/⊾ ⊳a/I	1	11/09/16 14:03
Tichlorofuoromethane ND 1.00 0.10 µg/L 1 1100/16 14.03 1,1-Dichloroethene ND 0.50 0.16 µg/L 1 1109/16 14.03 1,2-Trichloroethane ND 0.50 0.10 µg/L 1 1109/16 14.03 Acetone ND 0.50 0.11 µg/L 1 1109/16 14.03 Acetone ND 0.50 0.11 µg/L 1 1109/16 14.03 Methylacetate ND 5.00 1.00 µg/L 1 1109/16 14.03 Methylacetate ND 5.00 0.16 µg/L 1 1109/16 14.03 Methylacetate ND 0.50 0.16 µg/L 1 1109/16 14.03 Trichloroethane ND 0.50 0.10 µg/L 1 1109/16 14.03 1,1-Dichloroethane ND 0.50 0.10 µg/L 1 1109/16 14.03 1,1-Trichloroethane ND 0.50 0.10 µg/L 1 1109/16	Chloroethane		6.21	1.00	0.33	hâir	י ז	11/09/16 14:03
1,1-Dichloroethene ND 0.56 0.16 µg/L 1 10/09/16 14.02 1,1_2-Trichloro-1,2,2- ND 0.50 0.10 µg/L 1 10/09/16 14.03 Carbon disulfide ND 0.50 0.11 µg/L 1 11/09/16 14.03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14.03 Methylene chloride ND 0.50 0.16 µg/L 1 11/09/16 14.03 Methylene chloride ND 0.50 0.10 µg/L 1 11/09/16 14.03 Methylene chloride ND 0.50 0.10 µg/L 1 11/09/16 14.03 Cis-12-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14.03 Cyclonexane ND 0.50 0.10 µg/L 1 11/09/16 14.03 1,2-Dichloroethane ND 0.50 0.10 µg/L<	Trichlorofluorom	nethane	ND	1.00	0.10	µg/L	1	11/09/16 14:03
1,1,2-Trichloro-1,2,2- ND 0.50 0.10 µµ/L 1 11/09/16 14:03 Carbon disulfide ND 0.50 0.10 µµ/L 1 11/09/16 14:03 Methyla cetate ND 5.00 1.00 µµ/L 1 11/09/16 14:03 Methyla cetate ND 2.00 0.16 µµ/L 1 11/09/16 14:03 trans-1,2-Dichloroethene ND 0.50 0.10 µµ/L 1 11/09/16 14:03 trans-1,2-Dichloroethene ND 0.50 0.10 µµ/L 1 11/09/16 14:03 cis-1,2-Dichloroethane 0.41+J 0.50 0.10 µµ/L 1 11/09/16 14:03 cis-1,2-Dichloroethane 0.41+J 0.50 0.10 µµ/L 1 11/09/16 14:03 cis-1,2-Dichloroethane ND 0.50 0.10 µµ/L 1 11/09/16 14:03 cis-1,2-Dichloroethane ND 0.50 0.10 µµ/L 1 11/09/16 14:03 cis-1,2-Dichloroethane ND 0.50 0.10 µµ/L 1 11/09/16 14:03 cyclokasae <	1,1-Dichloroethe	ene	ND	0.50	0.16	µy/L wa/l	1	11/09/16 14:03
Influcements ND 10.0 1.00 µg/L 1 11/09/16 14:03 Acetone ND 0.50 0.11 µg/L 1 11/09/16 14:03 Methylacetale ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetale ND 5.00 0.16 µg/L 1 11/09/16 14:03 Methylacetale ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylacetale ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylacetale ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cals-12-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 L2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 L2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16	1,1,2-Trichloro-	1,2,2-	ND	0.50	0.10	hair	•	
Accord ND 0.50 0.11 µg/L 1 11/09/16 14:03 Methylacetate ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetate ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetate ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methylacetate ND 5.00 0.10 µg/L 1 11/09/16 14:03 Methylacetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Alt-J 0.50 0.10 µg/L 1 11/09/16 14:03 Z-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Chioroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1_2-Dichloroethane	trifluoroethane		ND	10.0	1.00	µg/L	1	11/09/16 14:03
Carbon distincte ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methyla cetate ND 5.00 1.00 µg/L 1 11/09/16 14:03 Methyla cetate ND 2.00 0.16 µg/L 1 11/09/16 14:03 Methyla cetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methyla cetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylacetate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Sis1_2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Carbon tetrachloride ND 0.50 0.10 µg/L 1 11	Acetone		ND	0.50	0.11	µg/L	1	11/09/16 14:03
Marthyle active ND 2.00 0.16 µg/L 1 11/09/16 14:03 Methylene chloride ND 0.200 0.16 µg/L 1 11/09/16 14:03 Methylene chloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methyler t-butyl ether ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methyler t-butyl ether 0.444 0.50 0.10 µg/L 1 11/09/16 14:03 Chloroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L	Carbon disumo	3	ND	5.00	1.00	µg/L	1	11/09/16 14:03
Note there ND 0.50 0.10 µg/L 1 11/09/16 14:03 trans-1,2-Dichloroethene ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,1-Dichloroethane Q44H J 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Chioroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloropthane ND 0.50 0.10 µg/L 1 11/09/	Methyl acetate	-1-1-	ND ND	2.00	0.16	µg/L	1	11/09/16 14:03
trans-1,2-Dichloroethene M ND 1.00 0.16 µg/L 1 11/09/16 14:03 Methyl tert-butyl ether ND 0.50 0.10 µg/L 1 11/09/16 14:03 cis-1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Chorotethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 <td>Wetnylene chio</td> <td>nue</td> <td></td> <td>0.50</td> <td>0.10</td> <td>μg/L</td> <td>1</td> <td>11/09/16 14:03</td>	Wetnylene chio	nue		0.50	0.10	μg/L	1	11/09/16 14:03
Member Part-Duty refer Member Part-Duty refer Member Part-Duty refer 11/09/16 14:03 1,1-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Chloroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 12-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 12-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 12-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03	trans-1,2-Dicnic	voetnene	NO ND	1.00	0.16	μg/L	1	11/09/16 14:03
1, 1-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Renzene ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L	Methyl tert-bury			0.50 1.4	0.10	μg/L	1	11/09/16 14:03
Clish 2-Dichloroentarie ND 1.00 µg/L 1 11/09/16 14:03 2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Chloroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Benzene 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/	1,1-Dichloroeth	ane	N ND	0.50	0.10	μg/L	1	11/09/16 14:03
2-Butanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Chloroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 1,1-Trichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Benzene 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Trichtoroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Remotichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Ice-1,3-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Ice-1,2-Dichloropropane ND 0.50 0.16 µg/L 1<	CIS-1,2-DICRIOTO	etrene		10.0	1.00	μg/L	. 1	11/09/16 14:03
Chloroform ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.50 0.10 µg/L 1 11/09/16 14:03 Benzene 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 J_2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Methylcyclohexane .0.48 J 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Bromodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 cis-1,3-Dichloropropene ND 0.50 0.16 µg/L 1	Z-Butanone	$\sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim \sim $		0.50	0.10	μg/L	1	11/09/16 14:03
1,1-1-11 1.11 1.81 0.50 0.10 µg/L 1 11/09/16 14:03 Cyclohexane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Benzene 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 Senzene 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Methylcyclohexane .0.48-J 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.10 µg/L 1 11/09/16 14:03 14/09/16 10.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropene ND 0.50 0.10 µg/L 1	Chlorolonni	thoma		0.50	0.10	µg/L	1	11/09/16 14:03
Cyclonexate W A ND 0.50 0.10 µg/L 1 11/09/16 14:03 Carbon tetrachloride ND 0.85 0.50 0.10 µg/L 1 11/09/16 14:03 Benzene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Methylcyclohexane .0-48-J 0.50 0.10 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 8romodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 6is-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND <td< td=""><td>1, I, I- Mcholos</td><td></td><td>181</td><td>0.50</td><td>0.10</td><td>µg/L</td><td>1</td><td>11/09/16 14:03</td></td<>	1, I, I- Mcholos		181	0.50	0.10	µg/L	1	11/09/16 14:03
Carbon defaction defaction de 3° 1.65 1.00 <td>Cyclonexane Cochor tetrach</td> <td>W_{0}</td> <td>ND ND</td> <td>0.50</td> <td>0.10</td> <td>μg/L</td> <td>1</td> <td>11/09/16 14:03</td>	Cyclonexane Cochor tetrach	W_{0}	ND ND	0.50	0.10	μg/L	1	11/09/16 14:03
Benzene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Trichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylcyclohexane .0.18-J 0.50 0.10 µg/L 1 11/09/16 14:03 1, 2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 8romodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 8romodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 6is-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 0.50 0.16 µg/L 1 11/09/16 14:03 7 cluene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1, 1, 2-Trichloroethane ND 0.50 0.10 µg/L<	Carbon tetracti		\ 0.85	0.50	0.10	µg/L	1	11/09/16 14:03
1,2-Dichlordeniate ND 0.50 0.10 µg/L 1 11/09/16 14:03 Methylcyclohexane .0,48-J 0.50 (J 0.10 µg/L 1 11/09/16 14:03 1, 2-Dichloropropane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Bromodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Gis-1, 3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Toluene 0.26 J 0.50 0.16 µg/L 1 11/09/16 14:03 1, 1, 2-Trichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1, 1, 2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 </td <td>1 2 Dieblarooth</td> <td>V V</td> <td>ND</td> <td>0.50</td> <td>0.16</td> <td>µg/L</td> <td>1</td> <td>11/09/16 14:03</td>	1 2 Dieblarooth	V V	ND	0.50	0.16	µg/L	1	11/09/16 14:03
Methylcyclohexane $O.48 J$ 0.50 (1) 0.10 ug/L 1 $11/09/16$ 14.03 1,2-DichloropropaneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 BromodichloromethaneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 BromodichloromethaneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 cis-1,3-DichloropropeneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 4-Methyl-2-pentanoneND 5.00 1.00 ug/L 1 $11/09/16$ 14.03 Toluene $0.26 J$ 0.50 0.16 ug/L 1 $11/09/16$ 14.03 trans-1,3-DichloropropeneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 $1,1,2$ -TrichloroethaneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 $1,1,2$ -TrichloroethaneND 0.50 0.16 ug/L 1 $11/09/16$ 14.03 2 -HexanoneND 0.50 0.10 ug/L 1 $11/09/16$ 14.03 2 -HexanoneND 5.00 1.00 ug/L 1 $11/09/16$ 14.03 2 -HexanoneND 5.00 1.00 ug/L 1 $11/09/16$ 14.03 2 -HexanoneND 5.00 1.00 ug/L 1 $11/09/16$ 14.03 2 -HexanoneND 5.00 1.00 u	Trichlaroothen		ND	0.50	0.10	μg/L	1	11/09/16 14:03
Memylodulexale ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,2-Dichloropropane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Bromodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 cis-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Toluene 0.26 J 0.50 0.16 µg/L 1 11/09/16 14:03 trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 4 Value may exceed the Acceptable Level B Analyte detected	1 nonioruement		-0 -18.1	0.50 (/	0.10	µg/L	1	11/09/16 14:03
1,2-Dichlorophopane ND 0.50 0.10 µg/L 1 11/09/16 14:03 Bromodichloromethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 cis-1,3-Dichloropropene ND 5.00 1.00 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Toluene 0.26 J 0.50 0.16 µg/L 1 11/09/16 14:03 trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 Qualifiers: * Value may exceed the Acceptable Level B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND ND ND ND ND ND ND ND			ND	0.50	0.16	μg/L	1	11/09/16 14:03
Bromduchlofontentatie ND 0.50 0.16 µg/L 1 11/09/16 14:03 cis-1,3-Dichloropropene ND 5.00 1.00 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Toluene 0.26 J 0.50 0.16 µg/L 1 11/09/16 14:03 trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 7 Tetrachloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 2 Hexanone ND 5	T,Z-Dichloroph	noipare	ND	0.50	0.10	μg/L	1	11/09/16 14:03
dis-1,3-Dichologhopene ND 5.00 1.00 µg/L 1 11/09/16 14:03 4-Methyl-2-pentanone 0.26 J 0.50 0.10 µg/L 1 11/09/16 14:03 Toluene 0.26 J 0.50 0.10 µg/L 1 11/09/16 14:03 trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 7 etrachloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 2-Hexanone ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 ND ND	Bromodichioro		ND	0.50	0.16	µg/L_	1	11/09/16 14:03
4-twettyli2-pertuatione 0.26 J 0.50 0.10 µg/L 1 11/09/16 14:03 Toluene ND 0.50 0.16 µg/L 1 11/09/16 14:03 trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:03 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:03 Tetrachloroethene ND 0.50 0.10 µg/L 1 11/09/16 14:03 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Qualifiers: * Value may exceed the Acceptable 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 ND ND ND ND P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits	CIS-1,3-DICINO	opropene	ND	5.00	1.00	µg/L	1	11/09/16 14:03
Totdene ND 0.50 0.16 µg/L 1 11/09/16 14:0; trans-1,3-Dichloropropene ND 0.50 0.16 µg/L 1 11/09/16 14:0; 1,1,2-Trichloroethane ND 0.50 0.16 µg/L 1 11/09/16 14:0; Tetrachloroethene ND 0.50 0.10 µg/L 1 11/09/16 14:0; 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:0; Qualifiers: * Value may exceed the Acceptable 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 ND ND ND ND P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits	4-wethyl-z-per	Ranone	0.26.1	0.50	0.10	μg/L	1	11/09/16 14:03
trans-1,3-Dichlorophysine ND 0.50 0.16 µg/L 1 11/09/16 14:0; 1,1,2-Trichloroethane ND 0.50 0.10 µg/L 1 11/09/16 14:0; Tetrachloroethene ND 0.50 0.10 µg/L 1 11/09/16 14:0; 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:0; Qualifiers: * Value may exceed the Acceptable 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	Toluene	loronronette	ND	0.50	0.16	μg/L	1	11/09/16 14:03
Tetrachloroethene ND 0.50 0.10 µg/L 1 11/09/16 14:0; 2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:0; Qualifiers: * Value may exceed the Acceptable 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	uans-1,3-Dicn	otbane otbane	ND	0.50	0.16	µg/L	1	11/09/16 14:03
2-Hexanone ND 5.00 1.00 µg/L 1 11/09/16 14:03 Qualifiers: * Value may exceed the Acceptable 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	Totrachloroeth		ND	0,50	0.10	μg/L	[′] 1	11/09/16 14:03
Qualifiers: * Value may exceed the Acceptable 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	2-Hexanone	12112	ND	5.00	1.00	μg/L	1 .	11/09/16 14:03
Qualifiers: Value may exceed into recognizio performance		* Value may evaced at	ie Acceptable i evel		B Analvt	e detected in t	he associate	d Method Blank
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	Qualifiers:	F Value may exceed the in	astrument calibration ra	ange	H Holdin	g times for pr	eparation or	analysis exceeded
P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits		D Yaluc exceeds file if	low the POI		ND Not De	etected at the I	Practical Qu	antitation Limit (PQL)
This contract with the second		D Prim /Conf column	%D or RPD exceeds 1	imit	S Spike	Recovery outs	ide accepted	i recovery limits
		10/20/16 0.45	907157 D	ant Suparviso	r. David I Pri	ichard		

10

Print Date: 12/30/16 9:45

Project Supervisor: David J Prichard

Life Science Laboratories, Inc.

Analytical Results

Life Science Laboratories, Inc.

Analytical Results

E	ast Syracuse, NY 130	57 (315) 445-1900	5	stateCertNo	: 10248
CLIENT: Project:	O'Brien & Gere Opera PAS Oswego-Semi-Ar	tions, LLC mual Well Sampling	Lab ID: Client Sample ID:	K1611090	-005A /7/16
W Order: Matrix:	K1611090 WATER		Collection Date: Date Received:	11/07/16 1 11/08/16 1	4:20 5:25
Inst. ID: ColumnID: Revision:	MSN 76 Rtx-VMS 12/28/16 9:33	Sample Size: 10 mL %Moisture: TestCode: 8260W OLM42	PrepDate: BatchNo: FileID:	R30630 1-SAMP-n4	1996,D
Col Type:	12/20/10 7.35	itstebue. 8200 W Chini			
Analyte		Result Qual PQL	MDL Un	its DF	Date Analyzed

VOLATILE ORGANIC COMPOUNE	S BY GC/MS		·······	SW8260)C/5030	c
Dibromochloromethane	ND	0.50	0.10	µg/L	1	11/09/16 14:03
1,2-Dibromoethane	ND	0.50	0.16	μg/L	1	11/09/16 14:03
Chlorobenzene	16.5	0.50	0.10	μg/L	1	11/09/16 14:03
Ethylbenzene	ND	0.50	0.10	µg/L	1	11/09/16 14:03
Xylenes (total)	ND	1.00	0.30	µg/L	1	11/09/16 14:03
Styrene	ND	0.50	0.10	μig/L	1	11/09/16 14:03
Bromoform	ND	1.00	0.33	µg/L	1	11/09/16 14:03
Isopropylbenzene	0.80	0.50	0.10	μg/L	1.	11/09/16 14:03
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	μg/L	1	11/09/16 14:03
1,3-Dichlorobenzene	ND	0.50	0.10	µg/L	1	11/09/16 14:03
1,4-Dichlorobenzene	0.98	0.50	0.16	μg/L	1	11/09/16 14:03
1,2-Dichlorobenzene	0.60	0.50	0.10	µg/L	1	11/09/16 14:03
1,2-Dibromo-3-chloropropane	ND	5.00	1.00	μg/L	1	11/09/16 14:03
1,2,4-Trichlorobenzene	ND	1.00	0.10	µg/L	1	11/09/16 14:03
Surr: 1,2-Dichloroethane-d4	106	75-130	0.16	%REC	1	11/09/16 14:03
Surr: Toluene-d8	101	75-125	0.10	%REC	1	11/09/16 14:03
Surr: 4-Bromofluorobenzene	96	75-125	0.10	%REC	1	11/09/16 14:03

Qualifiers	*	Value may exc	eed the Acceptable	: Level	В	Analyte detected in the associated Method Blank
Quanaci3	Е	Value exceeds the instrument calibration range				Holding times for preparation or analysis exceeded
)	Analyte detect	ed below the PQL		ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. co	lumn %D or RPD	exceeds limit	\$	Spike Recovery outside accepted recovery limits
Print Date:	12/30	0/16 9:45	807157	Project Supervisor:	Dav	id J Prichard

		e. NY 1305/	(315)	445-1900		5	tateCertNo	: 10248	
CLIENT: Project: W Order:	O'Brien & PAS Oswe K1611090	Gere Operation go-Semi-Annua	is, LLC al Well Samp	bling	Lab II Client Collec	 D: Sample ID: tion Date:	K1611090 <i>LR-6 11/8</i> 11/08/16 10	- 006A 8/16):00	
Matrix: Inst. ID: ColumnID: Revision:	Matrix: WATER Inst. ID: MSN 76 ColumnID: Rtx-VMS Revision: 12/28/16 9:33		ample Size: 6Moisture: festCode:	10 mL 8260W OLM42	Date I PrepD Batch FileID	Received: Date: No: D:	11/08/16 15 R30630 1-SAMP-n4	5:25 1997.D	
Col Type:					MDI	(Tini	ite DF	Date Analyzed	
Analyte			Result (Zuai PQL	MD				
VOLATILE	ORGANIC C	OMPOUNDS E	BY GC/MS		0.40	SW	8260C/5030	11/00/16-14-35	
Dichlorodifluo	romethane		ND	1.00	0.10	pg/L	- I 	11/00/16 14:00	
Chloromethar	1e		ND	1.00	0.33	µg/r	- I -	11/00/16 14:35	
Vinyl chloride			ND	1.00	0.33	hð\r	. 1	11/09/10 14:35	
Bromomethar	10		ND	1.00	0.33	µg/L	. 1	11/09/10 14:35	
Chloroethane		•	ND	1.00	0.33	hât	_ 1 ·	11/09/16 14:35	
Trichlorofluor	omethane		ND	1.00	0.10	μg/t	_ 1	11/09/16 14:35	
1,1-Dichloroe	thene		ND	0.50	0.16	µg/L	_ 1	11/09/16 14:35	
1,1,2-Trichlor	0-1,2,2-	\$	ND	0.50	0.10	µg/l	_ 1	11/09/16 14:35	
Acetone	6		ND	10.0	1.00	µg/l	_ 1	11/09/16 14:35	
Carbon disulf	ide		ND	0.50	0.11	ug/l	_ 1	11/09/16 14:35	
Methyl acetat	<u>e</u>		ND	5.00	1.00	µg/l	_ 1	11/09/16 14:35	
Methylene ch	loride		ND	2.00	0.16	. ua/l	_ 1	11/09/16 14:35	
trana 12 Dist	historia		ND	0.50	0.10	μσ/l	1	11/09/16 14:35	
Mothul tert-h	utvi ether			1.00	0.16	ua/l	1	11/09/16 14:35	
1.1 Dichioroo	thano		1 35	0.50	0.10	ua/	- 1	11/09/16 14:35	
dia 1.2 Diable	woathana		0.14	0.50	0.10	-a uo/	 1	11/09/16 14:35	
D Dutenede	Noethene		0.14.	10.00	1.00	ug/	_ ·	11/09/16 14:35	
Z-Butanone			ND	0.60	0.10	pg/-	- 1	11/09/16 14:35	
				0.50	0.10	μ <u>9</u> ,	_ ·	11/09/16 14:35	
1,1,1-11101101	oetnane		ND	0.50	0.10	hân Nai	⊾ । I 1	11/09/16 14:35	
Cyclohexane			UM	0.50	0.10	hA.	L I 1 1	11/09/16 14:35	
Carbon tetrac	chloride		ND	0,50	0.10	µgr. µg/	ш. I I 1	11/09/16 14:35	
Benzene			ND	0.50	0.10	μg/	L 1	11/00/16 14:35	
1,2-Dichloroe	thane		ND	0.50	0.10	hði Nari		11/00/16 14:35	
Trichloroethe	ne		0.18	J 0.50	0.10	μy/ 	L 1	11/00/16 14:35	
Methylcycloh	exane		ND	0.50	0.10	μg/	L I	14/00/16 14:35	
1,2-Dichlorop	ropane		ND	0.50	0.16	hð,		11/00/10 14:00	
Bromodichlo	romethane		ND	0.50	0.10	μg/	£, 1 ⊤ ⊀	11/00/46 14:30	
cis-1,3-Dichk	propropene		ND	0.50	0.16	hân M			
4-Methyl-2-p	entanone		ND	5.00	1.00	hā,		14/00/40 44:35	
Toluene			ND	0.50	0.10	hð/		11/08/10 14:35	
trans-1,3-Dic	hloropropene		ND	0.50	0.16	μg/	L 1	11/09/16 14:35	
1,1,2-Trichlo	roethane		ND	0.50	0.16	hâi	L 1	11/09/16 14:35	
Tetrachloroe	thene		ND	0.50	0.10	μg/		11/09/16 14:35	
2-Hexanone			ND	5.00	1.00	μg/	"L 1	11/09/16 14:35	
Qualifiara	* Value	may exceed the A	cceptable Level		B /	Analyte detected	in the associate	d Method Blank	
Quantiers:	E Value	exceeds the instru	ment calibratio	n range	ΗH	Iolding times for	r preparation or	analysis exceeded	
	J Analy	te detected below t	elow the POL			ND Not Detected at the Practical Quantitation Limit (PQL)			
	P Prim.	/Conf. column %D	or RPD exceed	ls limit	S 5	Spike Recovery of	outside accepted	I recovery limits	
Print Date	12/30/16 9	45 807	158 Pr	oiect Superviso	. David	J Prichard			

Life Science Laboratories, Inc.

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Analytical Results

E	ast Syracuse, NY 1305	7 (315)	445-1900	1	StateCertNo: 10248
CLIENT: Project:	O'Brien & Gere Operati PAS Oswego-Semi-Anr	ons, LLC wal Well Samj	bling	Lab ID: Client Sample ID:	K1611090-006A LR-6 11/8/16
W Order: Matrix:	K1611090 WATER MSN 76	Sample Size	10 -	Collection Date: Date Received: BrenDate:	11/08/16 10:00 11/08/16 15:25
ColumnID: Revision: Col Type:	Rtx-VMS 12/28/16 9:33	%Moisture: TestCode:	8260W OLM42	BatchNo: FileID:	R30630 1-SAMP-n4997.D

Analyte	Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS			SW826	0C/5030C	;
Dibromochloromethane	ND	0.50	0.10	µg/L	1	11/09/16 14:35
1,2-Dibromoethane	ND	0.50	0.16	µg/L ⁻	1	11/09/16 14:35
Chlorobenzene	ND	0.50	0.10	µg/L	1 ·	11/09/16 14:35
Ethylbenzene	ND	0.50	0.10	µg/L	1	11/09/16 14:35
Xylenes (total)	ND	1.00	0.30	µg/L	1	11/09/16 14:35
Styrene	ND	0.50	0.10	µg/L	1	11/09/16 14:35
Bromoform	ND	1.00	0.33	µg/L	1	11/09/16 14:35
Isopropylbenzene	ND	0.50	0.10	µg/L	1	11/09/16 14:35
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1	11/09/16 14:35
1,3-Dichlorobenzene	ND	0.50	0.10	µg/L	1	11/09/16 14:35
1,4-Dichlorobenzene	ND	0.50	0.16	µg/L	1	11/09/16 14:35
1,2-Dichlorobenzene	ND	0.50	0.10	μg/L	1	11/09/16 14:35
1,2-Dibromo-3-chloropropane	ND	5.00	1.00	րց/լ	1	11/09/16 14:35
1,2,4-Trichlorobenzene	ND	1.00	0.10	µg/L	1	11/09/16 14:35
Surr: 1,2-Dichloroethane-d4	110	75-130	0.16	%REC	1	11/09/16 14:35
Surr: Toluene-d8	106	75-125	0.10	%REC	1	11/09/16 14:35
Surr: 4-Bromofluorobenzene	99	75-125	0.10	%REC	1	11/09/16 14:35

Oualifiers:	*	Value may exc	eed the Acceptable	: Level	В	Analyte detected in the associated Method Blank
4	Е	Value exceeds the instrument calibration range			н	Holding times for preparation or analysis exceeded
	J	Analyte detecte	ed below the PQL		ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. co	lumn %D or RPD	exceeds limit	S	Spike Recovery outside accepted recovery limits
Print Date:	12/3	0/16 9:45	807158	Project Superv	visor: Davi	id J Prichard

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LSL 58	_ife 854 B	Science	La	borator	ies, Inc.		Ē	Ana	lyti	cal Results
E	ast S	vracuse, NY 13	057	(315) 44	5-1900		s	tateCe	ertNo:	10248
CLIENT: Project: W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	O'Bi PAS K16 WA MSI Rtx- 12/2	ien & Gere Oper Oswego-Semi-A 11090 TER V 76 VMS 8/16 9:33	ations nnual Sa %	s, LLC l Well Samplin ample Size: 10 Moisture: estCode: 82	g mL 60W OLM42	Lab ID: Client Sam Collection Date Recei PrepDate: BatchNo: FileID:	ple ID: Date: ved:	K161 LCW 11/08/ 11/08/ R3063 1-SAM	1090 7-2 11 716 11 716 15 70 4P-n4	-007A 1/8/16 :05 :25 9999.D
Analyte			Î	Result Qua	I PQL	MDL	Uni	ts]	DF	Date Analyzed
VOLATILE C	DRG/	NIC COMPOUN	DS B'	Y GC/MS			SW	8260C/	50300	<u> </u>
Dichlorodifluor	rometi	nane		ND	5.00	0.50	µg/L	Į	5	11/09/16 15:42
Chloromethan	e		i	ND	5.00	1.65	µg/L	:	5	11/09/16 15:42
Vinvl chloride				43.8 T+	5.00	1.65	μg/L	. 4	5	11/09/16 15:42
Bromomethan	e			ND	5.00	1.65	μg/L	. 4	5	11/09/16 15:42
Chloroethane				11.4	5.00	1.65	µg/L		5	11/09/16 15:42
Trichlorofluoro	meth	ane		ND	5.00	0.50	μg/L		5	11/09/16 15:42
1,1-Dichloroet	thene			ND	2.50	0.80	µg/L	. 4	5	11/09/16 15:42
1,1,2-Trichloro	-1,2,2	-	Ő	ND	2.50	0.50	µg/L	, 4	5	11/09/16 15:42
Acetone	5		p	930.44	50.0	5.00	uo/L	. :	5	11/09/16 15:42
Carbon disulfic	de		- Ś		2.50	0.55	ua/L		5	11/09/16 15:42
Methyl acetate	ч. ч		Ý	Ϋ́ΝΡ	25.0	5.00	ua/L		5	11/09/16 15:42
Methylene chl	oride		Ľ,	200 .* 1	10.0	0.80			5	11/09/16 15:42
trans-1 2-Dich	loroet	hene	5		2 50	0.50	ua/L		5	11/09/16 15:42
Methyl tert-but	fvl efh	er	5		5.00	0.80	uo/L		5	11/09/16 15:42
1 1-Dichloroet	hane		· 0	46.2	2.50	0.50	ua/L		5	11/09/16 15:42
cis-1.2-Dichlor	roethe	ne	ン	136	2.50	0.50	ua/L		5	11/09/16 15;42
2-Butanone			5	ND	50.0	5.00	ua/l		5	11/09/16 15:42
Chloroform			00	4.75	2 50	0.50	ua/l		5	11/09/16 15:42
1.1.1-Trichloro	pethar	e	\bigcirc	25.2	2.50	0.50	'ua/l	_	5	11/09/16 15:42
Cyclohexane		-		ND	2.50	0.50	ua/l		5	11/09/16 15:42
Carbon tetraci	hloride	•		ND	2.50	0.50	µg/l	-	5	11/09/16 15:42
Benzene				252	2.50	0.50	μg/l		5	11/09/16 15:42
1.2-Dichloroet	thane			ND	2,50	0.80	μg/l	-	5	11/09/16 15:42
Trichloroethen	ne			65.0	2.50	0.50	µg/l	-	5	11/09/16 15:42
Methylcyclohe	exane			ND	2.50	0.50	µg/l	-	5	11/09/16 15:42
1.2-Dichloropr	ropane	3		ND	2.50	0.80	µg/l	-	5	11/09/16 15:42
Bromodichloro	ometh	ane		ND	2.50	0.50	µg/l	-	5	11/09/16 15:42
cis-1,3-Dichlor	roprop	ene		ND	2.50	0.80	µg/l	· ·	5	11/09/16 15:42
4-Methyl-2-pe	ntano	ne		ND	25.0	5.00	µg/l	.	5	11/09/16 15:42
Toluene				0.85 J	2.50	0.50	μ g /l	-	5	11/09/16 15:42
trans-1,3-Dich	nloropi	opene		ND	2.50	0.80	µg/l	-	5	11/09/16 15:42
1,1,2-Trichlord	oethar	e		0.85 J	2.50	0.80	μg/i	-	5	11/09/16 15:42
Tetrachloroeth	hene			244	2.50	0.50	µg/l	-	5	11/09/16 15:42
2-Hexanone				ND	25.0	5.00	µg/l	-	5	11/09/16 15:42
Qualifiers:	*	Value may exceed	the Acc	eptable Level		B Analyte	detected i	n the ass	ociated	Method Blank
×	Е	Value exceeds the i	nstrum	ent calibration ran	ge	H Holding times for preparation or analysis exceeded				
	J	Analyte detected be	low the	e PQL		ND Not De	tected at th	e Practi	cal Qua	ntitation Limit (PQL)
	Р	Prim./Conf. column	1 %D 0	r RPD exceeds lin	nit	S Spike F	Recovery o	utside ac	cepted	recovery limits
Print Date:	12/3	0/16 9:45	8071	60 Proje	t Supervisor:	David J Pri	chard			

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I ST 5	ife Science	An	Analytical Results				
LDL	ast Syracuse, NY 1	, 3057 (315) 4	445-1900		State	CertNo:	10248
CLIENT: Project:	O'Brien & Gere Op PAS Oswego-Semi-	erations, LLC Annual Well Sampl	ling	Lab ID: Client Sampl	K1 e ID: <i>LC</i>	611090- W-2 11	007A /8/16
W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	K1611090 WATER MSN 76 Rtx-VMS 12/28/16 9:33	Sample Size: %Moisture: TestCode:	10 mL 8260W OLM42	Collection D: Date Receive PrepDate: BatchNo: FileID:	ate: 11/ d: 11/ R3(1-S	08/16 11: 08/16 15: 0630 AMP-n49	05 25 999.D
Analyte		Result Q	ual PQL	MDL	Units	DF	Date Analyzed
VOLATILE	ORGANIC COMPOU	NDS BY GC/MS		<u> </u>	SW826)C/5030C	;
Dibromochlor	omethane	ND	2.50	0.50	µg/L	5	11/09/16 15:42
1,2-Dibromoe	thane	ND	2.50	0.80	μg/L	5	11/09/16 15:42
Chlorobenzer	ne	44.2	2.50	0.50	μg/L	5	11/09/16 15:42
Ethylbenzene	ł	8.40	2.50	0.50	µg/L	5.	11/09/16 15:42
Xylenes (total	l)	13.6	5.00	1.50	μg/L	5	11/09/16 15:42
Styrene		ND	2.50	0.50	µg/L	5	11/09/16 15:42
Bromoform		ND	5.00	1.65	µg/L	5	11/09/16 15:42
Isopropylbena	zene	1.10 J	2.50	0.50	µg/L	5	11/09/16 15:42
1,1,2,2-Tetra	chloroethane	1.40 J	2,50	0.50	µg/L	5,	11/09/16 15:42
1,3-Dichlorob	enzene	ND	2.50	0.50	µg/L	5	11/09/16 15:42
1,4-Dichlorob	enzene	ND	2.50	0.80	µg/L	5	11/09/16 15:42
1,2-Dichlorob	enzene .	2.80	2.50	0.50	µg/L	5	11/09/16 15:42
1,2-Dibromo-	3-chloropropane	ND	25.0	5.0 0	µg/L	5	11/09/16 15:42
1,2,4-Trichlor	robenzene	ND	5.00	0.50	µg/L	5	11/09/16 15:42
Surr: 1,2-E	Dichloroethane-d4	108	75-130	0.80	%REC	5	11/09/16 15:42
Surr: Tolue	ene-d8	102	75-125	0.50	%REC	5	11/09/16 15:42
Surr: 4-Bro	omofluorobenzene	96	75-125	0.50	%REC	5	11/09/16 15:42

Qualifiers:	* E	Value may exc Value exceeds	ced the Acceptable the instrument cali	Level bration range	B H	Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded
	J	Analyte detect	ed below the PQL		ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. co	olumn %D or RPD o	exceeds limit	S	Spike Recovery outside accepted recovery limits
Print Date:	12/30	0/16 9:45	807160	Project Supervisor:	Dav	id J Prichard

Project Supervisor: David J Prichard 807160

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Life Science Laboratories, Inc.

Analytical Results

East Syracuse, N	¥ 13057 (315) 445-1900		StateCertNo: 10248				
CLIENT: O'Brien & Gere	Onerations, LLC	Lab ID:	Lab ID: K1611090-008A				
Project: PAS Oswego-Se	mi-Annual Well Sampling	Client Sam	ple ID: LC		/8/16		
Worders V1611000		Collection]	Date: 11/	08/16 12:1	15		
Worder: NIOTIUSU		Date Receiv	ved: 11/	08/16 15:2	25		
MALTIX: WATER	Sample Stree 10 ml	PrenDate	vu				
Inst. ID: MSN /0	Sample Size: 10 mL	RatchNo.	R3()630			
Community: $K(x - y)MS$	701VIOISTURE:	tao Filem.	1-5	AMP-n49	98.D		
Revision: 12/28/10 9:55	TesiCode: 8200 W OLW	142 FileID.	, 1		5 9125		
Col Type:		·····					
Analyte	Result Qual PQL	MDL	Units	DF	Date Analyze		
VOLATILE ORGANIC COMP	OUNDS BY GC/MS		SW826	0C/5030C			
Dichlorodifluoromethane	ND 20.0	2.00	μg/L	20	11/09/16 15:09		
Chloromethane	ND 20.0	6.60	µg/L	20	11/09/16 15:09		
/inyl chloride	13.8 J+- 20.0	6.60	µg/L	20	11/09/16 15:09		
3romomethane	ND 20.0	6.60	μg/L	20	11/09/16 15:09		
Chloroethane	70.6 20.0	6.60	µg/L	20	11/09/16 15:09		
Trichlorofluoromethane	0 ND 20.0	2.00	μġ/L	20	11/09/16 15:09		
1,1-Dichloroethene	δ ND 10.0	3.20	μg/L	20	11/09/16 15:09		
1,1,2-Trichloro-1,2,2-	2 ND 10.0	2.00	µg/L	20	11/09/16 15:09		
Acetone	Z ~ 23.4 J++ 200	20.0	µg/L	20	11/09/16 15:09		
Carbon disulfide	ND 10.0	2.20	µg/L	20	11/09/16 15:09		
Viethvl acetate	50 ND 100	20.0	µg/L	20	11/09/16 15:09		
Methylene chloride	420-111 40.0	3.20	ug/L	20	11/09/16 15:09		
rans-1 2-Dichloroethene	ND 10.0	2.00	μg/L	20	11/09/16 15:09		
Methyl tert-bulyl ether	ND 20.0	3.20	µg/L	20	11/09/16 15:09		
1 1-Dichloroethane	2 102 100	2.00	µa/L	20	11/09/16 15:09		
ris_1 2-Dichlomethene	126 10.0	2.00	µg/L	20	11/09/16 15:09		
2-Butanone		20.0	µa/L	20	11/09/16 15:09		
Chloroform		2.00	u o/L	20	11/09/16 15:09		
	ND 10.0	2.00	ua/L	20	11/09/16 15:09		
	860 [10.0	2.00	uo/i_	20	11/09/16 15:09		
Carbon tetrachloride	ND 10.0	2.00	uo/L	20	11/09/16 15:09		
	350 10.0	2.00	ua/ł.	20	11/09/16 15:09		
d 2 Dishistosihana	ND 10.0	3 20	ua/L	20	11/09/16 15:09		
T,2-Dichloroefhane	ND 10.0	2.00	на/н 110/1	20	11/09/16 15:09		
	3 20 1 10.0	2.00	uo/t	20	11/09/16 15:09		
	ND 10.0	3.20	uo/l	20	11/09/16 15:09		
T,2-Dictiocopropane Bramadishieremethana	ND 10.0	2.00	µa/∺ uo/l	20	11/09/16 15:09		
		3.20	200/F	20	11/09/16 15:09		
cis-1,3-Dichloroproperie	ND 10.0	20.0	ug/i	20	11/09/16 15:09		
4-weinyi-z-pentanone		20.0	на/I	20	11/09/16 15:09		
		2.00 3.00	μθι κ Πυγμ	20	11/09/16 15:09		
trans-1,3-Dicnioropropene		3.20	100/l	20	11/09/16 15:09		
		2.20	100/l	20	11/09/16 15:09		
retrachioroethene		2.00	100/I	20	11/09/16 15:09		
2-mexanone		20.0					
Qualifiers: * Value may ex	kceed the Acceptable Level	B Analyte	B Analyte detected in the associated Method Blank				
E Value exceed	is the instrument calibration range	H HOIGIN	s times for pre-	nation of a	ititation Limit (POL)		
J Analyte detec	cted below the PQL	ND NOLDE	eccicu ai ule Pi	a accented	ecovery limits		
P Prim./Conf. e	column %D or RPD exceeds limit	> Spike F	cecovery outsit	re accepted 1	secrety mana		

LSL 55	Life Scienc 854 Butternut Driv	e Laborator	ries, In	c.	An	alyti	cal Results
E	ast Syracuse, NY	13057 (315) 44	5-1900		State	CertNo:	10248
CLIENT: Project:	O'Brien & Gere O PAS Oswego-Sem	perations, LLC i-Annual Well Samplin	ıg	Lab ID: Client Samj	K1 ple ID: LC	611090- W-4 11	008A /8/16
W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	K1611090 WATER MSN 76 Rtx-VMS 12/28/16 9:33	Sample Size: 10 %Moisture: TestCode: 82)mL 260W OLM	Collection I Date Receiv PrepDate: BatchNo: 42 FileID:	Date: 11/0 red: 11/0 R30 1-S.	08/16 12: 08/16 15: 630 AMP-n49	15 25 998.D
Analyte		Result Qu	al PQL	MDL	Units	DF	Date Analyzed
VOLATILE O	ORGANIC COMPO	UNDS BY GC/MS	·····		SW8260	C/5030C	
Dibromochloro	omethane	ND ND	10.0 10.0	2.00 3.20	μg/L μg/L	20 20	11/09/16 15:09 11/09/16 15:09
Chlorobenzen Ethylbenzene	e	212 267	10.0 10.0	2.00 2.00	μg/L μg/L 	20 20 20	11/09/16 15:09 11/09/16 15:09 11/09/16 15:09
Xylenes (total Styrene Bromoform)	593 ND ND	20.0 10.0 20.0	6.00 2.00 6.60	μg/L μg/L	20 20 20	11/09/16 15:09 11/09/16 15:09 11/09/16 15:09
Isopropylbenz 1,1,2,2-Tetrac	ene shioroethane	3.80 J ND	10.0 10.0	2.00	μg/L μg/L	20 20	11/09/16 15:09 11/09/16 15:09 11/09/16 15:09
1,3-Dichlorob 1,4-Dichlorob	enzene	ND 3.40 J	10.0 10.0	2.00 3.20	μg/L μg/L	20 20	11/09/16 15:09

2.00

20.0

2.00

3.20

2.00

2.00

20

20

20

20

20

20

µg/L

µg/L

μg/L

%REC

%REC

%REC

11/09/16 15:09

11/09/16 15:09

11/09/16 15:09

11/09/16 15:09

11/09/16 15:09

11/09/16 15:09

CLIENT:	O'Brien & Gere Operations, LLC	Lab ID:
Droinate	BAS Oswago, Sami, Annual Well Sampling	Client Sample ID:

30.8

ND

ND

114

98

95

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

Surr: Toluene-d8

1,2-Dibromo-3-chloropropane

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofiuorobenzene

10.0

100

20.0

75-130

75-125

75-125

Onalifiers:	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Quannessi	Е	Value exceeds the instrument calibration range	н	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.

Analytical Results

Eas	t Syracuse, NY 13	6057 (315) 4	45-1900		S	tateCertNo:	10248
CLIENT: C)'Brien & Gere Oper	rations, LLC		Lab I	 D:	K1611090-	009A
Project: P	AS Oswego-Semi-A	Annual Well Sampl	ing	Client	Sample ID:	QC Trip B	lank 11/4/16
W Order: K	C161 1090			Collec	tion Date:	11/04/16 0:0	0
Matrix: V	WATER O			Date 1	Received:	11/08/16 15:	25
Inst. ID: N	ASN 76	Sample Size:	0 mL	PrepI	Date:		
ColumnID: F	tx-VMS	%Moisture:		Batch	No:	R30630	
Revision: 1	2/28/16 9:33	TestCode:	3260W OLM42	FileII):	1-SAMP-n50)02.D
Col Type:							
Analyte		Result Q	al POL	MD	L Unit	s DF	Date Analyze
VO! ATILE OF	GANIC COMPOUN	IDS BY GC/MS			SW8	260C/5030C	· · · · · · · · · · · · · · · · · · ·
Dichlorodifluoror	nethane	ND	1.00	0.10	ua/L	1	11/09/16 17:19
Chloromethane		ND	1.00	0.33	ua/L	1	11/09/16 17:19
Vinvl chloride		ND	1.00	0.33	uo/L	1	11/09/16 17:19
Bromomethane		ND	1.00	0.33	но ца/L	1	11/09/16 17:19
Chloroethane		ND	1.00	0.33	µg/)_	1	11/09/16 17:19
Tricblorofluorom	ethane	· ND	1.00	0.10	ug/L	1	11/09/16 17:19
1 1-Dichloroethe	ne	. ND	0.50	0.16	ua/L	1	11/09/16 17:19
1,1,2-Trichloro-1	,2,2-	ND	0.50	0.10	µg/L	1	11/09/16 17:19
Acetone		ND	10.0	1.00	ua/L	1	11/09/16 17:19
Carbon disulfide	i i i i i i i i i i i i i i i i i i i	ND	0.50	0.11	uo/L	1	11/09/16 17:19
Methyl acetate			5.00	1.00	ud/L	1	11/09/16 17:19
Methylene chlori	ida	0.21	2.00	0.16	+9 ua/t	1	11/09/16 17:19
trane_1 2-Dichion	roethene		0.50	0.10	µg/=	1	11/09/16 17:19
Mothul fort buful	other		1.00	0.10	pg/c ug/l	1	11/09/16 17:19
1 1 Dicblorgaths			0.50	0.10	µg/L ug/l	1	11/09/16 17:19
cis 1 2 Dichlorod	othozo	ND	0.50	0.10	µg/=		11/09/16 17:19
2-Butenone	amono		10.0	1 00	pg/=	, 1	11/09/16 17:19
Chloroform			0.50	0.10	pg/=	1	11/09/16 17:19
1.1.1.Trichloroof	ihana	ND ND	0.50	0.10	µg/⊑ µg/l		11/09/16 17:19
Cueleboxano			0.50	0.10	່ມດ/	1	11/09/16 17:19
Corbon totrophic			0.50	0.10	µg/L	1	11/09/16 17:19
Penzono	Mue	ND ND	0.50	0.10	μg/L μα/l	1	11/09/16 17:19
1.2 Dishiaraatha			0.50	0.10	µg/t µg/l	4	11/09/16 17:19
T,Z-Dictionueura	me		0.50	0.10	μg/L 110/1	4	11/09/16 17:19
Mathulaualabava			0.50	0.10	hđir Ngir	1	11/09/16 17:19
1 0 Disklassova			0.50	0.10	µg/a ug/l	1	11/09/16 17:19
T,2-Dicitioroprop	Jane		0.50	0.10	µgr⊏ µg/l	1	11/09/16 17:19
			0.50	0.10	hQ/C	ו 1	11/09/16 17-19
A Mothul 'O north	propens		0.00	1.00	н9/ч 11/2/1	• • 1	11/09/16 17 10
	anone	UVI: Alta	0.00	1.00	µ9/۲ الحرب	1	11/09/16 17-10
tions 1.2 Diable	0000000		0.50	0.10	μ <u>υ</u> /μ	, 1	11/09/16 17:10
1 1 2 Triablarce	Iopropene		0.50	0.10	µg/L 110/1	1	11/09/16 17.10
Tatrachieroother			0.00	0.10	114/L 118/L	י 1	11/09/16 17 10
2-Hexanone		םאו תוא	5.00	1 00	nu/l	1	11/09/16 17:19
				1.00			
Qualifiers:	 Value may exceed Value may exceed 	the Acceptable Level		BA	nalyte detected in	the associated	Methou Blank
	E value exceeds the	instrument calibration i	ange		lotaing times for	Drantical One-	universit exceded
	J Analyte detected b	elow the PQL	ture ta	NU N	not Detected at the	rracucai Quan teide accented *	ecovery limits
	r rim./Coni. colum	n wD or KPD exceeds	17R1T		pike Recovery ou	unue accepted I	
Print Date: 12	2/30/16 9:45	807162 Proj	ect Supervisor:	: David	J Prichard		

Life Science Laboratories, Inc.

Analytical Results

East Syracuse, NY 13057 (315) 445-1900					State	CertNo:	10248
CLIENT: Project: W Order:	O'Brien & Gere Ope PAS Oswego-Semi- K1611090	rations, LLC Annual Well Samp	oling	Lab ID: Client Sam Collection I	K10 ple ID: QC Date: 11/0	611090- C Trip B 04/16 0:0	009A Blank 11/4/16 10 25
Matrix: Inst. ID: ColumnID: Revision: Col Type:	WATER Q MSN 76 Rtx-VMS 12/28/16 9:33	Sample Size: %Moisture: TestCode:	10 mL 8260W OLM4	Date Receiv PrepDate: BatchNo: 2 FileDD:	R30	630 AMP-n5	002.D
Analyte		Result (Qual PQL	MDL	Units	DF	Date Analyzed
	ORGANIC COMPOU	NDS BY GC/MS			SW8260	C/50300	;
Dibromochlor	omethane	ND	0.50	0.10	µg/L	1	11/09/16 17:19
1 2-Dibromoe	thane	ND	0.50	0.16	μg/L	1	11/09/16 17:19
Chiorobenzer	ne.	ND	0.50	0.10	µg/L	1	11/09/16 17:19
Ethylhenzene		ND	0.50	0,10	µg/L	1	11/09/16 17:19
Xvienes (total)	ND	1.00	0.30	µg/L	1	11/09/16 17:19
Styrene	7	ND	0.50	0.10	µg/L	1	11/09/16 17:19
Bromoform		ND	1.00	0,33	μg/L	1	11/09/16 17:19
Isopronviben:	7606	ND	0.50	0.10	μg/L	1	11/09/16 17:19
1 1 2 2-Tetra	chloroethane	ND	0.50	0.10	μg/L	1	11/09/16 17:19
1 3-Dichlorob	enzene	ND	0.50	0.10	μg/L	- 1	11/09/16 17:19
1 4-Dichlorob	enzene	ND	0.50	0.16	· μg/L	1	11/09/16 17:19
1 2-Dichlorob	enzene	ND	0.50	0.10	µg/L	1	11/09/16 17:19
1,2-Dibromo-	3-chloropropane	ND	5.00	1.00	μg/L	1	11/09/16 17:19
1.2.4-Trichlor	obenzene	ND	1.00	0.10	µg/L	1	11/09/16 17:19
Sur: 1.2-E)ichloroethane-d4	111	75-130	0.16	%REC	1	11/09/16 17:19
Surr: Tolue	ene-d8	102	75-125	0.10	%REC	1	11/09/16 17:19
Surr: 4-Bro	omofluorobenzene	97	75-125	0.10	%REC	1	11/09/16 17:19

Owalification	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Quaimers:	Е	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Project Supervisor: David J Prichard Print Date: 12/30/16 9:45 807162



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

K1611090

Chain of Custody

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

5854 Butternut Drive

Client: OBG Operations									Ar	nalysis	/Meth	od		Γ
Project ID: PAS Oswego -						/	7	/	/	/				
Sampled by: Martin Koennecke					,, <u>, , , , , , , , , , , , , , </u>	/			/		/			
Client Contact: Mark Byrne	Pł	none # 3	315-842	-7024			0	/						
Sample Des	cription	!					9/							
Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	100	/				/		Comments	
001 Equipment BLANK	11-7-16	10:15	WATER	6	3	3								
002 M-21	11-7-16	11:15	water	6	3	3				1				
m-21 MS	11716	11:15	instan	6	3	3								
M-21 MSD	11-7-16	11:15	worther	6	3	3								
803 X-1	11-7-16	·	WATAL	6	3	3								
ord ELR-8	11-7-16	1250	water	6	3	3							· · · · · · ·	
603 OD-3	11-7-16	14:20	WATER	6	3	3								
006 LR-6	11-8-16	10:00	water	6	3	3								
007 LCW-2	11-8-16	11:05	water	6	3	3								
008 LC-W-4	11-8-16	12:15	water	6	3	3							- <u></u>	
009 QCTRIP BLANK	<u> </u>		wroter		2	3							anu	_
Relinquished by: M. A. Hoenorthe) Da	te: //-8 ·	-// _C Time	:1525	Receive	d by:	1		<u> </u>	ļ;	l D	ate:	Time:	
Relinquished by:	Da	te:	Time	:	Receive	d by:					Ð	ate:	Time:	
Relinquished by:	Da	te:	Time		Receive	d by Lai	s: R.Vau	n Va	nder	6/Blv	D	ate: ///8//	6 Time: 3:25	- P.
Shipment Method: 14 Am D			•		Airbill Nu	umber:						<u> </u>		

Comments: PO #:

Turnaround Time Required: Routine _____X Rush _____

On les

Samples Received

Cooler Temperature:

Gľ

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: OGINA PAS			Date and T	ime Received:	11/8/2016 3:25:00 PM
Work Order Number: K1611090			Received b	y: rv	
Checklist completed by: Initials	<u>7</u> 3	/1-5-16 Date	Reviewed	i by: <u>S</u> Initials	i/////ks Date
	Delive	ery Method: Hand Delivered	1		
Shipping container/cooler in good cond	ition?	Yes 🗹	No 🗔	Not Present	
Custody seals intact on shipping contai	ner/cooler?	Yes	No 🗔	Not Present 🛛 🗹	
Custody seals intact on sample bottles?	?	Yes 🗌	No 🗋	Not Applicable 🗹	
Chain of custody present?		Yes 🗹	No 🗀		
Chain of custody signed when relinquis	hed and received?	Yes 🔽	No 🗌		
Chain of custody agrees with sample la	bels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?		Yes 🗹	No 🗔		
Sample containers intact?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated t	test?	Yes 🗹	No 🗋		
All samples received within holding time	9?	Yes 🗹	No 📋		
Container/Temp Blank temperature in c	ompliance?	Yes 🗹	No 🗋		
Water - VOA vials have zero headspace	e?	Yes 🗹	No 🗔	No VOA vials submitt	ed 🗌
Water - pH acceptable upon receipt?		Yes 🗍	No	Not Applicable 🖌	

Comments:

Corrective Action:

FORMER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date	11-8-110	Weather	SUMULY 48°
Site Name	PAS Oswego	Well #	LCW-D
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number	607141	Sampling Method	EPA Low Flow Method II
Personnel	M. Koenweckel		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 13,12	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	X

Volume removed before Sampling	gals
Did Well go dry?	NO

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS

Time 10 30	Depth to Water	Temperature	рН	Conductivity	ORP	DO (85) Aq/L	Turbidity (NTU)	Flow Rate
5 mil	13.12	13.21	6.75	10729	-69.5	1.09	5,40	300
ID MIA.	13.12	/3.14	6,71	1.715	- 73, 4	0.71	4,82	300
15min	13.12	13,06	6,68	1,709	- 17/7.6	0,41	4.24	300
Ballas	13.12	13.06	Colalo	1.702	~ 78, 8	0,31	4,07	300
2500.00	13.12	13.07	6.63	1.698	- 179.5	0,20	4,08	300
St av the	13.12	13.07	6.62	1.696	- 80,4	0,19	3,98	300
	<u>, uz</u>	//						
		,,,,,,,						

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WATER SAMPLE LCW-2

Time Collected: 11:05

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	cleon	clean
Odor	SLight	SLIGHT
Turbidity <100 (NTU)	NB	NO
Sheen/Free Product	ND	NO

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40ml	glors	3	NO	HUL	
	<i>v</i>				
				1	·

NOTES

PID REHDING PEAK 132 PPM AUG. 16.0 PPM

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MINER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date	11-8-16	Weather SUNNY 55	<i>•</i>
Site Name	PAS Oswego	Well# LCW-4	
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number	607111	Sampling Method	EPA Low Flow Method II
Personnel	M. Kolawski		

WELL INFORMATION

•

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 19.80	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	×

Volume removed before Sampling	3	gals
Did Well go dry?		NO

Measurements Taken From: Well Casting Protective Casting Other:	· · · · · · · · · · · · · · · · · · ·			
	Measurements Taken From:	Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK
						•	

WATER PARAMETERS

Time i1:40	Depth to Water	Temperature	рН	Conductivity MS/CM	ORP	DO (85)	Turbidity (NTU)	Flow Rate
Snin	19.80	13.08	6,77	2.679	-89,6	0.76	3,95	300
10 min	19.80	13.18	6,65	2,700	-76,0	0.53	3,69	300
15 min	19.80	13,26	6.61	2,702	- 83.6	0.30	4,70	300
20min	19.80	13,14	6.59	2.683	- 70,6	0,25	3.87	300
25 MIN	19.80	13,10	6.55	2.655	- 65.9	0,19	4.40	300
30 MIN	19.80	13.08	6,56	d,652	- 65.6	0,17	4,35	300
	- -							
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WATER SAMPLE LCW-4

Time Collected: 12:15

Characterictics	Physical Annearance At Start	Physical Appearance At Sampling
Color	Yallowst Twit	
Odor	Stephi	
Turbidity <100 (NTU)	NO	
Sheen/Free Product	NO	

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Celens.	3	NO	HCL	
	9				
w					
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NOTES

PID READING PEAK-10, 1PPM AVG-3,5 PPM

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FORMER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date	11-8-16	Weather	7-SUARY 40°
Site Name	PAS Oswego	Well #	LR.6
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number	609791	Sampling Method	EPA Low Flow Method II
Personnel	M. K. Pawerke		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 11,38	2" Diameter Well	= 0.163 X LWC	×
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

Volume removed before Sampling	gals
Did Well go dry?	

Measurements Taken From:	Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS

Time 9:10	Depth to Water	Temperature	рН	Conductivity	ORP	DO (22)	Turbidity (NTU)	Flow Rate
5 min	12.26	10.74	7.29	1.000	-91,8	0.85	4.25	300
112.00	12.45	10.74	7.15	1,100	-75.0	0.64	2,48	300
15 MW	12.60	10.69	7.07	1.147	-39.7	0.51	0,84	300
20000	12.70	10 78	7.03	1.150	- 35,0	0.46	0.77	300
25000	12.75	10.68	7.01	1.147	-30,1	0.39	0.56	300
30	11.75	10.76	6.99	1,152	-26.3	0,29	0,49	300
25 min	12.76	10.77	6.99	1,152	- 25.1	0,27	0,53	300
40 min	12.76	10.75	6.99	1,151	- 24.8	0,26	0,48	300

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WATER SAMPLE LR-6

Time Collected: 10,00)	
Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	clem	Clem
Odor	NO	NO
Turbidity <100 (NTU)	NO	NO
Sheen/Free Product	NO	A/0

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
Hoal	alers	3	NO	HCL	
	1				
	- <u> </u>				

NOTES

PID READING O.O PROM

FORMER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date	11-17-10	Weather	SUNNY 45
Site Name	PAS Oswego	Well #	LR-8
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number		Sampling Method	EPA Low Flow Method II
Personnel	M. Koenneeche		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft //,34	2" Diameter Well	= 0.163 X LWC	7
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1,469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

Volume removed before Sampling	3	gals	
Did Well go dry?	NO		

Measurements Taken From:	🗶 Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS

Time	Depth to Water	Temperature	рН	Conductivity MS/Con	ORP	DO (%)	Turbidity (NTU)	Flow Rate
5min	12,00	11.37	7,19	.834	-56,1	<u> </u>	2,54	300
10, mar	12.04	11.51	6.83	0913	-80,8	.98	1,09	300
15 m iv	12,04	11.53	6.78	.924	-91,2	1.09	0,78	300
20 min	12.06	11.52	6.80	,924	-96.9	0.97	0,48	300
35 min	12,06	11.52	6.78	1924	-100,9	0,83	0,47	300
BOMIN	12.05	11.53	6.76	. 425	- 102,1	0,80	0,40	300
			1	<u>}</u> }				
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WATER SAMPLE LR-8

Time Collected: 12, 50

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	clean	clear
Odor	NO	NO
Turbidity <100 (NTU)	NO	No
Sheen/Free Product	NO	NO

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
HOM.	Cilina	3	NO	HUL	
70#X	- your				
<u>.</u>					
. <u></u>	<u> </u>	_ <u>_</u>			
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FORMER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date 11-7-14		Weather	SUMMY 55
Site Name	PAS Oswego	Well #	OD3
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number	1007771	Sampling Method	EPA Low Flow Method II
Personnel	MROENNety		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 110,710	2" Diameter Well	= 0.163 X LWC	V
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

Volume removed before Sampling	3	gals	
Did Well go dry?		NO	

Measurements Taken From:	📉 Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings
4.0 Standard	84 S Standard
7.0 Standard	1413 S Standard
10.0 Standard	

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank 🐣	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS

	Time /345	Depth to Water	Temperature	рН	Conductivity	ORP	DO (%) M4/L	Turbidity (NTU)	Flow Rate
5	MIN	17.35	10,40	7.09	901	- 79.4	0.64	2,36	300 ml
10	MIN	17.60	10,48	6,85	,894	- 174 5	0.51	0,93	300
	5	17,70	10.49	6.76	885	- 81,3	0,45	0,73	300
	20	17.65	10,70	6.79	.888	- 83,8	0.44	0,90	300
	2.5	17,65	10,71	6.81	, 884	. 85.4	0,43	0.71	300
	30		10,71	6.82	0886	- 87.1	0,45	0,68	300
								•	

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WATER SAMPLE OD-3

Time Collected: ノル: ノの

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	clean	clear
Odor	NO	NO
Turbidity <100 (NTU)	NO	NO.
Sheen/Free Product	NO	NO

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	class	6	NO	HU	**************************************
······································	1				
					<u> </u>

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X-1 collected

GORMER POLLUTION ABATMENT SERVICES (PAS OSWEGO)

GROUND WATER SAMPLING LOG

Date	11-7-10	Weather	SUNNY 350
Site Name	PAS Oswego	Well #	Men M-21
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number		Sampling Method	EPA Low Flow Method II
Personnel	M. Koenmaki		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft /0,72	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	X
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

Volume removed before Sampling	ß	gals	
Did Well go dry?		NO	

Measurements Taken From: Well Casting Protective Casting Other:

INSTRUMENT CALIBRATION YSI 556 MPS

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS

Time /c:40	Depth to Water	Temperature	рН	$\frac{\text{Conductivity}}{MS \ \ M}$	ORP	DO (%) My/L	Turbidity (NTU)	Flow Rate
5 MIN	10.70	10.53	7,66	.890	-102,2	0,76	1060	360 ML
10 min	10.70	10.59	7.68	,891	-111.1	0.55	061	300 ml
15 MIN	10,70	10,97	7.71	.902	- 113,8	0.42	e 4.3	300 pt
LOMIN	10,70	10.52	7,71	0890	-121.17	0,30	<u>e</u> 37	300.00
25min	10,70	10.48	7.68	,892	- 122.4	0,30	<u>, 35</u>	300 M
30 MIN	10,70	10,45	7,69	. 891	- 122.8	0.28	,3(p	300ml
				<u> </u>				1

360° Engineering and Project Delivery Solutions



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WATER SAMPLE M-21

11:15 Time Collected:

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	cleur	clean
Odor	NO	NO
Turbidity <100 (NTU)	AIO	NO
Sheen/Free Product	NO	NO

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40ml	gluss	9	NO	HUL	<u></u>
		-			

NOTES

PID RealDing 0.0 PPNI MS/MSD-Collected Equipment BLANK- 10:15



ATTACHMENT B-4

QUARTERLY POTW DISCHARGE REPORTS 4TH QUARTER 2016



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

November 30, 2016

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

Re: 4th Quarter PAS Oswego Discharge Report 2016

Dear Mr. O'Brien,

This quarterly report is submitted in accordance with the City of Auburn Wastewater Discharge Permit 2014-01 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Auburn Wastewater Treatment Facility. This report covers the reporting period from September 2016 through November 2016.

Leachate was transported to the Auburn Public Operated Treatment Plant (POTW) on September 14, 2016, October 5, 2016 and November 9, 2016. A total of 50,000 gallons of leachate were transported to the City of Auburn during the quarter. The total number of gallons of leachate discharged during each month of the quarter is summarized in Table 1. The Leachate Discharge Form documenting the leachate pumping process and completed bills of lading providing the quantities shipped during each discharge event are included in Attachment I. The discharge quantities, as well as date of each discharge event are provided on the bills of lading. Measurements for pH and temperature during the removal event are also recorded on the discharge forms. The PAS discharge was sampled for the pretreatment criteria by OBG on September 14, 2016. These results are provided on Table 1 with copies of the lab reports K1609148 and certification provided in Attachment II.

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

Sincerely, de maximis, inc.

Clay Mc

Clay McClarnon Project Coordinator

Attachment

CMC/akw

cc: PAS Management Committee

f:\projects\3131 - pas\permits-potw 10\2016\auburn\2nd qtr\auburn 2nd qtr 2016 rpt.doc

TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR City of Auburn (2016)LEACHATE DISCHARGE TO City of Auburn WASTEWATER TREATMENT FACILITY(Auburn Wastwater Discharge Permit No.2014-01)

)ischarge Quarter		1Q 2	016	2Q 2	016	3Q 2	016	4Q 2016			
		Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged		
		12/9/15	10,000	3/9/16	10,000	6/15/16	20,000	9/14/16	20,000		
		48/6.8		46/8.0		54/6.8		54/7. 9			
		1/6/16	10,000	4/6/16	10,000	7/13/16	20,000	10/5/16	20,000		
		44/7.9		46/7.6		53/6.8		54/7.8			
		2/3/16	10,000	5/4/16	20,000	8/3/16	20,130	11/9/16	10,000		
		54/8.2		48/7.8		54/6.8					
Total Discharged			30,000		40,000		60,130		50,000		
Date Sampled*	Limit*		12/9/15 & 1/6/2016 **		3/9/2016		6/15/2016		9/14/2016		
Analytes	mg/L		mg/L		mg/L		mg/L		mg/L		
Antinomy Arsenic Barium Cadmium	2 5		0.019 / 0.018 0.13 / 0.35		0.015 0.19		0.011 0.22		0.017 0.019		
Chromium (Hex) Chromium (total) Copper Iron Lead	2 1.5 10 2		0.016 / 0.012 0.024 / 0.033 1.9 / 6.8 ND / ND <0.01		ND <0.01 0.037 2.2 ND <0.01		0.015 0.012 2.9 ND <0.01		ND <0.010 ND <0.010 0.99 ND <0.010		
Mercury Nickel Phosporus Selenium Silver	5 10		0.51 / 0.45 ND / ND <0.2		0.39 ND <0.2		0.36 ND <0.2		0.37 ND<0.20		
Zinc	5 1		0.053 / 0.084 ND / ND < 0.01		0.035 ND < 0.01		ND<0.020 ND < 0.01	· · · · ·	ND<0.020 0.01		
	mg/L		mg/L		mg/L		mg/L		mg/L		
MeCl TCE 1,2 DCE Bhenolics	3 3 3		ND / ND <0.002 0.012 / 0.001 0.091 / 0.12 0.13 / 0.11		ND <0.004 0.00274 0.0652 0.13		ND <0.004 0.00638 0.0652 0.16		0.0005 0.00215 0.149 0.52		
Toluene TKN TSS	5 40 350		0.017 / 0.023 30 / 26 60 /20		0.00854 39 8		0.00294 39 5		0.0408 20 <5		
Discharged Date Sampled* Analytes Antinomy Arsenic Barium Cadmium Chromium (Hex) Chromium (Hex) Chromium (total) Copper Iron Lead Mercury Nickel Phosporus Selenium Silver Zinc Cyanide MeCl TCE 1,2 DCE Phenolics Toluene TKN TSS BOD 5	Limit* mg/L 2 5 10 2 1.5 10 2 5 10 2 5 10 5 1 mg/L 3 3 10 5 40 350 300		30,000 12/9/15 & 1/6/2016 ** mg/L 0.019/0.018 0.13/0.35 0.016/0.012 0.024/0.033 1.9/6.8 ND/ND<0.01 0.51/0.45 ND/ND<0.2 0.053/0.084 ND/ND<0.2 0.053/0.084 ND/ND<0.01 mg/L ND/ND<0.01 0.012/0.001 0.091/0.12 0.13/0.11 0.017/0.023 30/26 60/20 6.5/13		40,000 3/9/2015 mg/L 0.015 0.19 ND <0.01 0.037 2.2 ND <0.01 0.39 ND <0.2 0.035 ND <0.2 0.035 ND <0.01 mg/L ND <0.004 0.00274 0.0652 0.13 0.00854 39 8 17		60,130 6/15/2016 mg/L 0.011 0.22 0.015 0.012 2.9 ND <0.01 0.36 ND <0.2 ND <0.2 ND <0.01 mg/L ND <0.004 0.00638 0.0652 0.16 0.00294 39 5 11		50 9/14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.2014-01.

* Sampled by City of Auburn

Analyte values in bold exceed limit

ATTACHMENT I

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PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel:	RIN X	<u>oennecke</u>	
Transportation Subcontractor:	SUN	ENVIRAMENT	FNC.
Leachate Destination:	POTW	City of AU	BUEN
Date: 9-14-16		· ·	

MARTIN Koennecke Time on-site: 630

Well	Leachate Co Pun	llection Well ping	Well Pumpi Ana	ng Flow Rate lyses	Flow Rate	Remarks
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	·
LCW-1	8:50	10:25	95 MIN 7	8.235 usl	= 86.5 GPn	
LCW-2	8:50	10:25				
LCW-2	NOT Pump	£0				
LCW-4	8:50	10:25				
Leachate Hold	ing Tank: /	4" STIART				
Initial Flow M	eter Reading:	41" STOP				
Final Flow Me	eter Reading	-6.9 ADDED	2016s CA	ISTIC SODA BEA	·DS,	

1ST TANK - TEIMP - 60°; FE-3.0, PH-77.85 SHP TANK - TEMA 540, FE 3.2, PH-7.90

Taad	(Pre	-Loading) Fanker	(Po	ost-Loading) Tanker	Destination	Remarks
LOXO	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	· · · ·
Load #1	7:15	Yes	8:20	52"	0914/8=1	8,000
Load #2	8:25	Yes	8:45	50"	091416-2	2500
Load #3	11:20	yes	11:45	50"	091416-3	2500
Load #4	11:50	Yes	12:50	45"	091416-4	7,000



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel:	MARTIN KORAINERKE	Time on-site:	60:00
Transportation Subcontractor:	NA		
Leachate Destination:	NA		
Date: <u>9-9-16</u>			

	Leachate Co Pum	llection Well ping	Well Pumpir Ana	ng Flow Rate lyses	Flow Rate	Remarks					
ууен	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation						
LCW-1	10:00	11:35	955 MM	1, - 36."=	10,980-114	5 (10,980)					
LCW-2	10:00	11:35									
LCW-3	10:00	10:15									
LCW-4	10:00	11:35									
Leachate Holding Tank: STRET- 12" ADDED 30 lbs CAUSTIC SODA BEADS											
Initial Flow Meter Reading: STOP 48" TEMP-54°, FE-+20100, PH-6,8											
Final Flow M	eter Reading:		-	,							

	(Pre	>-Loading) Fanker	(P	ost-Loading) Tanker	Destination	Remarks
Load .	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest	
Load #1						
Load #2				· · · · · · · · · · · · · · · · · · ·		
Load #3		·				
Load #4						

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PAS Site

Oswego, New York

Leachate Disposal Checklist

Project Personnel:	ATIN KOENNELKE	Time on-site:	12:30
Transportation Subcontractor:	NA		
Leachate Destination:	NA		
Date: 10.3.16			3

Well	Leachate Collection Well Pumping		Well Pumpi Ana	ng Flow Rate lyses	Flow Rate	Remarks	
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	1230	14:35	125 mw	-37.5 x305	= 11,438 -	25 Mar: 91,5	
LCW-2	1230	/4:35					
LCW-2	12:30	12:40					
LCW-4	12:30	14:35			91.5 6PM		
Leachate Hold	ling Tank: /	1' START					
Initial Flow M	leter Reading:	48.5'STOP		_			
Final Flow Me	eter Reading:						

PH-6.85, FE+20, TEMP 54° HODED 30165 CHOSTIC SODH

	(Pre-Loading) Tanker		(P	ost-Loading) Tanker	Destination	Remarks	
Load	Time Confirmed Clean		Time Tanker Volume (by Strick Mass)		Manifest		
Load #1						•	
Load #2							
Load #3							
Load #4							



PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel: MARTIN Koennecke	Time on-site:	10:45
Transportation Subcontractor: SUN ENVROMMENTAL INC.		
Leachate Destination: POTK CITY of HUBURN		
Date:		

Well	Leachate Co Pum	llection Well ping	Well Pumpi Ans	ing Flow Rate alyses	Flow Rate	Remarks			
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation				
LCW-1	9:30	11:10		23, x 305	- 7,015 GH ;	100mm - 701680			
LCW-2	9:30	11:10							
LCW-3									
LCW-4	9:30	/1/10			PUMPED	7,015			
Leachate Holding Tank: 6"START STOP 29"									
Initial Flow Meter Reading: PH-6.8 PE-130, TEMP 540 ADDED 20145 CAUSTIC SODA PH 7.8, FE32, TEMP-541									
Final Flow Me	Final Flow Meter Reading: END FM # 7.8, Teny-54°, FE-3i2								

	(Pre-Loading) Tanker		(Pe	ost-Loading) Tanker	Destination	Remarks	
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest		
Load #1	17:10	Yes	8:15	51″	100516-1	8,000	
Load #2	8'.40	Yes	930	68.5"	100516-2	5,500	
Load #3	11:20	Yes	12:20	412"	100516-3	6,500	
Load #4							

FIRST TANK PH-7.5, Temp 56°, FE 3.0 Ing Second TANK - PH-7.8, Temp 54°, FET3.2 Long



SUBJECT:	PAGE	BYı	DATE	JOB NUMBER:

This Memorandu	Im Is an acknowledgment that a Bill of Lading has been Bill of Lading, nor a copy or duplicate, covering the pro Intended solely for filing or record.	Issued and is not Or perty named herein, a	rlginal and is	Shipper No. ∠ Carrier No	1005 14-71	6-1	
age <u>i</u> of <u>i</u>	》 · · · · · · · · · · · · · · · · · · ·			10 11			
	(Name of	carrier)	(SCAC)	Date/_		<u> </u>	
Collect on Delivery shipments, the felters O: onsignee <u>%747 sadava</u> [945]	COD must appear bolora cansigned's name or as otherwise provided in tiem 430, Sea 1. In the start of the second second second second second second second second second second second second second	FROM: Shipper	TACTIC AND THE AND AND A		_		
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ly <u>Ansternern</u>	State <u>NV</u> Zip Code 13021	24 hr. Emergency Co	315-2 ntact Tel. No	18-6992	······.		
etuc			·	Numbe	9 91		
No. of Units & Container Type	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class,	Packing Group	TOTAL QUANTITY (Weight, Volume, Gailtons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)	
1-11	Non-RCRA, Non-DOT Regulated I	àgnis	\$000	3			
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		mmaniana ar 14					
	JOB# OB&C 0057				_		
	Laid #1			·			
	51"	DEMIT		ļ			
PLACARDS TEN to (1) Where the rate 1s dependen	A on value, shippers are required to state thereby declare that the contents of this requiring of the property as follows:	C.O.D. TO: ADDRESS			_		
concernly in which the agreed of occurs and or declared value of the property is not exceeding	the shows of this property the town to the construction of the property of the	COD	Amt: \$	C.O.D. PREPAI COLLEC			
elease or a value declaration by the s carrier's liability or declare a value, the vided by such provisions. Sae NMFC iter Commodities requiring special or addility is be so marked and packeged as to em	shipper and the shipper does not release carfar's liability shall be limited to the extent in 22. In a lability shall be limited to the extent in 172. In a lability shall be limited to the extent in a lability shall be limited to the extent in a literational and attornal governmental regulations.	Subject to Section 7 of the consignee without recourse following statement: The carder shall not m freight and at other lawful ci	e conditions, il livis stupmani is to be a cn lhe consigner, ihe consigner ake delivery of this shipment witho halges.	delivered to the TOTAL shall sign the CHARG out payment of FRE	ES \$	ies iebor i charpes	
n 360, Bills of Lading, Freight Bills and Contract Terms and Conditions for a list	Statements of Charges and Section 1(e) or		(Signature of Consignor)	except whe right is chee	n boxal Xed (Bre to be collect	
RECEIVED, subject to the property described lents of packages unkr (the word carrier being possestion of the prope ration, if on its route, o aly agreed as to each	The dissifications and faith's in effect on the date of the issue of this Bit of Lading, above in apparent good ords, except as noted (content) as and condition of com- newn), marked, consigned, and destinged as indicated above which said earlier understood throughout this contact as meaning any person or corporation in styl undar the contact) as gross to carry to its usual place of defivery at said desil- therwise to defiver to another cartler on the route to said desileation. It is mutu- carter of all or env of, said property over all or any portion of a definition to das-	tination and as to as be preformed hereund silfication on the data Shipper hereby governing classificat accepted for himself	ch party at any time interested in a ler sheltbe subject to all the bill of ladi of shipmant. y certifies that he is lemitlar with ion and the said terms and conditio and his assigns.	II or any said property, that ng lerms and conditions in the all the lading terms and co ns are hereby agreed to by	avery service to governing clas- onditions in the the shipper and		
HIPPER ไไดโปร์เหน่า	nis Inc.	CARRIER	Sun Envirom	mental Corp		<u> </u>	
ER Math Ku	PER Cremin Carles						
	an an an an an an an an an an an an an a	DATE 10-5	-16				
Permanent post-office address o	of shipper.	STYLE F370-4	©2012 LABELI ^M ASTER® ((800) 621-5808 www.	labelmaster.c	om	
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SUBJECI:		PAGE:	BY	DATE:		3ER:		
This Morrow	randi	is an acknowledgment that a Bill of Lading has been	issued and is r	not Original		Shipper No. 1	<u>0051</u>	<u>6 " 2</u>
	ranuu	Bill of Lading, nor a copy or duplicate, covering the pro Intended solely for filing or record.	perly named he	rein, and is		Carrier No.	ማል ማብ	43
Page <u>1</u> of	r_ <u>1</u>	นี้ธรรม มีโรงหวัน ราชราย (Name ol	<u>r zek (nes)z</u> i cantar)	{	CAC)	Date _	$ \mathcal{A} \leq \mathcal{A} $	16
On Collect on Delivery shipmer	nië, ihe letters	°COD' must appear belozo consignae's name or as otherwise provided in tiem 430, Sec.1.	FROM: Shipper	DeMaxie	ais, Inc			
Consignee 331 these	<u> Poli</u>	ntion (Janto & Mant	Street	703 East	Senenca	Street		
Street 35 Per	ZILLEY	<u>01 4</u>	City _()	swein	St	ate NV	Zip Coo	de
City Autom	/ ///	State NTY Zip Code 12.071	24 hr. Emerger	icy Confact Tel. No.	316 218	<u>4995</u>	<u> </u>	
Route						Vehicle Numbe	307	1203
No. of Units & Container Type	НМ	BASIC DESCRIPTION UN of NA Number, Proper Shipping Name, Hazard Class,	, Packing Group	TOTAL ((Weigh Gallo	QUANTITY , Volume, ns, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carder Use Only)
1-11		Non-RCRA, Non-DOT Regulated Li	quins	5,5	\sim	G		
		(Leachate Water)						
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		JOB# OB&G.0057						
		68.5"					_	
PLACAR Note (1) Where the rate	DS TEN	NDERED: YES NO	REMIT C.O.D. TO; ADDRESS					
pectromy in writing the age		because and in the stated by the chines is the state of t				1000 5	CC.	

specifically in writing the agreed or declared value of the property, as follows: "The	consignment are fully and accurately						
agreed or declared value of the property is hereby specifically stated by the shipper lo be not exceeding (2) Where the applicable turilf provisions specify a limitation of the carder's liability ebsent	described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are	COD Ant: \$	COULECT \$				
 release of a value declaration by the snipper and the snipper does not release the cardor's liability or declare a value, the cartler's liability shall be limited to the extent provided hy such nonvisions. Soe NMFC (liam 172. 	in all respects in proper condition for transport according to explicable international and national covertmental	Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigned without recourse on the consigner, the consigner shall sign the	TOTAL CHARGES S				
(3) Commodilies requiring special or additional care or attention in handling or slowing must be so marked and packaged as to ensure rate transportation. See Section 2(e) of item 360. Bills of Laging, Freight Bills and Statements of Charges and Section 1(a) of	regulations.	The canfer shall not make delivary of this shipment without payment of Irreight and all other lawful charges.	FREIGHT CHARGES				
the Contract Terms and Conditions for a list of such articles.	Signature	(Signature of Consigner)	right is checked Collect				
RECEIVED, subject to the classifications and tartifis in eliceit on the date- tite property desorted above in apparent good cafe, except is a noted tonis of package being unknown), marked, consigned, and desired as inf (the varid carries being unknown) marked, consigned a desired as inf (the varid carries being unknown) and and a subject to a subject to a subject to a subject to a subject to a subject of the subject to a subject of the subject of the subject of the subject of the subject of the subject of a subject of the sub	of the Issue of this BBI of Lading, (contents and countilion of con- leated above which said conterner ig any person or copporation in I place of delivery at said dosti- to said destination. It is mulu- ny portion of said route to des-	tination and as to each party at any timo Interested in all or any said property, that every service to be exformed hereinder shall be subject to all the bit of tading terms and confilms in this governing class elification on this date of albumant. Shipper hateby certifies that he is familiar with all the fading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.					
SHIPPER		CARRIER					
PER 111 - Function		PER C					
- 1 der of the most and		DATE MAN 10/5116	U				
Permanent post-office address of shipper.	É LOPE	STYLE F370-4 @ 2012 LABEL ASTER @ (800) 621-58	.08 www.labelmaster.com				


SUBJECT:	PAGE:	BY:	DATE:	JOB NUMBER:

This Memo	vrandi	is an acknowledgment ti	ے nat a Bill of Lading has been i	issued and is not Orig	inai	Shipper	No. 1005	16-3
	nanat	Bill of Lading, nor a copy intended solely for filing	or duplicate, covering the prop or record.	erty named netern, an	uis	Carrier	No. <u>78.78</u>	0
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On Collect on Delivery shipm	ionts, the lotters	: "COD" must appear before consignee's name of a	as olhenvisë provided in item 430, 5ec.1.	Shipper	<u>Maximis, Inc</u>		- ,	
Consignee Will wat	ra Poll	ution Control Plant		Street 70	3 East Senent	n Street		
Street 2 C IP	111111111	K tri cat		City Oswaw	0	State 💦	Y Zip Co	de
City Anolis	12 UF1923	State NY	Zip Code <u>13,879 1</u>	24 br Emergency Cont	act Tel. No. 314.21	8 6004		
				24 m. Lind 36 av			Vehicle Number	
No. of Units	ни	E UN or NA Number, Proper	ASIC DESCRIPTION Shipping Name, Hazard Class,	Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subje Correc	HT cl to RATE Non)	CHARGES (For Carrier Use Only)
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		JOE# 0.84.G.0067						
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		42"						
PLACA	RDS TE	NDERED: YES 🗂 NO 🛱		REMIT C.O.D. TO:				
Note — (1) Where the ra specifically in writing the a agreed or declared value of the set excession	ate is copenci agreed or dec of the property	lated value of the property, as follows. The is hereby specifically stated by the shipper to over	consignment are fully and accurately dascribed above by the proper shipping name and are classified, packaged,	COD	Ami: \$	<u></u>		
(2) Where the applicable ta a release or a value dec the carrier's liability or decl	rill provisions s laration by the lare a value, th	pecify a limitation of the carrier's liability absent a shipper and the shipper doos not release to carrier's liability shall be limited to the extent	marked and labellad/placarded, and are in all respects in proper condition for transport according to applicable	Subject to Section 7 of the	contitions, if this shipment is to i	or shall algo the	TOTAL CHARGES \$	
provided by such provision: (3) Commodities requiring must be so marked and pa	s. See NMFC II special or add ickaged as to e	em 172. litional care or atteniton in handling or slowing ansure sale transportation. See Section 2(e) of A Distances of Chartes and Section 1(e) of	internations) and hallonal governmental regulations.	following sistement: The carter shall not mai freight and all other fawful che	ka dalivary of this shipment wi argos.	thout payment of	FREIGHT CHAI FREIGHT PREPAID C	RGES heckbox if charges
item 360, Bitls of Lading, the Contract Terms and Co	ondilions for a l	list of such articles.	of the issue of this Bill of Leding.	Brailon and as to each	(Signature of Consignor) b party of any lime interested in	all or any said pr	right is checked	L collect
neo the pi ients (ihe t poss nation alive	roperty describit of packages un word carrier bal ession of the pro- n, it on its route preed as to day	b) di casancearca quo do ridar, oxcept as noted hknown), marked, consigned, and doslinad as inn ng underslood (hiroighout this contracts as maan ng underslood (hiroighout this contracts as maan party under the contract) agress to carry lo its usu otherwise to deliver to another cartier on the rou- de cartier o all or any o, said orcopaty over all or	(contents and condition of con- licated above which said carrier ng any person or carcoration in al place of delivery at said desti- te lo said destination. It is mutu- any portion of said route to des-	be performed herounde sification on the date o Shipper horeby governing classificatio accepted for himsell a	r shall be subject to all the bill of 3 31 shipmeni. certifies that he is familiar wi in and the said terms and cond and his assigns.	ading lorms and con th all the lading b itions are hereby a	nditions in the governing cla emas and conditions in th greed to by the shipper at	s, ne nd
SHIPPER	б	o Imo		CARRIER	<u></u>			
PER	jankki a Ve	Fundre		PER Caen	ner 1410	52	··· ** -	₽
·				date 10.	5-16			
Permanent post-off	ice address	of shipper.	BISSYLIK.	STYLE F370-4 C	2012 LABELIMASTER	Ø (800) 621-58	08 www.labelmaste	r.com
		-						
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PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel:

MARTIN KOENnecke

Time on-site: 7.'00

Transportation Subcontractor: SUN ENVIRIMENTAL Leachate Destination: _________AUBILIES

Date: 11-8-110/11-9-110

Well	Leachate Co Pum	Leachate Collection Well Pumping		g Flow Rate yses	Flow Rate	Remarks
	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation	
LCW-1	12:25	14:00	95 MIN	34,5"	10,527	110 blin
LCW-2	12:25	14:00				
LCW-3	12:25	12:30				
LCW-4	12:25	14:00				
Leachate Ho	olding Tank: STA	u- 7.5"	END-	મરુ″		
Initial Flow	Meter Reading:	PH- 6.1	, FE +2	O MIA 5	;4°	
Final Flow I	Meter Reading:	ADDED Sol	bs C.A. STIC	58165		<u> </u>

11-9-110 ---- PH-8.0 FE 1.4 Mly Tena. 50'

	(Pre-Loading) Tanker		(P	ost-Loading) Tanker	Destination	Remarks	
Load	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest		
Load #1	7:15	Yes	7:55	52"	110916 -1	4,000	
Load #2	8:05	Yes	9:00	42"	110916 -2	6,000	
Load #3							
Load #4							

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SUBJECT:	•		PAGE:	BY:	DATE:	JOB NU	MBER:	
his Memorandum	s an acknowledgment t till of Lading, nor a copy ttended solety for filling	hat a Bill of Lading has been it or duplicate, covering the prop or record.	ssued and is not erty named herel	Original n, and is		Shipper No.	1109	16-1
Page <u>1</u> of <u>1</u>		Server Brown Brown (Name of	atal Corp. carrier)	(8)	 DAC)	Date	11-9	-16
n Collect on Delivary shipmanis, the letters "COD" must	abbeat perote cousidure, a vatue di	ras olherwise provided in (lem 430, Sac. 1.	FROM: Shipper	DeMaxi	mis, Inc	· · · · · · · · · · · · · · · · · · ·		
consignee way stars in the star find	n Control Plan	it	Street	703 Eas	<u>í Senenc</u>	s Street	·	
treet 35 Bradley Str	eet	Zin Codo	City C	emegu -	St	ate MY	Zip Coo	de
AND DITE		<u>- 13021</u>	24 hr. Emergeno	y Contact Tel. No. ,	<u>315-21</u>	Vehi Num	cle ber	
No. of Units & Container Type HM U	N or NA Number, Proper	BASIC DESCRIPTION Shipping Name, Hazard Class,	Packing Group	TOTAL ((Weight Gallor	WANTITY Volume, he, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Onty)
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PLACARDS TENDEREL te - (1) Where the rate is dependent on value, collically in writing the agreed or declared value of	Shippars are required to state the property, as follows: "The) hereby declare that the contents of this consignment are fully and accurately	Remit C.O.D. TO: Address					
read or declared value of the property is hereby spe- not exceeding Where the applicable tariff provisions specify a limital release or a value declaration by the shipper and	cilically clated by the shipper to hon of the carifar's lability absent i the shipper does not release	described above by the proper shoping name and are classified, packaged, marked and tabelled/piccerded, and are in all respects in proper condition for	COD	Amt: 5	6	C.O.I PREF COLL	AID D ECT D S	
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RECEIVED, subject to the classifica ina property described above in reg tents of package unknown), mark (ha word carrier being understood possession of the property under the nation, if on its route, otherwise to ally agreed as to each carrier of all	tions and latifs in effect on the dele- parent good order, except as noted ad, consigned, and desitied as in throughout this contract as mean a contract) agrees to carry to its usu- teliver to another carriar on the rour or any of, as dip caparty over all ar	of the issue of this bill of Lating, (contents and condition of con- licated above which said cardier ng any person or exception in at place of delivery at said deati- te to and destination. At is mutu- any pontion of said route to dea-	Unation and as be parlomed ha silication on the Shipper h governing class accepted for hid	to each party at any time reunder shall be subject to date of shipment. areby certilion that he liteation and the said for nself and his assigns.	a interested in all or : all ina bill of lading le is familiar with all th may and conditions a	any said property, in rma and conditions in ne lading terms and ne hereby agreed to	at every service to the governing clas- conditions in the by the chipper and	
HIPPER Ber Martin Loens	he			- Snn En prin /	viranary	ntal Corp		_3
ermanent post-office address of shipper	Mailloon acceloration		DATE //. STYLE F370	9-16 3 82012 LABEL	MASTER [®] (80)	D) 621-5808 ww	w.labelmaster.	com
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reet	ta Fol Tadley	when Control Plan Street		Street	703 Cast	Newenca A Stat	itrect: •	Zip Cot	le
^у Анф		State NT	Zip Code 13021	24 hr, Emergency	Contact Tel. No.	<u>-315-218-(</u>	F995	<u> </u>	
nie	·		BACIO DEGODIDIOLI		TOTAL	MANTITY	Vehic Numb	ler Zor	CHARGES
No. of Units & Container Type	HM	UN or NA Number, Proper	Shipping Name, Hazard Class,	Packing Group	(Weight Gallor	, Volume, hs, etc.)	· (Subject to Correction)	RATE	(For Carrie Use Only)
<u>1-1T</u>		<u>Non-RCRA, Non-</u> (Leachate Water)	<u>DOT Regulated Li</u>)	i <u>ģnids</u>		000	<u>G</u>		
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	·		42"						
PLACA	RDS TEN	DERED: YES D NO		Remit C.O.D. TO:		<u> </u>			
(1) where the rate litesity in writing the sy ed or declared value of at exceeding where the spolicable tarii	e is dependen gread or declar the property is forovisions soe	t ori value, singleri his required to state red value of the property, as follows: "The hereby specifically stated by the shipper to redy a limitation of the cariter's liability absent	I hereby declare that the contents of itra consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labella/blacarded, and are	ADDRESS ADD			C.O.D. PREPA COLLE	FEE: ND 10 CT 10 S	
tease or a value decla carter's flability or declar (ded by such provisions. Commedilies requiring s to be so marked and par to be so marked and par a 360, Sille of Lading, Fr Contract Terms and Con	ration by the s re a value, the Sea NMFC lien pecial or addition kaged as to ensi- eight Bills and militons for a liai	shipper and the shipper does not release camie's fability shall be tirrited to the extent n 172. In a came or sitention in handling or stowing sure safe transportation, See Section 2(e) of Statements of Charges and Section 1(a) of to such articles.	in all respects in proper condition for transport seconding to applicable international and national governmental regulations. Signature				EIGHT CHARC PREPAIO Chec entour at	\$ HARGES Check box if charges are to be	
RECEL the pro- tents of (the wo posses nation, alivan,	VED, subject to party described f packages units of carifer being sion of the prope it on its route, o ead as to each	the classifications and tarills in effect on the data above in apparent good order, except as noted rown), marked, consigned, and dealined as in underflate contract as mention infy under the contract as mention therwise to deliver is another carrier on the arx carrier of all or eavy of, said property vera all as	of the issue of this Bill of Lading, (contents and condition of con- ficated above which said carrier ing any preson or corporation in al piace of detivery at said deali- te to said dealination. It is mulu- any portion of said totals to das-	tination and as k be pedemad hex sliteaten on the Skipper he governing classi eccepted for him	each party al any time under shall be subject to state of shipment. reby certifies that he i cation and the said ten saif and his assigns.	a interested in all or any all the bill of lading term is familiar with all the ma and conditions are i	r said property, that s and conditions in th faoling terms and o hereby agreed to by	every service to regoverning clas- conditions in the the shipper and	
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ermanent po st-offic	e address o	f shipper. (References to the second	A ESOY INK.	8TYLE F370-	@2012 LABEL	*[ASTER @ (800)	621-5808 www	r.labelmaster.c	om .

ATTACHMENT II

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Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Clay McClarnon Signature: Clay Me Marmon

Title: Project Coordinator

Date: 11/30/16

Phone: 865-675-7963

LSL Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 (315) 445-1900

Tuesday, October 11, 2016

Mark Byrne O'Brien & Gere Operations, LLC. 7600 Morgan Road Liverpool, NY 13090

TEL: 315-637-2234

Project: PAS OSWEGO, 4TH QUARTER LEACHATE SAMPLES

RE: Analytical Results

Order No.: K1609148

Dear Mark Byrne:

Life Science Laboratories, Inc. received 2 sample(s) on 9/14/2016 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.

David J Prichard Project Manager



LSL State Laboratories, Inc. 5854 Butternut Drive

Analytical Results

East Syracuse , NY 1	3057 (315)	445-1900		S	tateCertN	lo: 10248	
CLIENT: O'Brien & Gere Operations, LLC. Project: PAS Oswego, 4th Quarter Leachate Samples W Order: K1609148			La Ci	ab ID: lient Sample ID:	K1609148-001C : Tank Effluent Leachate, 09/14/16		
Matrix: WATER			C D	ollection Date: ate Received:	09/14/16 09/14/16	12:00 14:28	
Analyte	Result	Qual	PQL	Units	DF	Date Analyzed	
TOTAL METALS BY ICP	······································		EPA 20)0.7	(E20	0.2)	
Arsenic	0.017		0.010	mg/L	1	09/20/16 12:24	
Barium	0.19		0.10	mg/L	1	09/20/16 12:24	
Chromium	ND		0.010	mg/L	1	09/20/16 12:24	
Copper	ND		0.010	mg/L	1	09/20/16 12:24	
lron	0.99		0.050	mg/L	1	09/20/16 12:24	
Lead	ND		0.010	mg/L	1	09/20/16 12:24	
Nickel	0.37		0.010	mg/L	1	09/20/16 12:24	
Zinc	ND	,	0.020	mg/L	1	09/20/16 12:24	

Qualifiers:

* Value may exceed the Acceptable Level

E Value exceeds the instrument calibration range

- Analyte detected below the PQL
- l
- Prim./Conf. column %D or RPD exceeds limit P
- 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

Analytical Results

East Syracuse,	NY 13057 (315) 445-1900	5	stateCertNo: 10248
CLIENT: O'Brien & Project: PAS Oswey	Gere Operations, LLC. 30, 4th Quarter Leachate Samples	LabID: Client Sample ID:	K1609148-001E Tank Effluent Leachate,
WorkOrder: K1609148			09/14/16
Matrix: WATER		Collection Date:	09/14/16 12:00
		Date Received:	09/14/16 14:28
Inst. ID: Traacs	Sample Size: NA	PrepDate:	
ColumnID;	%Moisture:	BatchNo:	R30294
Revision: 10/04/16 14:3:	5 TestCode NH3350.1	FileID:	1-SAMP-
Col Type:			
Analyte	Result Qual PC	QL Units	DF Date Analyze
AMMONIA (AS N) NON-D	STILLED	EPA 350.1	
Ammonia (as N)	24 1.0) mg/L	10 10/03/16

NOTES:

As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis is greater than the established limit.

Qualifiers:

* Value may exceed the Acceptable 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

LSL Eas	ife Science 4 Butternut Drive at Syracuse, NY 13	Laboratorie	es. Inc	. <i>1</i>	Analyti StateCertNo:	cal Results
CLIENT: Project:	O'Brien & Gere C PAS Oswego, 4th	Dperations, LLC. Quarter Leachate Samp	les	LabID: Client Sample ID:	K1609148- Tank Efflue 09/14/16	001E nt Leachate,
WorkOrder: Matrix: Inst. ID: 7 ColumnID: Revision: 0 Col Type:	K1609148 WATER Traacs 9/28/16 12:00	Sample Size: 50 m %Moisture: TestCode TP365.1	L	Collection Date: Date Received: PrepDate: BatchNo: FileID:	09/14/16 12: 09/14/16 14: 09/27/16 0:0 22654/R302 ⁻ 1-SAMP-	00 28 0 78
Analyte		ResultQua	I PQL	Units	DF	Date Analyza
PHOSPHORU Phosphorus, To	IS, TOTAL (AS P) tal (As P)	ND	0.20	EPA 365.1 mg/L	(E	EPA 365.1) 09/27/16

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

Page 2 of 7

Analytical Results

Eas	t Syracuse, NY 1	3057 (315) 445-1	900	S	stateCert	No: 10248
CLIENT: Project:	O'Brien & Gere PAS Oswego, 4t	Operations, LLC. h Quarter Leachate Samp	les	LabID: Client Sample ID:	K16091 Tank Eff	48-001E Inent Leachate,
WorkOrder:	K1609148	ζr		K	09/14/16	·
Matrix:	WATER			Collection Date:	09/14/16	12:00
				Date Received:	09/14/16	14:28
Inst. ID: T ColumnID:	Taacs	Sample Size: 20 ml %Moisture:		PrepDate: BatchNo:	09/20/16 22634/R3	0:00 80271
Revision: 09 Col Type:	9/26/16 8:58	TestCode TKN351	.2	FileID:	0-SAMP-	
Analyte		Result Qua	1 PQL	Units	DF	Date Analyze
KJELDAHL NI	TROGEN - TOTA	L (AS N)		EPA 351.2		(EPA 351.2)
Kjeldahl Nitroger	1 - Total (as N)	20	2.0	mg/L	20	09/23/16

B Analyte detected in the associated Method Blank Qualifiers: * Value may exceed the Acceptable Level H Holding times for preparation or analysis exceeded E Value exceeds the instrument calibration range ND Not Detected at the Practical Quantitation Limit (PQL) J Analyte detected below the PQL S Spike Recovery outside accepted recovery limits P Prim./Conf. column %D or RPD exceeds limit Page 3 of 7

Date: 10/11/16 7:33

Project Supervisor: David J Prichard

Analytical Results

East Syracuse, NY 1	3057 (315) 445-1900	S	stateCertNo: 10248
CLIENT: O'Brien & Gere Project: PAS Oswego, 4t	Operations, LLC. h Quarter Leachate Samples	LabID: Client Sample ID:	K1609148-001D Tank Effluent Leachate, 09/14/16
WorkOrder: K1609148 Matrix: WATER Inst. ID: AA3 ColumnID: Revision: 09/26/16 9:02	Sample Size: 50 mL %Moisture: TestCode CN335.4W	Collection Date: Date Received: PrepDate: BatchNo: FileID:	09/14/16 12:00 09/14/16 14:28 09/26/16 0:00 22635/R30272 0-SAMP-
Analyte	ResultQual PQL	Units	DF Date Analyzı
CYANIDE, TOTAL Cyanide, Total	0.010 0.010	EPA 335.4 mg/L	(EPA 335.4) 1 09/23/16

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

Project Supervisor: David J Prichard

Analytical Results

Eas	t Syracuse, NY 13	057 (315) 445-1	900	S	itateCertNo: 1	0248
CLIENT: Project:	O'Brien & Gere O PAS Oswego, 4th	perations, LLC. Quarter Leachate Samp	les	LabID: Client Sample ID:	K1609148-0 Tank Effluent	01B t Leachate,
WorkOrder: Matrix:	K1609148 WATER			Collection Date: Date Received:	09/14/16 12:0 09/14/16 12:0	0 8
Inst. ID: C ColumaID: Revision: 0	ENESYS 20 9/19/16 8:41	Sample Size: 500 n %Moisture: TestCode PHEN42	nL 20.1	PrepDate: BatchNo: FileID;	09/15/16 0:00 22591/R30242 0-SAMP-	2
Col Type: Analyte		ResultQua	I PQL	Units	DF	Date Analyze
PHENOLICS, Phenolics, Total	TOTAL RECOVER	ABLE 0.52	0.0050	EPA 420.1 mg/L	(E F	PA 420.1) 09/16/16

NOTES:

As per NELAC regulation disclosure of the following condition is required; The result of the laboratory control sample was less than the established limit.

. .. Qualifiers:

Value may exceed the Acceptable 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

Date: 10/11/16 7:33

Project Supervisor: David J Prichard

Page 5 of 7

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Life Science Laboratories. Inc. 5854 Butternut Drive

Analytical Results

East	Syracuse, NY 13	3057 (315) 445-1	900	2	stateCertNo: 1	0248
CLIENT: Project:	O'Brien & Gere C PAS Oswego, 4th	perations, LLC. Quarter Leachate Samp	les	LabID: Client Sample ID;	K1609148-0 Tank Effluent	01A Leachate,
WorkOrder:	K1609148				09/14/16	
Matrix:	WATER			Collection Date: Date Received:	09/14/16 12:00 09/14/16 14:20) 3
Inst. ID: DC ColumnID:) Meter	Sample Size: NA %Moisture:		PrepDate: BatchNo:	09/15/16 14:58 R30250	}
Revision: 09/ Col Type:	/21/16 8:05	TestCode BODSM	5210B	FilelD;	0-SAMP-	
Analyte		Result Qua	I PQL	Units	DF	Date Analyz
BIOCHEMICAL	OXYGEN DEMA	ND (BOD5)		SM 5210B-01	,-11	
Biochemical oxyg	en demand (BOD5)	12	4.0	ma/L	1	09/15/16

 Qualifiers:
 *
 Value may exceed the Acceptable 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

Date: 10/11/16 7:33

Project Supervisor: David J Prichard

LSL East	ife Science 54 Butternut Drive 55 Syracuse, NY 136	Laboratories. Inc		Analy1	tical Results
CLIENT: Project: WorkOrder:	O'Brien & Gere Og PAS Oswego, 4th (K1609148	perations, LLC. Quarter Leachate Samples	LabID: Client Sample ID:	K160914 Tank Effli 09/14/16	8-001A uent Leachate,
Matrix: Inst. ID: F ColumnID: Revision: 0 Col Type:	WATER Fisher balance XA 19/20/16 11:57	Sample Size: NA %Moisture: TestCode TSS2540D	Collection Date: Date Received: PrepDate: BatchNo: FileID:	09/14/16 1 09/14/16 1 R30247 0-SAMP-	2:00 4:28
Analyte		Result Qual PQL	Units	DF	Date Analyzı
RESIDUE-NO Residue-non-filt	N-FILTERABLE (TS	S) ND 5.0	SM 2540 D-97 mg/L	7,-11	09/15/16

NOTES:

This sample analysis did not meet the method required minimum residue weight. Therefore, this result should be considered an estimate.

Qualifiers:

- E Value exceeds the instrument calibration range
- Analyte detected below the PQL J
- 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 854 Butternut Dri Cast Syracuse, NY	ce Laboratories lve ? 13057 (315) 445-19	8, Inc	•	Analy StateCertN	tical Results	
CLIENT	O'Brien & Gere (Operations, LLC.	Lab ID:	K160914	48-001F		
Project:	PAS Oswego, 4th	Quarter Leachate Samples		Client Sample ID;	Tank Eff	luent Leachate,	
W Order:	K1609148				<i>UY/14/1</i> 0		
Matrix:	WATER			Collection Date: Date Received:	09/14/16 09/14/16	12:00 14:28	
Inst. ID:	MSK_75	Sample Size 10 mL		PrepDate:			
ColumnID:	Rtx-VMS	%Moisture:		BatchNo:	R30284		
Revision:	09/30/16 7:36	TestCode 8260W_()LM42	FileID:	1-SAMP-	R1882.D	
Col Type:							
Analyte		ResultQual	PQL	Units	DF	Date Analyzed	
VOLATILE	ORGANIC COMP	OUNDS BY GC/MS		SW8260C/503	90C		
Methylene chi	oride	ND	20.0	µg/L	10	09/16/16 19:03	
trans-1,2-Dich	loroethene	ND	5.00	µg/L	10	09/16/16 19:03	
cis-1,2-Dichlo	roethene	123	5.00	μg/L	10	09/16/16 19:03	
Trichioroethen	ê	18.7	5.00	µg/L	10	09/16/16 19:03	
Toluene		35.4	5,00	μg/L	10	09/16/18 19:03	
Surr: 1,2-Di	ichloroethane-d4	108	75-130	%REC	10	09/16/16 19:03	
Surr: Toluer	ne-d8	98	75-125	%REC	10	09/16/16 19:03	

75-125

%REC 10

09/16/16 19:03

98

Qualifiers:	4	Value may exceed the Acceptable Level	В	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	Ś	Spike Recovery outside accepted recovery limits

Surr: 4-Bromoliuorobenzene

	Life Scienc 8854 Butternut Dri Cast Syracuse, NY	e Lab ve 13057	oratori (315) 445-	es, Inc	•		tical Results
CLIENT	O'Brien & Gere O	perations,	LLC.		Lab ID:	K160914	8-002A
Project:	PAS Oswego, 4th	Quarter Le	achate Sample	es	Client Sample ID:	Trip Blan	k
W Order:	K1609148				-		
Matrix:	WATER O				Collection Date:	09/14/16 ():00
	·····				Date Received:	09/14/16	14:28
Inst. ID:	MSK_75	Sam	ple Size 10 n	nL	PrepDate:		
ColumnID:	Rtx-VMS	%M	loisture:		BatchNo:	R30284	
Revision:	09/30/16 7:36	Test	Code 8260W	OLM42	FileID:	1-SAMP-F	R1898.D
Col Type:							
Analyte			Result Qu	al PQL	Units	DF	Date Analyzed
VOLATILE	ORGANIC COMPO	UNDS BY	GC/MS		SW8260C/503	30C	
Methylene chi	oride		ND	2.00	µg/L	1	09/17/16 3:48
trans-1,2-Dich	loroathene		ND	0.50	µg/L	1	09/17/16 3:48
cis-1,2-Dichlo	roethene		ND	0.50	µg/L	1	09/17/16 3:48
Trichloroether	le		ND	0.50	µg/L	1	09/17/16 3:48
Toluene			ND	0.50	µg/L	1	09/17/16 3:48
Surr: 1,2-Di	ichloroethane-d4		108	75-130	%REC	1	09/17/16 3:48
Surr: Tolue	ne-d8		101	75-125	%REC	1	09/17/16 3:48
Surr: 4-Broa	mofluorobenzene		105	75-125	%REC	1	09/17/16 3:48

Qualifiers:	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
-	Е	Value exceeds the instrument calibration range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

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					-			KI	6091	48			•
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lient Contact: MARK BYRNE P	hone	# 315-	842-7	олч		1 /	, ²		5/	۶Ì		5/	QUANTERL
Sample Desc	cript	on		<u></u>	····	1/4	$\mathbb{E}/1$	¥/ /		Ξ,	§/ .	3/	
Sample Location	Dati Collec	Time	d Matrix	Comp. or Grab	No. of Containers	$/\kappa$					5 3		Comments
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Sample Receipt Checklist

Client Name: OGINA PAS		Date and Time Received:	9/14/2016 2:28:00 PM
Work Order Number: K1809148		Received by: rsd	
Checklist completed by:	<u> </u>	Reviewed by:	5/281K
Delivery Method	Hand Delivered	1	
Shipping container/cooler in good condition?	Yes 🗹	No 🗋 Not Present 🗌	l
Custody seals intact on shipping container/cooler?	Yes 🗀	No 🗋 🛛 Not Present 🗹	
Custody seals intact on sample bottles?	Yes 🗆	No 🗌 🛛 Not Applicable 🗹]
Chain of custody present?	Yes 🗹	No 🗀	
Chain of custody signed when relinquished and received?	Yes 🗹		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗔	
Samples in proper container/bottle?	Yes 🗹	No 🗖	
Sample containers intact?	Yes 🗹	No 🗖	
Sufficient sample volume for indicated test?	Yes 🗹	No 🗔	
All samples received within holding time?	Yes 🗹	Νο	
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗔	
Water - VOA vials have zero headspace?	Yes 🗹	No 🗌 🛛 No VOA vials subm	itted 🗔
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌 Not Applicable 🗌]

Sample ID

рH	Preservative	pH Acceptable	_
>12	NaOH	Yes 🗹 N 🗆 NA 🗆	
<2	HNO3	Yes 🗹 N 🗔 NA	
<2	HSO4	Yes 🗹 N 🗆 NA 🗍	
<2	1:1 HCL	Yes 🗆 N 🗔 NA 🗹	
5 -9	Pest/PCBs (608/8081)	Yes 🗆 N 🗔 NA 🗹	l

Volume of Preservative added in Lab.

Comments:

Corrective Action:

;

ATTACHMENT B-5

INSTITUTIONAL CONTROLS CERTIFICATION MEMORANDUM

PAS OSWEGO SUPERFUND SITE

Institutional Controls Implementation Plan Annual Certification November 9, 2016

REQUIREMENT: The Institutional Control Implementation Plan (ICIP) for the PAS Oswego Superfund Site (Site) as approved by USEPA includes requirements for the period following the execution and recording of the Easement, which were documented in the approved Remedial Action Completion Report. It states that following implementation of institutional controls on the Industrial Precision Products Property, the Site will be inspected on an annual basis to determine whether any intrusive activities have occurred. In addition, building and property records will be reviewed to ascertain whether or not any filings have been made for such activities. The ICIP provides for an annual report summarizing the findings of the inspection and record review to be prepared, along with a certification confirming that operation and maintenance activities continue, and that this annual report would be included with the OM&M progress report to be submitted to EPA in July of each year.

CERTIFICATION: The PAS Oswego annual Site and records inspection was performed by de *maximis, inc.* on November 9, 2016. During this visit an inspection was made of the PAS Oswego Site during a monthly operation leachate removal event. This Site inspection was scheduled to allow a visit with a representative of Industrial Precision Products to determine if any intrusive activities may have occurred on their property since the Remedial Action Completion Report was approved in August 2006. *de maximis* also contacted representatives of the City and County to confirm that no potential filings were made to install wells on the Industrial Precision Property. Based on results of the Site and records inspection, a determination has been made that no intrusive activities have occurred or are planned on the Industrial Precision Control Property and that the operation and maintenance activities at the PAS Oswego Site are continuing in accordance with the requirements of Consent Decree. II-C

1st QUARTER REPORT 2017

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<u>QUARTERLY PROGRESS REPORT – 2nd QUARTER 2017</u> Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: Pollution Abatement Services Site Oswego, New York

PERIOD COVERED: January – March (1st Quarter) 2017

ACTIONS TAKEN DURING QUARTER:

- Leachate removal and site maintenance and monitoring activities were conducted at the Pollution Abatement Services (PAS) site (Site), in Oswego, NY by OBG Operations LLC (OBG) consistent with the PAS Site Operation, Maintenance and Long-term Monitoring Plan (Work Plan).
- A total of 30,020 gallons of leachate were removed from the Site during the period of January, February and March 2017. Specific quantities of leachate removed included 10,010 gallons in January, 10,005 gallons in February and 10,005 gallons in March. Details of the leachate removal for each month, along with historical leachate removal documentation are described in this progress report.
- During the months of January March 2017, leachate was pumped monthly from the PAS Site. The leachate was pumped into the City of Oswego East Side Wastewater Treatment Plant in accordance with City of Oswego Industrial User Permit no. 6-2017-18.
- Quarterly groundwater elevation monitoring was performed on February 15, 2017. Quarterly groundwater elevation monitoring results for the SWW- series monitoring wells (SWW-1 through SWW-12), leachate collection wells (LCW-1 through LCW-4), M-series wells (M-21 through M-23), LR-series wells (LR-2, 3, 6 and 8), LD-series wells (LD-3, 4, 5, 6, and 8), along with wells OS-1, OS-3, OI-1, OD-3 and LS-6 were recorded on the Pre-Pumping Well Monitoring Level Form. (Attachment C-1)
- Site maintenance activities were conducted monthly in combination with the monthly leachate removal event. The Site Inspection Checklist was used to document the land cap, leachate discharge system, leachate collection system and general Site conditions. (Attachment C-2) Monthly Site maintenance activities included the following:
 - Inspected the perimeter security fence of the Site. No discrepancies were reported at the time of the inspection.
 - The Site single French drainage system and two (2) concrete troughs were visually inspected. No discrepancies were reported at the time of the inspection.
 - Visually inspected the Site slurry-wall containment vegetated cap for signs of burrowing vermin or surface anomalies. Snow was covering the Site during the February inspection. No discrepancies were reported at the time of the inspections.



- 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 were 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 were inspected. No discrepancies were reported at the time of the inspection.
- On January 11, February 15, and March 7, 2017, OBG performed the monthly pre-pumping collection system inspection for leachate collection wells LCW-1, 2, 3 & 4, along with inspection of the leachate discharge pumping system. Observations were recorded on the Site Inspection Checklist. In advance of each leachate removal event, OBG informed the City of Oswego POTW of the anticipated discharge. (Attachment C-2)
- Upon completing the monthly leachate collection system inspections, OBG manually energized the 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, was recorded on the Leachate Disposal Checklist. (Attachment C-2)
- During the months of January, February and March 2017, OBG pumped a combined total of 30,020 gallons of leachate from LCW 1, 2, 3 & 4 into the leachate collection tank and then into the City of Oswego POTW. The volume and flow rate of each leachate discharge was recorded onto the Leachate Disposal Checklist, as was leachate water pH, and temperature. The amount discharged was recorded onto the Leachate Disposal Checklist. No leachate was shipped to Auburn New York during the period. Therefore, no bill of lading was generated in this period. (Attachment C-2)
- Upon completing each monthly leachate discharge the tank suction hoses were placed back into the leachate hold tank and the leachate pump system was shut down and prepared for storage. The concrete leachate hold tank was secured, as was the wooden maintenance shed. Upon the completion of monthly Site activities, the Site metal access gates were closed and padlocked.
- The PAS Oswego Site quarterly discharge report for the 1st quarter of 2017 for the City of Oswego was submitted on April 13, 2017 in accordance with Permit 6-2017-18. The quarterly report to the City of Auburn was submitted on March 20, 2017. (Attachment C-3)

DOCUMENTATION OF REMOVAL ACTIVITIES FOR PREVIOUS QUARTER

• The Groundwater Pre-Pumping Well Monitoring Level Form for February 15, 2017 is attached to this report. (Attachment C-1)



- The Site Inspection Checklist for January 11, February 15 and March 7, 2017 are attached to this report. (Attachment C-2)
- The Leachate Disposal Checklist for the January 11, February 15 and March 7, 2017 are attached to this report. (Attachment C-2)
- The PAS Quarterly Discharge reports submitted on March 20, 2017 to the City of Auburn and the report submitted to the City of Oswego on April 13, 2017 are attached to this report. (Attachment C-3)

ATTACHMENT C-1

GROUNDWATER ELEVATION DATA

.

O'Brien & Gere Operation (O'Brien & Gere) PAS Oswego Site Oswego, New York Pre-Pumping Well Monitoring Levels

Date - 2	-15-1	7		Technician -	MAI	CTIN 1	KOEN	Nec K.	L	Month - February
Well	Riser	Well	Range Verific	ation	100.00	«Monthly.0	nșite Field	Measurer	nents	Construction of the second
Number	Elevation	Average Well Level	Low Well Level	High Well Level	Well/Level ((1st) Check	Well Layel (2hd) Check	Well With thated on hi range YES	in Range (d)tal wells (d)a (NO	Wel) Level Check (3rd) (I) NO? & walts not within largeed rated)	NOTES:
SWW1	289.33	9,16	8.11	9.74	8.62	8,62	V			-
sww2	289.37	15.66	15.05	16.08	14,48	14,48		レ	14.48	
sww3	286.50	17.13	16.37	19.94	16.24	16,24	V			· · · · · · · · · · · · · · · · · · ·
sww4	283.60	14.60	12.55	15.70	13,58	13,58	V			
SWW5	277.02	13.19	12.48	14.04	13,24	13,24	V			
SWW6	273.06	8.52	7.90	8.90	8.14	8.14	\checkmark			· · · · · · · · · · · · · · · · ·
SWW7	277.93	8.07	7.63	8.30	7,54	7.54	\checkmark			
SWW8	278.24	4.03	3.80	4.30	3.78	3,78		~	3,78	
sww9	285.55	17.33	16.40	18.72	17.54	17.54	V			
SWW10	280.43	11.17	9.20	12.53	9,90	9.90				
sww11	273.50	9.26	8.40	10.16	9.72	9:72	\checkmark			
SWW12	272.82	8.75	8.35	9.20	8,30	8.30		V	8,30	· · · · · · · · · · · · · · · · · · ·
LCW-1	272.21	8.88	7.70	9.90	9,40	9,40	V			
LCW-2	274.44	11.12	9.95	12.14	11.65	11.65	V			
LCW-3	284.36	17,80	17.18	18.34	17,76	17.76	V			
LCW-4	285.70	18.37	17.35	19.42	17.96	17.96	V			· · · · · · · · · · · · · · · · · · ·
OS-1	272.10	9.53	8.30	10.94	8,48	8,48	\checkmark	ļ		
0l-1	272,00	11.23	10.90	11.80	11.04	11.04	V_			
OS-3	277.89	14.06	12.48	15.38	12,60	12.60	V			· · · · · · · · · · · · · · · · · · ·
OD-3	277.85	13.90	12.36	15.16	13,42	13,42	V			
LD-3	278.62	4.32	4.18	4.62	4,16	4.16			4,110_	
LD-4	.279.25	10.55	9.82	11.90	10.20	10,20	V	ļ		
LD-5	272.94	8.96	8.63	9.48	8,58	8,58			8,58	
LS-6	274.14	9.89	8.75	11.28	9.36	9.36	V		<u> </u>	
LD-6	274.03	10.12	9.58	10.82	9,80	4.80	V		•	
L.D-8	272.83	7.74	6.56	9.52	6.82	6,82				
LR-2	289.85	12.88	12.44	13.30	12.34	12.34	<u> </u>		12.34	
LR-3	278.06	7.89	7.38	8,12	7,52	7,52	V		ļ <u>.</u>	
LR-6	274.39	10.35	9,88	10.98	10,10	10,10		 		· · · · · · · · · · · · · · · · · · ·
LR-8	273.42	9.81	9.30	10.20	9.40	9.40			<u> </u>	
_M-21	272.32	9,59	9.06	10.44	400	9,08			<u> </u>	
M-22	273.88	10.20	9.62	10.94	10.08	10.08		ļ	<u> </u>	
M-23	270,49	12.34	12.05	12.65	12.10	19 10		<u> </u>	l	

ATTACHMENT C-2

SITE INSPECTION CHECKLIST AND LEACHATE DISPOSAL CHECKLIST

Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 1-11-17

Time 7:45

Field Technician MARTIN Koennecky Weather Conditions P-Summy 35°

	Che	ck v	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	V		SNOW COVERED
Land cap irregularities (note			
anomaly)	\checkmark		OK
French drainage system clear and			
function able	V		SNOW COVERED
Concrete trough clear and			
function able	V		SNOW COVERED
Leachate Discharge System			
City of Oswego sanitary discharge			
valve positioned "Open"	V		Yes
Discharge Pump inspected &			
operational	V		Yes
Discharge pump oil level verified			
prior to use.	\vee		Yes
Discharge pump drained of			
residual water (drained upon			
completion of monthly discharge)	1		Yes
Heat trace system operational &			
verified in the "ON" position			
(Applicable Oct - May)	V		ON
Flow totalizer operational. Flow			
readings recorded onto	1		
"Leachate Discharge Form"	V		yes
Leachate Collection System			
Leachate holding tank visually			
inspected for structural integrity	V		I ØK

٠	1-	П	-17
Leachate holding tank metal roof			
inspected for structural integrity	V		ok
Leachate tank access doors			
locked (post pump out)	V	.	Yes
Pump power panel(s) secured	V		Yes
Monitoring Wells (MW)			
Locks installed	V		Yes
MW's marked & identifiable	V		Yes
General Site Condition			
Trees & brush cleared off security			
fence	V		WORK IN PROGRESS
Perimeter security fence intact &			,
free of damage	V		OK
Site access driveway inspected &			
free on snow & damage	V		PLOUED
Security access gates / Padlock &			<u></u>
chain serviceable	V		Yes
Site gate signage intact	V		Yes
Interior & exterior of utility			
storage shed inspected for			54
damage & secure with locks	V		Yes
Fire extinguisher serviceable,		ł	
inspected, and inspection	1.		Noc
recorded	V		165
Spill control material inspected &			
adequate			ŮK
PPE available and utilized as			Nor.
required		ļ	10>
Emergency contact information		ł	Voc
posted within shed			162

Plaurto DRIVL	DEE PUMAED 7	To City of
OSWEGO SANITAN	1 10,000 gils Lechia	te
		<u></u>



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date <u> 2 - 15 - 14</u>

Time<u>730</u>

Field Technician ______KARTIN KORAMECKIE Weather Conditions SNOW/RAAVMIX 35"

Inspection Features			Remarks (Indicate accomplishment of each maintenance task)
mspection reactives	Monthly	Quarterly	
Land Cap			
Signs of burrowing vermin	V	-	NONE VISABLE
Land cap irregularities (note			
anomaly)	V		OK
French drainage system clear and			
function able	V		SNOW COVERED
Concrete trough clear and			_
function able	V		SNOW COVERED
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"	V		Yes
Discharge Pump inspected & operational	V		Yes
Discharge pump oil level verified prior to use.	V		Yes
Discharge pump drained of residual water (drained upon completion of monthly discharge)			Yes
Heat trace system operational & verified in the "ON" position (Applicable Oct - May)	V		ON
Flow totalizer operational. Flow readings recorded onto "Leashate Discharge Form"	V		$\forall \varphi \varsigma$
Leachate Collection System	<u>"</u>		
Leachate holding tank visually	-		
increased for structural integrity	$ \nu$		DK
Leachate holding tank metal roof		-	
inspected for structural integrity	v	1	IOK

2-15-14

Leachate tank access doors locked (post pump out) Pump power panel(s) secured Monitoring Wells (MW) Locks installed V Yes MW's marked & identifiable V General Site Condition Trees & brush cleared off security fence V Perimeter security fence intact & free of damage V Site access driveway inspected & free on snow & damage V Security access gates / Padlock & chain serviceable V Site gate signage intact Interior & exterior of utility storage shed inspection recorded Spill control material inspected & J Spill control material inspected & Adequate V PE available and utilized as V Yes Site secure with locks V Yes Site access driveway inspected & J Site access driveway inspected for damage & secure with locks V V V Security access access Site access driveway inspected for damage & secure with locks V Security access access Site access drive access Site access drive access Site access driveway inspected for damage & secure with locks V Security access Spill control material inspected & adequate V Security access Secure access Spill control material inspected & Colk PPE available and utilized as V Yes Secure access Secure	1		
locked (post pump out) V $Vest$ Pump power panel(s) secured V $Vest$ Monitoring Wells (MW)Locks installed V Locks installed V $Vest$ MW's marked & identifiable V okt General Site Condition Okt Trees & brush cleared off security fence V okt Perimeter security fence intact & free of damage V Okt Site access driveway inspected & recomed at an serviceable V Okt Security access gates / Padlock & chain serviceable V $Yest$ Site age signage intact V $Yest$ Interior & exterior of utility storage shed inspected for damage & secure with locks V Fire extinguisher serviceable, inspected, and inspection recorded V Yest Okt Spill control material inspected & adequate V PPE available and utilized as required V Press $Vest$ Surger of the formation posted within shed V Yest $Vest$	Leachate tank access doors		
Pump power panel(s) secured V Yes Monitoring Wells (MW)VesLocks installed V Yes MW's marked & identifiable V OK General Site Condition OK Trees & brush cleared off security fence V OK Perimeter security fence intact & free of damage V OK Site access driveway inspected & free on snow & damage V OK Security access gates / Padlock & chain serviceable V Yes Site gate signage intact V Yes Interior & exterior of utility storage shed inspected for damage & secure with locks V Fire extinguisher serviceable, inspected, and inspection recorded V Spill control material inspected & adequate V PPE available and utilized as V Ves Ves required V Emergency contact information posted within shed V Ves	locked (post pump out)	V	Yes
Monitoring Wells (MW)YesLocks installed \vee YesMW's marked & identifiable \vee \circ KGeneral Site Condition \circ \circ KTrees & brush cleared off security fence \vee \circ KPerimeter security fence intact & free of damage \vee \circ KSite access driveway inspected & free on snow & damage \vee \circ KSecurity access gates / Padlock & chain serviceable \vee Yes Site gate signage intact \vee Yes Interior & exterior of utility storage shed inspected for damage & secure with locks \vee Fire extinguisher serviceable, inspected, and inspection recorded \vee Spill control material inspected & adequate \vee PPE available and utilized as required \vee Ve S \vee required \vee Emergency contact information posted within shed \vee Ve S \vee Interior in the function informationV \vee Spill control material information posted within shedV \vee Ve SImage S within shedVe SImage S within shedVersState Stress StressSpill control material information posted within shedVersState Stress StressState StressState Stress	Pump power panel(s) secured	V	Yes
Locks installed \vee \bigvee esMW's marked & identifiable \vee \circ KGeneral Site Condition \vee \circ KTrees & brush cleared off security fence \vee \circ KPerimeter security fence intact & free of damage \vee \circ KSite access driveway inspected & free on snow & damage \vee \circ KSecurity access gates / Padlock & chain serviceable \vee \vee EsSite age signage intact \vee \vee YesInterior & exterior of utility storage shed inspected for damage & secure with locks \vee Fire extinguisher serviceable, inspected, and inspection recorded \vee Spill control material inspected & adequate \vee PPE available and utilized as \vee Yes \vee required \vee Emergency contact information posted within shed \vee Ves \vee State with inspection required \vee State with inspection required \vee Yes \vee State with inspected & required \vee Ves \vee State with inspection required \vee Yes \vee State with inspected & required \vee State with inspected & required \vee State with inspection required \vee State within shed \vee State within shed \vee State within shed \vee State within shed \vee State within shed \vee State within shed \vee <td< td=""><td>Monitoring Wells (MW)</td><td></td><td></td></td<>	Monitoring Wells (MW)		
MW's marked & identifiable V ok General Site Condition V ok Trees & brush cleared off security V ok fence V ok Perimeter security fence intact & V ok free of damage V ok Site access driveway inspected & OK PLowED Security access gates / Padlock & V Yes Site agrage intact V Yes Interior & exterior of utility Storage shed inspected for OK Gamage & secure with locks V OK Fire extinguisher serviceable, inspected, and inspection V Yes Spill control material inspected & V Yes Spill control material inspected & V Yes PPE available and utilized as V Yes required V Yes Emergency contact information V Yes	Locks installed	V	Yes
General Site Condition V OK Trees & brush cleared off security V OK Perimeter security fence intact & V OK Site access driveway inspected & V OK Site access driveway inspected & V OK Site access driveway inspected & V OK Security access gates / Padlock & V Yes Security access gates / Padlock & V Yes Site gate signage intact V Yes Interior & exterior of utility storage shed inspected for OK damage & secure with locks V OK Fire extinguisher serviceable, Inspected, and inspection Yes spill control material inspected & OK OK Spill control material inspected & V OK PPE available and utilized as V Yes required V Yes Emergency contact information V Yes posted within shed V Yes	MW's marked & identifiable	V	oK
Trees & brush cleared off security fenceV OK Perimeter security fence intact & free of damageV OK Site access driveway inspected & free on snow & damageV PL_{oVCD} Security access gates / Padlock & chain serviceableV Yes Site gate signage intactV Yes Interior & exterior of utility storage shed inspected for damage & secure with locksV Ves Fire extinguisher serviceable, inspected, and inspection recordedV Yes Spill control material inspected & adequateV Ves PPE available and utilized as posted within shedV Yes	General Site Condition		
fenceV OK Perimeter security fence intact & free of damageV OK Site access driveway inspected & free on snow & damageV $PL_{oV \in D}$ Security access gates / Padlock & chain serviceableV $Ye \leq$ Site gate signage intactV $Ye \leq$ Interior & exterior of utility storage shed inspected for damage & secure with locksV $Ve \leq$ Fire extinguisher serviceable, inspected, and inspection recordedV $Ye \leq$ Spill control material inspected & adequateV $Ve \leq$ PPE available and utilized asV $Ye \leq$ Intergency contact information posted within shedV $Ye \leq$	Trees & brush cleared off security		
Perimeter security fence intact & Image	fence	V	OK
free of damage \vee OK Site access driveway inspected & free on snow & damage \vee PL_{oweD} Security access gates / Padlock & chain serviceable \vee $Ye \leq$ Site gate signage intact \vee $Ye \leq$ Interior & exterior of utility storage shed inspected for damage & secure with locks \vee $Ve \leq$ Fire extinguisher serviceable, inspected, and inspection recorded \vee OK Spill control material inspected & adequate \vee OIK PPE available and utilized as required \vee $Ye \leq$ Emergency contact information posted within shed \vee $Ye \leq$	Perimeter security fence intact &		
Site access driveway inspected & Image	free of damage	V	OK
free on snow & damage V PLowED Security access gates / Padlock & V Yes Shit gate signage intact V Yes Site gate signage intact V Yes Interior & exterior of utility V Yes storage shed inspected for V V damage & secure with locks V OK Fire extinguisher serviceable, V Ves inspected, and inspection Yes Ves Spill control material inspected & V OK PPE available and utilized as V Yes required V Yes Emergency contact information V Yes posted within shed V Yes	Site access driveway inspected &		
Security access gates / Padlock & V Yes Site gate signage intact V Yes Interior & exterior of utility V Yes Interior & exterior of utility V Yes storage shed inspected for V OK fire extinguisher serviceable, V OK inspected, and inspection V Yes Spill control material inspected & V OK PPE available and utilized as V Yes required V Yes Emergency contact information V Yes posted within shed V Yes	free on snow & damage	V	PLOVED
chain serviceable V Yes Site gate signage intact \checkmark Yes Interior & exterior of utility \checkmark Yes Interior & exterior of utility \checkmark $\forall es$ storage shed inspected for \lor OK damage & secure with locks \lor OK Fire extinguisher serviceable, \lor Ves inspected, and inspection \checkmark $\forall es$ recorded \checkmark $\forall es$ Spill control material inspected & \checkmark OK PPE available and utilized as \checkmark $\forall es$ required \checkmark $\forall es$ Emergency contact information posted within shed \checkmark \checkmark $\forall es$	Security access gates / Padlock &		
Site gate signage intact V Yes Interior & exterior of utility storage shed inspected for OK damage & secure with locks V OK Fire extinguisher serviceable, inspected, and inspection V recorded V Yes Spill control material inspected & adequate V OK PPE available and utilized as V Yes required V Yes Emergency contact information posted within shed V Yes	chain serviceable	V	Yes .
Interior & exterior of utility storage shed inspected for damage & secure with locks V Fire extinguisher serviceable, inspected, and inspection recorded Y Spill control material inspected & adequate V PPE available and utilized as V required Emergency contact information posted within shed V	Site gate signage intact	V	Yes
storage shed inspected for V OK damage & secure with locks V OK Fire extinguisher serviceable, inspected, and inspection V inspected, and inspection V Ves Spill control material inspected & adequate V OK PPE available and utilized as V Ves required V Ves	Interior & exterior of utility		
damage & secure with locks V OK Fire extinguisher serviceable, inspected, and inspection recorded Y Yes Spill control material inspected & adequate V OK PPE available and utilized as required V Yes Emergency contact information posted within shed V Yes	storage shed inspected for		
Fire extinguisher serviceable, inspected, and inspection inspected, and inspection V recorded V Spill control material inspected & V adequate V PPE available and utilized as V required V Emergency contact information V posted within shed V	damage & secure with locks	V	OK
Inspected, and inspection V Yes recorded V Yes Spill control material inspected & adequate V OK PPE available and utilized as V Yes required V Yes Emergency contact information posted within shed V Yes	Fire extinguisher serviceable,		
recorded V Yes Spill control material inspected & adequate V OK PPE available and utilized as V Yes required V Yes Emergency contact information posted within shed V Yes	inspected, and inspection		
Spill control material inspected & adequate V O/K adequate V O/K PPE available and utilized as V Yes required V Yes Emergency contact information V Yes posted within shed V Yes	recorded	V	Yes
adequate V O/K PPE available and utilized as V Yes required V Yes Emergency contact information V Yes posted within shed V Yes	Spill control material inspected &		
PPE available and utilized as V Yes required	adequate	V	OK
required Emergency contact information posted within shed	PPE available and utilized as	V	Yes
Emergency contact information ν Yes	required		
posted within shed V Yes	Emergency contact information		
	posted within shed	V	Yes
Additional remarks (use separate sheet is required).	Additional remarks (use senarate s	heet	is required).
- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	Leaborty To TANK AN	5 D	ischarged To City of Oswago
LEADATE TO TANK AND DISCHARGED TO CITY of OSWEGO	Waster Water DLANT		



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date <u>3-7-17</u>

Field Technician MARTIN KORNNecks

Weather Conditions RAIN S Hours 40°

	Che	CK V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap	\checkmark		
Signs of burrowing vermin	\checkmark		NONE VISHALA
Land cap irregularities (note anomaly)	V		OK
French drainage system clear and function able	V		Yes
Concrete trough clear and function able	V		Yes
Leachate Discharge System			
City of Oswego sanitary discharge valve positioned "Open"	v		Yes
Discharge Pump inspected & operational	1		yes
Discharge pump oil level verified prior to use.	\checkmark		YES OIL ADDED
Discharge pump drained of residual water (drained upon completion of monthly discharge)	V		Yes
Heat trace system operational & verified in the "ON" position (Applicable Oct - May)			ON
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"	\checkmark		Yes
Leachate Collection System			
Leachate holding tank visually inspected for structural integrity	V		OK
Leachate holding tank metal roof inspected for structural integrity	V		OK

Leachate tank access doors		
locked (post pump out)	V	Yes
Pump power panel(s) secured	1/	Yes
Monitoring Wells (MW)		
Locks installed	V	Yes
MW's marked & identifiable	V	OK
General Site Condition		· · · · · · · · · · · · · · · · · · ·
Trees & brush cleared off security		
fence	V	WORKIN PROGRESS
Perimeter security fence intact &		
free of damage	V	OK
Site access driveway inspected &		
free on snow & damage	V	OK
Security access gates / Padlock &		
chain serviceable	V	Yes
Site gate signage intact	\checkmark	Yes
Interior & exterior of utility		
storage shed inspected for		
damage & secure with locks	V	<u> </u>
Fire extinguisher serviceable,		
inspected, and inspection		N.C.
recorded		1es
Spill control material inspected &		17
adequate		Yes
PPE available and utilized as		
required	$\left[V\right]$	Yes
Emergency contact information		Vez
posted within shed	V	1705

PUMPED 10,000 you Leadthate To HolDing TANK Then PUMPED TO CITY of OSWERD POTW, SEMI ANNUAL LEACHATE SAMPLES TAKEN BY City of aswerp Potw

		(PA Dswego,	S Site , New	York				
		Lea	<u>chate D</u>	ischar	<u>ge Form</u>				
Date: /-/	1-17			>	Tim	e:	7:45		
Field Technic	ian	Tw Koen	were Ki		Wea	ther C	Condition	s <u>P-surm</u> y	1350
			Pre-Dis	charg	e Well P	umpi	ng		
Well Pump						項目の 項目的 連載型 査			
	- Rump Sta Eime	d Pun	p Stop == inte	Ek	Fank evation	Floy	v Rate (es	t) Ga Pump	llons ed (est)
LCW-1	8:00	9:2	20		13"	5 a ⁻¹ - p , 5 46 5		10,2	18
LCW-2	8:00	9:	3.C				33.5 = 10218-8		79 KPA
LCW-3	8:00	8:1	D		<u>.</u>				
LCW-4	8:00	9:	20	ST	net-95"	ĒM	>~ 10"		
			6				То		
	<u>57 AR(</u>	<u> </u>	<u>4.0</u>	り DEFE	<u>PRM</u>	ED	9:25 (1)		
		Leach	ate Dis	charge	e Pumpi	ng(M	onthly)		
Discharge #	Start	Stop	pEt	Temp	Totaliz	er	Totalize	r Gallo)ns
	Time	Time			Elow Eo	o tal O	Flow Total	Disch	arge
							(End)		
Discharge #1	9:25	11:25	6,8	420	110a	.15	7802	3510,0	0
Discharge #2					· /		- <u>\</u>		48845-77
Total	nterioranen ha haitebereren eta eta er		· · · · · · · · · · · · · · · · · · ·	lauren affici arrak	83.4	5694	1)	/0,01	<u>Ø</u>
	Andread (* 1997) New Groef Stational (* 1997) George (* 1997)	Leachate	Discha	ige Sa	mpling (Sem	-Annu	ag)	
	Date	Sample	Sam Val	ple	Sample Time		pĦ	Tempera	ture
Sample #1	<u>energy (destantes direction 4.55) E</u>	- 1400 ALION						er og en en en en en en en en en en en en en	CALLS AND AS
Sample #2			+						

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 $\label{eq:charge} C \mbox{\sc vin}$

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	O'BRIEN	6 GERE							
		(PA Oswego	AS Site , New	York				
		Lea	achate I	Dischar	ge Form				
Date: <u>À-</u>	15-17				Tim	e:	730	<u> </u>	
Field Technic	cian <u>1914 (7</u> 7	in Koenn	wee ke		Wea	ther	Conditions	SMOW RAIN W	<u>u</u> x38
					ananan al Alikatari (Kuri			ana atan atan atan Angelera (1997) Angelera (1997)	
			Pre-Di	scharg	e Well P	ump	ing		
Well Pump			A SANDAR M Zasana Sanara						
	-Pump Stan	t Bun	pStop.	1	ank	Flo	w Rate (est)	Gallons Bumned (as	
LCW-1	850		//)	STAU-	- 10 5 M	STOP 435		10065	<u>Conta</u>
LCW-2	<u> </u>	10:	/0	<u></u>	1019			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LCW-3	850	9:0	0						
LCW-4	850	10,	10	33	x 305=1	006	5 - 80 m 10 = 1	125 6.PM	
-		- 5					Tota	10,065	
	<u>574</u>	Leach	iate Dis	o / charge	Pumpir	<u>- 11</u> 13A	<u>2:3()</u> tonthly)		
Discharge #	Start Time	Stop Time	B A	Temp	Totaliz Flow To (Start	er ital)	Totalizer Flow Total	Gallons Discharge	
Discharge #1		10120		11110	<u>たちょう</u>	<u>، د</u>	(End)		
Discharge #2	10:30	12:30	6.8	74	10040		790220	10,005	
Total				_ _	<i>\$3.</i> 3 (ofin		ID NAG	
		Leachate	Discha	rge Sa	npling (Sem	i-Annual	D D	
Sample #1	Date	Sample Location	San Voli	iple . ime	Sample Time		PH	<u>l'emperature</u>	
Sample #2	· · ·								

C·\A (Kevin)\All Projects\PAS Oswego\Forms\Checklist\PAS Leachate Disposal Checklist_V1_2010.doox
		U U ko i B ka					
		C	PA Swego	AS Site , New `	York	:	
		Lea	<u>chate D</u>	Dischar	ge Form		
Date: <u>3-</u>	7-17				Time:	00:8	
Field Technic	ian <u>MAR</u> T	IN KOE	NNect	1 K-l	Weather	Conditions <u>/</u>	RAINSHOUDS 40
			Pre-Di	scnurg	е <u>жен</u> тиш Так		
Avena ump							
	Pump Star Time	Cia Bun	n Stop. me	Ele	ank vation	ow Rate (est)	Pumped (est)
LCW-1	8:00	9:2	0	4	3,5	125,869	10,065
LCW-2	8:00	9:2	0	_			
LCW-3	8:00	8:10	>			<u></u> .	
LCW-4	8:00	9:0	d C		, , , , , , , , , , , , , , , , , , , ,		
<u> </u>	START	10,5"	END	43.5"	/33'x305=	10,065 Total	
	Nomenisses (1996) of the overlation	START	PUMp (<u>9:30</u>	PRIMEDAT	- <u>9:55</u>	
		Leach	ate Dis	charge	Pumping(Monthly)	
Discharge #	Start Time	Stop Time	pH	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total	Gallons Discharge
		۵ اند اند				(End)	
Discharge #1	9:55	11:55	6.8	42"	790230	800235	10,005
Discharge #2					(N 2 ' - 4	·D m	
1 Otal					<u> 85.5 (</u>		<u>10,005 - </u>
		Leachate	Discha	rge Sa	mpling (Sen	ni-Annuall	
	Date	Sample /	San Voli	iple	Sample Time	рН	Cemperature
Sample #1	3-7-17	SAMPLE PORT	L LO	mp	1040	6.8	420

C \A (Kevin)\All Projects\PAS Oswego\Forms\Checklist\PAS Leachate Disposal Checklist_V1_2010.docx

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ATTACHMENT C-3

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QUARTERLY POTW DISCHARGE REPORTS 1ST QUARTER 2017

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

March 20, 2017

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

Re: 1st Quarter PAS Oswego Discharge Report 2017

Dear Mr. O'Brien,

This quarterly report is submitted in accordance with the City of Auburn Wastewater Discharge Permit 2017-01 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Auburn Wastewater Treatment Facility. This report covers the reporting period from December 2016 through February 2017.

Leachate was transported to the Auburn Public Operated Treatment Plant (POTW) on December 7, 2016. Disposal of PAS ground water was discontinued in February 2017 although the permit was renewed in 2017 to allow for transport of leachate if necessary. Therefore, a total of 10,000 gallons of leachate were transported to the City of Auburn during the quarter. The total number of gallons of leachate discharged during each month of the quarter is summarized in Table 1. The Leachate Discharge Form documenting the leachate pumping process and completed bills of lading providing the quantities shipped during each discharge event are included in Attachment I. The discharge quantities, as well as date of each discharge event are provided on the bills of lading. Measurements for pH and temperature during the removal event are also recorded on the discharge forms. The PAS discharge was sampled for the pretreatment criteria by OBG on December 7, 2016. These results are provided on Table 1 with copies of the lab reports K1612084 and certification provided in Attachment II.

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

Sincerely, de maximis, inc.

Clay MCClarnon Project Coordinator

r loject obordi

Attachment

CMC/dsr

cc: PAS Management Committee

f:\projects\3131 - pas\permits-potw 10\2017\auburn\1st qtr\auburn 1st qtr 2017 rpt.doc

PAPER

TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR City of Auburn (2017) LEACHATE DISCHARGE TO City of Auburn WASTEWATER TREATMENT FACILITY (Auburn Wastwater Discharge Permit No.2014-01)

	г	<u>,</u>										
Discharge Quarter	 '	2Q 2	.016	3Q 2	016	4Q 2	.016	1Q 2	:017			
		Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged			
	_ '	3/9/16	10,000	6/15/16	20,000	9/14/16	20,000	12/9/15	10,000			
		46/8.0	L	54/6.8	L	54/7.9	· · · · · · · · · · · · · · · · · · ·	48/6.8				
		4/6/16	10,000	7/13/16	20,000	10/5/16	20,000		[
		46/7.6	<u> </u>	53/6.8		54/7.8						
		5/4/16	20,000	8/3/16	20,130	11/9/16	10,000	· /				
· · · · · · · · · · · · · · · · · · ·	<u> </u>	48/7.8	Į	54/6.8			ļ	/				
Total Discharged			40,000		60,130		50,000		10,000			
Date Sampled*	Limit*		3/9/2016		6/15/2016		9/14/2016		12/30/2016			
Analytes Antinomy	mg/L		mg/L		rng/L		mg/L		mg/L			
Arsenic Barium Cadmium	2 5		0.015 0.19		0.011 0.22		0.017 0.019		ND <0.01 0.026 ND <0.01 ND <0.01			
Chromium (total) Copper Iron Lead	2 1.5 10 2		ND <0.01 0.037 2.2 ND <0.01		0.015 0.012 2.9 ND <0.01		ND <0.010 ND <0.010 0.99 ND <0.010		0.01 ND <0.01 0.019 0.52			
Mercury Nickel Phosporus Selenium	5 10		0.39 ND <0.2		0.36 ND <0.2		0.37 ND<0.20		0.0002 0.44 ND <0.2 0.014			
Silver Zinc Cyanide	5 1 mg/1		0.035 ND < 0.01		ND<0.020 ND < 0.01		ND<0.020 0.01		ND .0.01 0.08 ND / ND < 0.01			
MeCl TCE	3 3		ND <0.004 0.00274	1	ND <0.004 0.00638		0.0005		ND / ND <0.001 ND <0.001			
1,2 DCE Phenolics Toluene	3 10 5		0.0652 0.13 0.00854		0.0652 0.16 0.00294		0.149 0.52 0.0408		NA 5 0.017/0.023			
TKN TSS	40 350		39 8		39 5		20 <5		32 6.6			
BOD 5	300		17	1	11	1	12		5 7			

* Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.2014-01.

** Sampled by City of Auburn

ATTACHMENT I

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PAS Site Oswego, New York

Leachate Disposal Checklist

Project Personnel:

MAKTIN KOENNecke

Time on-site: 9.10

Transportation Subcontractor: <u>SUN ENVRUMENTALINC</u> Leachate Destination: <u>CITY of AUGURN POTW</u>

Date: $1\beta - 6 - 16$

NW 7 - VI	Leachate Collection Well Pumping		Well Pumpin Ana	ng Flow Rate lyses	Flow Rate	Remarks	
vy en	Start Time	Stop Time	Time	Tank Elev. (Down)	Calculation		
LCW-1	9:15	1045	90 MIN	-10,065 =	1/2 6PM	10,065	
LCW-2	9:15	1045		/			
LCW-3	9:15	9:25					
LCW-4	9:15	10:45					
Leachate Hold	ling Tank: ST	ALT - 10"	STOP - 43	11			
Initial Flow Meter Reading: PH-6.7 ; FE +20"4 ; Temp 54°							
Final Flow Me	eter Reading:	ADDETS	50 lb2	CAUSTIC F	E Z, Yall	PH-8-35	
			-		Temp ==	540	

Load	(Pro	e-Loading) Tanker	(P	ost-Loading) Tanker	Destination	Remærks	
	Time	Confirmed Clean	Time	Tanker Volume (by Strick Mass)	Manifest		
Load #1	720	765	750	60"	120716-1	3,000	
Load #2	7:55	Yes	9:00	45.5"	120716-2	7,000	
Load #3							
Load #4						· · · · · · · · · · · · · · · · · · ·	

COMPOSITE SAMPLES TAKEN FOR AUBURN-POTU PERMIT RENEWAL



SUBJECT:		PAGE:	BY: DATE:	JOB NUMBER:	
his Memorandi ge of	is an acknowledgment that a Bill of Lading has bee Bill of Lading, nor a copy or duplicate, covering the p intended solely for filing or record.	on issued and isn roperty named her <u>संस्कृति विकास</u> of carrier)	ot Original refn, and is (SCAC)	Shipper No. <u>7</u> Carrier No. <u>7</u> A Date <u>7</u> 2	<u>0116-1</u> 700 -07.14
collect on Delivery shipments, the latter I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I: I:	s "COD" must appear before consignee's name or as otherwise provided in Nem 430, Sec.1.	FROM: Shipper Street City	DeMaximis, Inc 703 East Senenc wega	9 Street State NY Zip	Code
A THE REAL	State NTC Zip Code 13671	24 hr. Emergeno	cy Contact Tel. No. <u>315.21</u>	Vehicle #	= 128 ME
te No, of Units Container Type	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Clas	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	Number Number WEIGHT (Subject to Correction) RA	CHARGES (For Cartler Use Only)
<u>-71</u>	<u>Non-RCRA, Non-DOT Regulated Li</u> (Lenchate Water)	quids		V CST	
	TOTOH (NE) & (* 0057				
	60"				
PLACARDS TER (1) Where the rate is dependent to rate the rate is dependent or declared value of the property is there the applicable teriff provident as ages or a value declaration by the unterfer lability or declare a value, the issue of a value declaration by the unterfer lability or declare a value, the dop auch providents. See NMFC lite ammodities requiring special or addw be a charter and pakegad as to e 100, tills of Lading, Freight Bills an	NDERED: YES NO Control to state and value of the property, as follows: The a beneby specificativ stated by the shipper to solve and the shipper to be shipper to the shipper to be shipper and the shipper to be not relaxed to carder's liability shall be limited to the extent m172. Ional care or attention in handling or stowing to ender of Charges and Section 1(e) of the shipper to the Section 2(e) or to state or other and Section 1(e) of	REMIT C.O.D. TO: ADDRESS COD Subject to Section 7 Consigned without re- following without re- following and all other law	Arnt: \$ fol the conditions, if this shipment is to be course on this consignor, the consignor not make detiliony of this shipment witho with charges.	esiliered to the shall algo the ul payment of FREIGHT CARGES upper when box at det is obtained	3 3 HARGES Grack lock licharges Grack lock licharges are to be collext
RECEIVED, subject to the property describer tents of packages uni- (the word cerrier bein possession of the pro- nalice, if on its route, alty agreed as to each	the classifications and tarifits in effect on the date of the issue of this Bill of Lading, d above in apparent good order, except as noised (contents and condition of con- mown), marked, consigned, and destined as indicated above which suid cartier g understood throughout this contract as meaning any person or corporation in serty under the contract) agrees to carry to its usual place of delivery at said desti- otherwise to deliver to anohar cartier on the route to said destination. It is mutu- otherwise to delive to anohar cartier on the route to said destination. It is mutu- carter of all or any of, said property over all or any portion of said route to des-	tination and es be performed he sification on the Shipper in governing dass accepted for hi	to each party at any time interested in all arounder shall be subject to all the bill of lads e date of shipment. reprety certifies that he is familiar with t sification and the said terms and condition meelf and his assigne.	l or any said properly, that every serv 19 terms and conditions in the governing 11 the lading terms and conditions 18 are hereby ägresd to by the shipp	ricce to) clas: ico the bor and
IPPER DelMaximis R ///	Murche	CARRIER PER DATE	Sim Earvielanties	heren Jamen 1-16	4
armanent post-office address	of shipper.	STYLE F370	-4 ©2012 LABELMASTER® (500) 621-5808 www.labelma	ster.com

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SUBJECT:		PAGE	BY:	DATE:	JOB NU/	VRFK=	
is an acknowledgment Bill of Lading, nor a cop intended solely for fillr	that a Bill of Lading has been by or duplicate, covering the pro- g or record.	issued and is a perty named he	not Original rein, and Is		Shipper No. Carrier No.	1207/	6-2
le of	Name of	<u> 39회 (유유구함,</u> carrier)	(8	SCAC)	Date	<u>1)- 7</u>	16
sleet on Delivery shipments, its letters "COD" must appear before consigned's name of the second state of	or as otherwise provided in liem 430, Sec.1.	FROM: Shipper	Delviaxin	lis, Inc Cananan V	breat		
of the second restaurant stand		Street	193 2.281	GERENCO (P			d9
Anglangun State (4)7	Zip Code 13851	24 hr. Emergen	w Conlact Tel. No.	114_212_6	005	<u>ap 0-</u>	
te		24 III. Enorga	J Contast for the		Vehic Numb	erBAZ	4986
No. of Units Container Type HM UN or NA Number, Proper	BASIC DESCRIPTION Shipping Name, Hazard Class, I	Packing Group	TOTAL C (Weight Gallor	UANTITY Volume, s, etc.)	WEIGHT (Subject to Correction)	RATE	(For Carriel Use Only)
-TT Non-RCRA, Non-I	DOT Regulated Liq	minis	217	200	G		
(L.C.C.C.S.P.C. V ALL J					- <u></u>		
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	45,5"						
		DEMIT		-	•		
PLACARDS TENDERED: YES NO (1) Where the rate is dependent on value, shippers are required to static ally in writing the agreed or declared value of the property, as follows: "The or declared value of the property is hereby specifically stated by the shipper to	I I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping	ADDRESS			C.O.D.	FEE:	
exceeding per a value declaration by the shipper and the shipper does not relaxed rate or a value declaration by the shipper and the shipper does not relaxed rate's liability or declare a value, the carrier's liability shall be limited to the extent ad youch provisions. See NMFC item 172. mmodilises requiring speeld or radditional care or attention in handing or stowing eso marked and packaged as to ensure safe transportetion. See Section 2(e) of 60, Bills of Lading, Freight Bills and Statements af Charges and Section 1(a) of intract Terms and Conditions for a lib of Such articles.	name and see classified, packagod, marked and ibelied/placarded, and zer in all respects in proper condition for transport according to applicable international and national governmenial regulations.	Subject to Section 7 consignate without ret following statament: The carrier shell of reight end all otherlas	Amt: \$ of the conditions, if this st course on the consigner, not make delivery of this viul charges. (Signature of Consigno	ipment is to be delivera the consignor shall si shipment willout payn	d to the ign the nent of FREFAL FR	ES S IGHT CHAR REPAD Che nboxa [*ed	GES sck box if changes are to be collect
RECEIVED, subject to the classifications and tentits in effect on the date the property described above in apparent good order, except as noted tents of perkepse unknown), marked, consigned, and destined as ind (the word carrier being understood throughout this contacts as meanin pessession of the property under the centract) agrees to carry to lis usu nation, if on the route, otherwise to deliver to another carrier on the rout ally agreed as to each cartier of all or carry of, said property over all or	of the issue of this Bill of Lading, (contents and condition of con- leated above which said certifer gravy person or corporation in a piece of delivery at said desit- e to said destination. It is mutu- my portion of said route to des-	tination andas be parlomeche sification onthe Shipper h governing cass accepted forbir	to each party at any lime reunder shall be subject to date of shipment. oraby catilles that he is ilication and the said tem neelf and his assigne.	interested in all or any as the bill of lading terms i familiar with all the l as and conditions are h	said property, that i and conditions in the ading terms and co ereby agreed to by	avery service to governing clas- onditions in the the shipper and	
PPER DaManimis Inc.			Sun Eavit	UXIAL CALLER			- 4
11/4 To Koin Mil			7-7-16		• •		
manent post-office address of shipper.		STYLE F370-	4 © 2012 LABEL	ASTER @ (800) 6	21-5808 www.l	abelmaster.C	011



Friday, December 30, 2016

Mark Byrne O'Brien & Gere Operations, LLC. 7600 Morgan Road Liverpool, NY 13090

TEL: 315-637-2234

Project: PAS OSWEGO, 4TH QUARTER LEACHATE SAMPLES RE: Analytical Results Order No.: K1612084

Dear Mark Byrne:

Life Science Laboratories, Inc. received 2 sample(s) on 12/7/2016 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.

David J Prichard Project Manager Life Science Laboratories, Inc. 5854 Butternut Drive Analytical Results

	East Syracuse, NY	13057	(315) 445-1	900	StateCertNo: 10248			
CLIENT: Project:	O'Brien & Gere Op PAS Oswego, 4th O	erations, LL Juarter Leac	C. hate Samples		Lab ID: Client Sample ID:	K1612084-0 Tank Effluent	01A Leachate,	
W Order:	K1612084	•	_		•	12/07/16		
Matrix:	WATER				Collection Date: Date Received:	.12/07/16 9:10 12/07/16 11:35	5 .	
Inst. ID: ColumnID:	GENESYS 20	Sample %Mois	e Size: NA sture:		PrepDate: BatchNo:	R30568		
Revision: Col Type:	12/19/16 11:18	TestCo	de CRHEX7	1 96 W	FileID:	0-SAMP-		
Analyte			ResultQual	PQL	Units	DF	Date Analyzed	
CHROMIUM	HEXAVALENT				SW7196A	·		
Chromium, He	exavalent		ND	0.010	mg/L	1	12/07/16 15:37	

Qualifiers:

T

Value may exceed the Acceptable 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

LSL	Life Scienc 5854 Butternut Driv East Syracuse, NY	e Laboratories, In e 13057 (315) 445-1900	C.	Analytic StateCertNo:	al Resules
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, 4th (K1612084	erations, LLC. Juarter Leachate Samples	Lab ID: Client Sample ID:	K1612084-0 Tank Effluen 12/07/16	01A t Leachate,
Matrix:	WATER 4		Collection Date: Date Received:	12/07/16 9:10 12/07/16 11:3	5
Inst. ID: ColumnID:	DO Meter	Sample Size: NA %Moisture:	PrepDate: BatchNo:	R30584	
Revision: Col Type:	12/19/16 11:20	TestÇode BODSM5210B	FileID:	0-SAMP-	·
Analyte		Result Qual PQL	Units	DF	Date Analyzæd
BIOCHEMIC	AL OXYGEN DEMA	ND (BOD5)	SM 5210B-01.	-11	
Biochemical or	kygen demand (BOD5)	7.0 4.0	mg/L	1	12/08/16 14:27

NOTES:

As per NELAC regulation disclosure of the following condition is required; The method blank results associated with this analysis are greater than the established limit.

Analyte detected in the associated Method Blank ٠ Value may exceed the Acceptable Level ₿ Qualifiers: Holding times for preparation or analysis exceeded Value exceeds the instrument calibration range Н Е Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL) J P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits

	Life Science 5854 Butternut Drive East Syracuse, NY 130	Laboratories, In 57 (315) 445-1900	IC.	Analytica StateCertNo: 10	al Results 1248
CLIENT: Project: W Order:	O'Brien & Gere Opera PAS Oswego, 4th Qua K1612084	tions, LLC. rter Leachate Samples	Lab ID: Client Sample ID:	K1612084-00 Tank Effluent 1 12/07/16	1A Leuchate,
Matrix:	WATER		Collection Date: Date Received:	12/07/16 9:10 12/07/16 11:35	
Inst. ID: ColumnID:	Fisher balance XA	Sample Size: NA %Moisture:	PrepDate: BatchNo:	R30560	
Revision: Col Type:	12/13/16 17:19	TestCode TSS2540D	FileID:	0-SAMP-	•
Analyte	· _ · · · · · · · · · · · · · · · · · ·	Result Qual PQL	Units	DF	Date Analyzed
RESIDUE-No	ON-FILTERABLE (TSS)	66 50	SM 2540 D-97	,- 1 1 1	12/08/16

 Qualifiers:
 *
 Value may exceed the Acceptable 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

Analytical Results

	East Syracuse, NY	13057 (315) 445-1	900		StateCer	tNo: 10248	
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, 4th (K1612084	perations, LLC. Quarter Leachate Samples		Lab ID: Client Sample ID:	K1612 Tank Ej 12/07/10	084-001B Muent Leuchate, 6	
Matrix:	WATER			Collection Date: Date Received:	12/07/10 12/07/10	5 9:10 5 11:35	
Inst. ID:	MS06 40	Sample Size: 1000 n	nL	PrepDate:	12/08/16 6:17		
ColumnID:	DB-5MS	%Moisture:	•	BatchNo:	23066/R	30552	
Revision: Col Type:	12/12/16 11:55	TestCode 625W		FileID:	I-SAMP	-	
Analyte		ResultQual	PQL	Units	DF	Date Analyzed	
SEMI-VOLA	TILE ORGANICS CO	ompounds by GC/MS		EPA 625		(SW3520C)	
Phenol		ND	5.0	μ g/L	1	12/08/16	
Surr: 2,4,6-	Tribromopheno!	89	25-121	%REC	1	12/08/16	
Surr: 2-Fluo	rophenol	33	6-60	%REC	1	12/08/16	
Surr: Pheno	bl-d5	23	0-54	%REC	1	12/08/16	

 Qualifiers:
 * Value may exceed the Acceptable 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

Analytical Results

	East Syracuse, NY 13	i057 (315) 445-1	StateCertNo: 10248			
CLIENT: Project:	O'Brien & Gere Oper PAS Oswego, 4th Qu	rations, LLC. arter Leachate Samples	Lab ID: Client Sample ID:	K1612084-001C Tank Effluent Leachate, 12/07/16		
Matrix:	WATER			Collection Date: Date Received:	12/07/16 9:1 12/07/16 11:	0 35
Inst. ID: ColumnID:	ICAP PE4300 DV	Sample Size: 50 ml %Moisture:		PrepDate: BatchNo:	12/14/16 0:0 23107/R3064	0 18
Revision: Col Type:	12/30/16 15:07	TestCode 200.7 N	PW	FileID:	0-SAMP-	
Analyte		ResultQua	PQL	Units	DF	Date Analyzed
TOTAL MET	ALS BY ICP			EPA 200.7	(E	PA 200.2)
Antimony	· · · · · · .	ND	0.010	mg/L	1	12/30/16
Arsenic		0.026	0.010	mg/L	1 .	12/30/16
Barium		ND	0.10	mg/L	1	12/30/16
Cadmium		ND	0.010	mg/L	1	12/30/16
Chromium		ND	0.010	mg/L	1	12/30/16
Copper		0.019	0.010	mg/L	1	12/30/16
Iron		0.52	0,050	mg/L	1	12/30/16
Lead		ND	0.010	mg/L	1	12/30/16
Nickel		0.44	0.010	mg/L	1	12/30/16
Selenium		0.014	0.010	mg/L	1	12/30/16
Silver		ND	0.010	mg/L	1	12/30/16
Zinc	· · · ·	0.080	0.020	mg/L	1	12/30/16

NOTES:

Arsenic. selenium, antimony and lead were analyzed by method EPA 200.8.

Qualifiers:

Value may exceed the Acceptable 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

Analytical Results

	East Syracuse, NY	13057 (315) 445-1	900		StateCer	tNo: 10248
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, 4th (K1612084	erations, LLC. Quarter Leachate Samples		Lab ID: Client Sample ID:	K1612 <i>Tank Ej</i> <i>12/07/10</i>	984-001C Fluent Leuchate, 5
Matrix:	WATER			Collection Date: Date Received:	12/07/16 12/07/16	5 9:10 5 11:35
Inst. ID: ColumnID:	FIMS 100	Sample Size: 40 mL %Moisture:		PrepDate: BatchNo:	12/13/16 23090/R	0:00 30571
Revision: Col Type:	12/14/16 20:29	TestCode HG245W		FileID:	1-SAMP	-
Analyte		ResultQual	PQL	Units	DF	Date Analyzed
MERCURY Mercury		ND	0.00020	EPA 245.1 mg/L	1	(EPA 245.1) 12/13/16 20:03

 Qualifiers:
 * Value may exceed the Acceptable 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

Analytical Results

	East Syracuse, NY	13057	(315) 445-1	900		StateCe	rtNo: 10	248
CLIENT: Project: W Order:	O ^f Brien & Gere Of PAS Oswego, 4th K1612084	perations, L Quarter Lea	LC. chate Samples		Lab ID: Client Sample ID:	K1612 Tank I 12/07/1	1084-001 Sffluent I 16	D Leachate,
Matrix:	WATER				Collection Date: Date Received:	12/07/1 12/07/1	l6 9:10 l6 11:35	
Inst. ID: ColumnID:	Traacs	Samp %Mo	Sample Size: 50 mL %Moisture:		PrepDate: BatchNo:	12/16/16 0:00 23145/R30590		
Revision: Col Type:	12/20/16 6:07	TestC	ode CN335.41	N	FileID:	0-SAM	P	
Analyte			ResultQual	PQL	Units	DF		Date Analyzeri
CYANIDE, T Cyanide, Tota	OTAL		ND	0.010	EPA 335.4 mg/L	1	(EPA	335.4) 12/19/16

Analyte detected in the associated Method Blank * Value may exceed the Acceptable Level В Qualifiers: E Value exceeds the instrument calibration range Н Holding times for preparation or analysis exceeded J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL) Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits P Print Date: 12/30/16 15:31 804103 Project Supervisor: David J Prichard

Page 7 of 12

Life Science Laboratories, Inc. 5854 Butternut Drive

Analytical Results

	East Syracuse, NY	13057	(315) 445	5-1900		StateCertN	vo: 10248
CLIENT: Project: W Order:	O'Brien & Gere O PAS Oswego, 4th K1612084	perations, L Quarter Lea	.LC. achate Sampl	es	Lab ID: Client Sample ID:	K161208 Tank Eff 12/07/16	84-091E Juent Leachate,
Matrix:	WATER				Collection Date: Date Received:	12/07/16 12/07/16	9:10 1 1:35
Inst. ID: ColumnID:	Traacs	Samı %Mo	ole Size: 1 m oisture:	L	PrepDate: BatchNo:	12/23/16 (23186/R3():00 0616
Revision: Col Type:	12/26/16 6:49	Test	Code TKN35	51.2	FileID:	i-SAMP-	
Analyte	····		Result Q u	al PQL	Units	DF	Date Analyzed
KJELDAHL	NITROGEN - TOTA	L (AS N)			EPA 351.2		(EPA 351.2)
Kjeldahl Nitrog	jen - Total (as N)		32	0.10	mg/L	1	12/23/16

NOTES:

As per NELAC regulation disclosure of the following condition is required; The method blank and laboratory control sample results were greater than the established limit.

 Qualifiers:
 *
 Value may exceed the Acceptable 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

Print Date: 12/30/16 15:31 805315 Project Supervisor: David J Prichard

LSL 5854 Butternut Drive

Analytical Results

	East Syracuse, NY 1	3057 (315) 445-1	1900	StateCertNo: 10248				
CLIENT: Project: W Order:	O'Brien & Gere Ope PAS Oswego, 4th Qu K1612084	rations, LLC. uarter Leachate Samples	 I	Lab ID: Client Sample ID:	K1612 Tauk Ej 12/07/10	084-001E fluent Leachate, 5		
Matrix:	WATER			Collection Date: Date Received:	12/07/16 12/07/16	5 9:10 5 11:35		
Inst. ID: ColumnID:	Traacs	Sample Size: 50 ml %Moisture:	L	PrepDate: BatchNo:	12/09/16 23081/R	0:00 30550		
Revision: Col Type:	12/12/16 8:29	TestCode TP365.1		FileID:	0-SAMP	-		
Analyte		ResultQua	PQL	Units	DF	Date Analyzes		
PHOSPHOR Phosphorus, 1	R US, TOTAL (AS P) Fotal (As P)	ND	0.20	EPA 365.1 mg/L	1	(EPA 365.1) 12/09/16		

Qualifiers:

*

Value may exceed the Acceptable Level

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

r - rinnacom, commin 26D of KPD exceeds fimi

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. LSL 5854 Butternut Drive

Analytical Results

12/12/16 12:41

	East Syracuse, NY	13057 (315) 445-1	StateCertNo: 10248				
CLIENT: Project: W Order:	O'Brien & Gere Op PAS Oswego, 4th (K1612084	perations, LLC. Quarter Leachate Samples		Lab ID: Client Sample ID:	K16120 Tank Efj 12/07/16	84-001F Auent Leachate,	
Matrix:	WATER			Collection Date: Date Received:	12/07/16 9:10 12/07/16 11:35		
Inst. ID:	MS04 73 Sample Size: 10 mL		,	PrepDate:			
ColumnID:	Rtx-VMS %Moisture:			BatchNo:	R30602		
Revision:	12/22/16 12:48 TestCode 624W			FileID:	1-SAMP-	R2183.D	
Col Type:							
Analyte		Result Quai	PQL	Units	DF	Date Analyzed	
VOLATILE C	DRGANIC COMPOU	NDS BY GC/MS		EPA 624			
1,1,1-Trichloro	ethane	ND	10.0	µg/L	10	12/12/16 12:41	
Methylene chic	oride	ND	10.0	µg/L	10	12/12/16 12:41	
Tetrachiorceth	ene	39.7	10.0	µg/L	10	12/12/16 12:41	
Toluene		18.2	10.0	µg/L	10	12/12/16 12:41	
Trichloroethene	•	11,6	10.0	µg/L	10	12/12/16 12:41	
Surr: 1,2-Dic	hloroethane-d4	102	75-130	%REC	10	12/12/16 12:41	
Surr: 4-Brom	ofluorobenzene	96	75-125	%REC	10	12/12/16 12:41	

75-125

%REC

10

99

Qualifiers:

*

Surr: Toluene-d8

Value may exceed the Acceptable 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

Page 10 of 12

LSL 5854 Butternut Drive

Analytical Results

	East Syracuse, NY 13	057 (315) 445	-1900		StateCertNo:	10248
CLIENT: Project: W Order:	O'Brien & Gere Oper PAS Oswego, 4th Qu K1612084	ations, LLC. arter Leachate Sampl	es	Lab ID: Client Sample ID:	K1612084-(Tank Effluen 12/07/16	901G 11 Leachate,
Matrix:	WATER			Collection Date: Date Received:	12/07/16 9:10 12/07/16 11:3	5
Inst. ID: ColumnID:	Fisher balance XA	Sample Size: 100 %Moisture:	0 mL	PrepDate: BatchNo:	12/20/16 9:17 23149/R30603	}
Revision: Col Type:	12/22/16 9:26	TestCode OG166	4A	FileID:	1-SAMP-	
Analyte		ResultQu	al PQL	Units	DF	Date Analyzed
OIL AND GR	REASE (LLE)			EPA 1664A	(EP	A 1664A)
Oil and Grease	3	ND	5.0	mg/L	1	12/22/16

Qualifiers:	\$	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Quantiers	Ε	Value exceeds the instrument calibration range	н	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

Analytical Results

12/12/16 13:14

12/12/16 13:14

12/12/16 13:14

	East Syracuse, NY	13057 (315) 445	StateCertNo: 10248				
CLIENT: Project:	O'Brien & Gere Op PAS Oswego, 4th (perations, LLC. Quarter Leachate Sampl	es	Lab ID: Client Sample ID:	K16120 Trip Blai	84-002A uk	
W Order:	K1612084						
Matrix:	WATER Q		· .	Collection Date: Date Received:	0:00 11:35		
Inst. ID:	MS04 73	Sample Size: 10 1	nL	PrepDate:			
ColumnID:	Rtx-VMS	%Moisture:		BatchNo:	R30602		
Revision:	12/22/16 12:48 TestCode 624W			FileID:	1-SAMP-R2184.D		
Col Type:							
Analyte		ResultQu	al PQL	Units	DF	Date Analyzeci	
VOLATILE	DRGANIC COMPOU	NDS BY GC/MS	÷	EPA 624			
1,1,1-Trichloro	ethane	ND	1.00	. µg/L	1	12/12/16 13:14	
Methylene chloride		ND	1.00	µg/L	1	12/12/16 13:14	
Tetrachloroeth	ene	ND	1.00	µg/L	1	12/12/16 13:14	
Тоіцеле		ND	1.60	µg/L	1	12/12/16 13:14	
Trichloroethen	8	ND	1,00	µg/L	1	12/12/16 13:14	

75-130

75-125

75-125

%REC

%REC

%REC

-1

1

1

103

101

102

Qualifiers:

*

Surr: Toluene-d8

Sur: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Value may exceed the Acceptable Level

Value exceeds the instrument calibration range Е

Analyte detected below the PQL J

P Prim./Conf. column %D or RPD exceeds limit

Analyte detected in the associated Method Blank В

- Holding times for preparation or analysis exceeded н
- Not Detected at the Practical Quantitation Limit (PQL) ND
- Spike Recovery outside accepted recovery limits S

				:		1	K16	1208	14				•
SI Central Lab	orat	ories,	Inc.	58(Ea (31	54 Butte st Syrac 5) 445-	ernut D Suse, N 1105)rive New Y	'ork 1	3057		C	hain	of Custody
NE OBRIEN & GERE OPERATIONS			-	·····		T							
ect: PAS CSWEGD, CITY of A	filit	W Pr	emit				,		Ar	alysis	s/Meth	lod	
nt Contact: MARK Brower	hone	# 215					N. C.			×/	No.	/ /	PH-8.35
Sample Des	cripți	ion	010-1	024		/ •	$\langle \rangle \langle \rangle$	64) 64/	1/2	ؿ / ک		K	TEMP 54
TANK EffluenT QC TRIP BLANKS	Dale Collec	e Time ted Collected ////O	Sample Matrix Unit I	Comp. or Grab Comp	No. of Containers	/ 0		6 5 64	- 60) T	- meta	- C. Miller	L'INX -	Comments
					<u>ð</u>			9					
									· · · · · · · · · · · · · · · · · · ·				
wished by: Minthe Vormland		Date: /2 -2	//, Time	://35	Receive	d bý:							
uished by:		Date:	Time		Receive	d by:		-					Time:
ent Method: HAND			Receive	d by Lat	»: <u>k</u>	R.P	h			ate: ate: /3/	Time: 7/16 Time: 11:35		
around Time Required: C	Comme	ents:					Alexano il le comp ligne	and the second second second	ni hi mananjaniki		in the second second	,	

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Conu - Client

Sample R	eceipt (Checklist
----------	----------	-----------

Client Name: OGINA PAS Work Order Number: K1612084

Dale and	Time	Received:

rsd

Received by:

12/7/2016 11:35:00 AM

2.

Checklist completed by: 'フク	19-7-12	Reviewe	d by: D	2/22/6
Initiets	Date		Initials	Date
Delivery Ma	ethod: Hand Deliver	red		
Shipping container/cooler in good condition?	Yes 🗹		Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗌	No 🛄	Not Present 🛛 🕅	
Custody seals intact on sample bottles?	Yes 🛄	No	Not Applicable 🔽	
Chain of custody present?	Yes 🗹	No		
Chain of custody signed when relinquished and received?	Yes 🗹	No []]	•	
Chain of custody agrees with sample labels?	Yes 🗹	No 🛄		
Samples in proper container/bottle?	Yes 🗹	No 🗔		
Sample containers intact?	Yes 🗹	No 🗔		
Sufficient sample volume for indicated test?	Yes 🗹	No []		
All samples received within holding time?	Yes 🗹	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌		
Water - VOA vials have zero headspace?	Yes 🗹	No 🗔	No VOA vials submitted	<u> </u>

Yes 🗹

No 🗌

Water - pH acceptable upon receipt?

рH	Preservative	pH Acceptable	Sample ID
>12	NaOH	Yes 🗹 N 🗋 NA 🗌	
<2	HNO3	Yes 🗹 N 🗔 NA 🗌	
<2	HSO4	Yes 🗆 N 🛄 NA 🗹	
<2	1:1 HCL	Yes 🗌 N 🗌 NA 🗹	
5-9	Pest/PCBs (608/8081)	Yes 🗌 N 🗔 NA 🗹	

Volume of Preservative added in Lab.

Not Applicable

Comments:

ATTACHMENT II

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Title: Project Coordinator

Name: Clay McClarnon

Signature: Well

Date: 3/8/17

Phone: 865-675-7963



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

Via electronic mail

April 13, 2017

Mr. Robert L. Johnson City Engineer Technician 13 W. Oneida City Hall Oswego, New York 13126 darcher@oswegony.gov

Re: Quarterly Discharge Report – 1 st Quarter 2017 Pollution Abatement Services Site – Oswego, New York City of Oswego Wastewater Discharge Permit 6-2017-18

Dear Mr.Johnson:

This quarterly report is submitted in accordance with the City of Oswego Wastewater Discharge Permit 6-2017-18 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Oswego's Eastside Wastewater Treatment Facility. Discharge to the City of Oswego was reestablished in January 2017. This report covers the reporting period from January 2017 through March 2017.

The PAS Site discharged a total of 30,020 gallons of leachate to the Oswego sewer system during the first quarter of 2017.

Discharge to City of Oswego January 2017 – March 2017

30,020 galions

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

Sincerely, de maximis, inc.

Clay Mellamo-

Clay McClarnon

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

F:\PROJECTS\3131 - PAS\Permits-POTW 10\2017\Oswego\Oswego 1st Qtr 2017 rpt.doc



	TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR CITY OF OSWEGO (2017) LEACHATE DISCHARGE TO OSWEGO EASTSIDE WASTEWATER TREATMENT FACILITY (Oswego SIU Wastwater Discharge Permit No.6-2016-18)											
Discharge Quarter	10 2	017										
	Date Discharged (temp/pH)	Gallons Discharged										
	1/7/17	10,010										
	42/6.8											
	2/15/17	10,005						<u></u>				
	44/6.8											
	3/7/17	10,005										
	42/6.8											
Total Discharged		30,020										
Date Sampled*	Permit Limit	3/7/2017 ***										
Analytes	mg/L	mg/L										
Antinomy Arsenic Beryllium Cadmium Chromium (total) Copper Cyanide Lead Mercury Nickel Selenium Silver Thallium Zinc	0.107 0.358 0.107 0.43 0.67 0.43 0.67 0.19 0.0002 0.69 0.282 0.65 0.073 1	0.00075 0.0166 ND <0.0003 ND <0.001 ND <0.0197 ND <0.010 <0.0016 NA 0.296 0.005 ND <0.001 ND <0.001 ND <0.0003 0.0052	-									
VOC** SVOC** BOD 5 TSS Phenolics pH	200 400 0.375 ` 5> and <10	NA NA ND <13.3 64 0.0626 6.6										

* Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.6-2017-18.

** Analytes included for permit pollutant analysis performed every three years

*** Sample taken by City of Oswego

Analyte values in bold exceed limit

ATTACHMENT I

		C	PA)swego	S Site , New	York				
		Lea	<u>chate D</u>	<u>)ischar</u>	<u>ge Form</u>			·	
Date: _/-/	11-17			2	Time		7:45		
Field Technic	ian <u>Mith</u>	Two Koen	wee Ki	*	Weat	her C	ondition	<u>P-Surrey</u>	35
			Dia Di	e Cunro	z Wall Pi	imbr			
WellPump									
	Pump Star	c Pum	p'Stop		ank	Flow	Rate (es	t). Gal Pump	lons d (est)
LCW-1	8:00	9:3	XC)	l	13"			10,21	8
LCW-2	8:00	9:	30			33,5	11 \$ 10218	1-80 = 12	MA GPA
LCW-3	8:00	8:1	V						
LCW-4	8;00	9:	20	5'77	NT-95"	END	- 10"	· ·	
	STANT	21.mo	91 · 0	n	DALMO	ሮጉ /	10 2005		
						e con A			
		Leach	ale DA			81474	<i>muny</i>		
Discharge #	Start	Stop	pH	Temp		r fal	Totalize Flow	r Gallo Dischr	ns y k irge
		Time		和影響區。 法公認時	(Start)	1	Total		
Discharge #1		1110 F	<u></u>	<u>****</u>	7700	<u>.</u>	(End) 7 (20)	a5 10.0	<u>福祉公</u> 10
Discharge #2	7,30	11:25	<u>·</u> 6,8	10	11021		10000	<u>ww.010</u>	<u>. </u>
Total				<u></u>	1025	12)	2864	8
					03.7	OPN	7		
		Leachate	Discha	rge Sa	mpling (Semi	-Annui	illy) 👘	
	Date	Sample	San	iple s	Sample		рĦ	Tempera	ture
Sample #1		Location	: Vol	ume	Time				periodia officiality
Sample #2		<u> </u>							
(if required)]		1						

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		(PA Oswego	S Site	York			
	,	Lea	<u>chate D</u>)ischar	ge Form			
Date: <u>2-</u> /	5-17				Time	:	730	
Field Technic	ian <u>1994 RT</u>	iv Koewa	ver ke		Weat	her C	Conditions ;	SNOW RAININ
Well Pump			Pre-Di	scharg	e Well Pi	unp	ing .	
	Pump Star	t Pum	p Stop-		Fank.	Flor	v Rate (est)	Gallons Primed (est)
LCW-1	850	10:	/1)	STA II	r In.5 ¹¹	10065		
LCW-2	850	10:	/0					
LCW-3	850	0)					
LCW-4	850	10:	10	33	"x 805= /	006	5,580 mm =	125 6.PM
		- 70.				<i>Å</i> 1.1	Tota	10,065
	574 78990	Leach	ate Dis	charge	Pumpin	- 10 8(M	onthly)	
Discharge#	Start Time	Stop Time	64	Temp	Flow To Flow To (Start)	r tál	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10:30	12:30	6.8	44°	78020	5	790230	10,005
Discharge #2	······································							
Total			83,3 6Pm 10,006					
		Leachate	Discha	rge Sa	mpling (Sem	i-Annual	lø2
	Datë	Sample Location	San Vol	iple /*	Sample Time		PH	Temperature
Sample #1								
Sample #2 (if required)								

į

		0	PA swego	S Site , New Y	York	:	
		Leac	hate D	Discharg	ge Form		
Date: 3 -	7-17				Time:	8:00	
Field Technic	ian <u>MART</u>	IN KUEI	vneck	(L	Weathe	r Conditions <u>/</u>	Rains House 40'
			ne-Di	scharg	e Well Pun	iping	
Well Pump.							
	Rump Star	r Eumi Ti	s Stop	El(ank F	low Rate (est).	Gallons Pumped (est)
LCW-1	8:00	9:2	D	4	3,5	125.861	10,065
LCW-2	8:00	8:20)				
LCW-3	<u> </u>	8:10	 >				
LCW-4	8:00	9:0	lo V		,	,	
	START	10,5"	END	43.5	33'2305	= 10, 065 Total	
	PARTING STATISTICS	START	PUMp	<u>9:30</u>	PRIMEDA	<u>t - 9155</u>	
		Leach	ate Di	charge	Pumping	(Monihly)	
Discharge #	Stan	Stop Time	PH	Temp	Fotalizer Flow Total (Start)	Totalizer Elow Total (End)	Gallons Discharge
Discharge #1	9155	11:55	68	420	790230	800235	10,005
Discharge #2	1			, <u> </u>			
Total					83,3	GPM	10,005
		Leachate	Dischu	irge Sa 74)	mpling (Se Teok S	emi-Annuall Amples	p_{\pm}
	Date	Sample	San	nple.40	Sample	Hq	Temperature
23 کا 25 میں ہے۔ 19 کا 26 میں ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک	计前周语 法	Location	IO #	unios: 4		10	1/20

۰,

CAA (Kevin)All Projects/PAS Oswego/Forms/Checklist/PAS Leachate Disposal Checklist_V1_2010.doex

ATTACHMENT II



Pace Analytical Services, LLC 575 Broad Hollow Road Mélville, NY 11747 (631)694-3040

March 24, 2017

John McGrath City of Oswego Waste Water Treatment Facilities 2 First Ave Oswego, NY 13126

RE: Project: PAS SEMI ANNUAL IPP MONITORING Pace Project No.: 7012883

Dear John McGrath:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Payan Torting

Ryan R. Parizo ryan.parizo@pacelabs.com (631)694-3040 Project Manager

Enclosures

cc: Gary Hallinan, City of Oswego Waste Water Treatment Facilities



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Pace Analytical Services, LLC 575 Broad Hollow Road Melville, NY 11747 (631)694-3040

CERTIFICATIONS

Project:	PAS SEMI ANNUAL IPP MONITORING
Pace Project No .:	7012883

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747 New York Certification #: 10478 Primary Accrediting Body New Jersey Certification #: NY158 Pennsylvania Certification #: 68-00350 Connecticut Certification #: PH-0435 Maryland Certification #: 208 Rhode Island Certification #: LAO00340 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PAS SEMI ANNUAL IPP MONITORING

Pace Project No.: 7012883

Sample: TOTAL DISCHARGE	Lab ID: 7012883001		Collected: 03/07/1	7 11:00	Received: 03	/08/17 10:45 M	atrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Quai		
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Antimony	0.75	ug/L	0.40	1	03/16/17 09:43	03/23/17 11:56	7440-36-0			
Arsenic	16.6	ug/L	1.0	1	03/16/17 09:43	03/23/17 11:56	7440-38-2			
Beryllium	<0.30	ug/L	0.30	1	03/16/17 09:43	03/23/17 11:56	7440-41-7			
Cadmium	<1.0	ug/L	1.0	1	03/16/17 09:43	03/23/17 11:56	7440-43-9			
Chromium	<7.0	ug/L	7.0	1	03/16/17 09:43	03/23/17 11:56	7440-47-3			
Copper	19.7	ug/L	2.0	1	03/16/17 09:43	03/23/17 11:56	7440-50-8			
Lead	1.6	ug/L	1.0	1	03/16/17 09:43	03/23/17 11:56	7439-92-1			
Nickel	296	ug/L	0.50	1	03/16/17 09:43	03/23/17 11:56	7440-02-0			
Selenium	5.0	ug/L	2.0	1	03/16/17 09:43	03/23/17 11:56	7782-49-2			
Silver	<1.0	ug/L	1.0	1	03/16/17 09:43	03/23/17 11:56	7440-22-4			
Thallium	<0.30	ug/L	0,30	1	03/16/17 09:43	03/23/17 11:56	7440-28-0			
Zinc	5.2	ug/L	5.0	1	03/16/17 09:43	03/23/17 11:56	7440-66-6			
2540D Total Suspended Solids	Analytical Meti	hod: SM22	2540D							
Total Suspended Solids	64.0	mg/L	20.0	1		03/13/17 17:35				
5210B BOD, 5 day	Analytical Meti	hod: SM22	5210B Preparation N	Method:	SM22 5210B					
BOD, 5 day	<13.3	mg/L	13.3	6.67	03/08/17 15:34	03/13/17 13:11				
Phenolics, Total Recoverable	Analytical Met	hod: EPA 4	20.1 Preparation Me	thod: El	PA 420.1					
Phenolics, Total Recoverable	62.6	ug/L	- 10.0	2	03/23/17 12:00	03/23/17 16:11				
SM 4500 CNE Cyanide, Total	Analytical Met	hod: SM22	4500-CN-E Prepara	tion Me	thod: SM20/22 45	00-CN-C				
Cvanide	<10.0	ug/L	10.0	1	03/21/17 09:47	03/21/17 15:28	57-12-5			

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: PAS Pace Project No.: 7012	SEMI ANNUAL IPP MONIT 1883	ORING				
QC Batch: 17	181	Analysis Meth	iod: EF	A 200.8		-
QC Batch Method: EP	A 200.8	Analysis Des	cription: 20	0.8 MET		
Associated Lab Samples:	7012883001					
METHOD BLANK: 8267	9	Matrix:	Water			
Associated Lab Samples:	7012883001					
•		Blank	Reporting			
Parameter	Units	Result	Límit	Analyzed	Qualifiers	
Antimony	ug/L	<0.40	0.40	03/23/17 17:45		
Arsenic	ug/L	<1.0	1.0	03/23/17 17:45		
Beryllium	ug/L	<0.30	0.30	03/23/17 17:45		
Cadmium	ug/L	<1.0	1.0	03/23/17 17:45		
Chromium	ug/L	<7.0	7.0	03/23/17 17:45		
Copper	ug/L	<2.0	2.0	03/23/17 17:45		
Lead	ug/L.	<1.0	1.0	03/23/17 17:45		
Nickel	ug/L	<0.50	0.50	03/23/17 17:45		
Selenium	ug/L	<2.0	2.0	03/23/17 17:45		
Silver	ug/L	<1.0	1.0	03/23/17 17:45		
Thallium	ug/L	<0.30	0.30	03/23/17 17:45		
Zinc	ug/L	<5.0	5.0	03/23/17 17:45		

LABORATORY CONTROL SAMPLE: 82680

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	ug/L	50	48.1	96	85-115	
Arsenic	ug/L	50	48.8	98	8 5-1 15	
Beryllium	ug/L	50	48.3	97	85-115	
Cadmium	ug/L	50	48.5	97	85-115	
Chromium	ug/L	50	48.8	98	85-115	
Copper	ug/L	50	48.4	97	85-115	
Lead	ug/L	50	47.5	95	85-115	
Nickel	ug/L	50	48.6	97	85-115	
Selenium	ug/L	50	46.3	93	85-115	
Silver	ug/L	50	51.6	103	85-115	
Thallium	ug/L	50	51.0	102	85-115	
Zinc	ug/L	50	47.6	95	85-115	

MATRIX SPIKE SAMPLE:	82682						
Parameter	Units	7013109001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	0.57	5	10.3	195	70-130	M1
Arsenic	ug/L	<1.0	5	4.3	83	70-130	
Bervilium	ug/l.	<0.30	5	4.6	92	70-130	
Cadmium	ug/L	<1.0	5	4.9	96	70-130	
Chromium	ug/L	<7.0	5	19.1	379	70-130	M1
Copper	ug/L	45.5	5	67.5	440	70-130	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS


QUALITY CONTROL DATA

Project: PAS SEMI ANNUAL IPP MONITORING

Pace Project No.: 7012883

MATRIX SPIKE SAMPLE:	82682	7013109001	Snike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	ug/L	<1.0	5	2.2	40	70-130	M1
Nickel	ug/L	<5.0	5	38.7	774	70-130	M1
Selenium	ug/L	<2.0	5	3.7	36	70-130	M1
Silver	ua/L	<1.0	5	4.7	93	70-130	
Thallium	ua/L	<0.30	5	5.0	99	70-130	
Zinc	ug/L	8.1	5	52.2	882	70-130	M1

SAMPLE DUPLICATE: 82681

Parameter	Units	7013109001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	0.57	0,65	13	
Arsenic	ug/L	<1.0	<1.0		
Bervillum	ug/L	<0.30	<0.30		
Cadmium	ug/L	<1.0	<1.0		
Chromium	ug/L	<7.0	<7.0		
Copper	ug/L	45.5	45.2	1	
Lead	ug/L	<1.0	<1.0		
Selenium	ug/L	<2.0	2.9		
Silver	ug/L	<1.0	<1.0		
Thailium	ug/L	<0.30	<0.30		
Zinc	ug/L	8.1	9.2	່ 13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pace Project No.:	PAS SEMI ANNUA 7012883	L IPP MONITORING	i				
QC Batch:	16776	<u></u>	Analysis	Method:	SM22 2540D		
QC Batch Method:	SM22 2540D		Analysis	Description:	2540D Total S	uspended Solids	
Associated Lab Sar	mptes: 70128830)1					
METHOD BLANK:	81359		Ma	trix: Water			
Associated Lab Sar	nples: 701288300)î					
_		•• •	Blank	Reportir	ig Autobie	- d	
Parar	neter	Units	Result		Analyze		ers
Total Suspended So	plids	mg/L	<.	1.0	1.0 03/13/17 1	17:35	
LABORATORY CO	NTROL SAMPLE:	81360	<u></u>	÷			
Parar	neter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended So	blids	mg/L	200	192	96	85-115	
SAMPLE DUPLICA	TE: 81361						
Parar	neter	Units	701288300 Result	1 Dup Result	RPD	Qualifiers	i
Total Suspended So	blids	mg/L	64	4.0	66.0	3	
SAMPLE DUPLICA	TE: 81362				<u> </u>		
Parar	neter	Units	701305000 Result	n Dup Result	RPD	Qualifiers	<u>.</u>
Total Suspended So	blids	mg/L	6	320	732	11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: Pace Project No.:	PAS SEMI ANNUA 7012883	l IPP Monitoring						
QC Batch:	16167	· · · · · · · · · · · · · · · · · · ·	Analysis M	lethod:	SM22 5210B			
QC Batch Method:	SM22 5210B		Analysis D	escription:	5210B BOD, 5	day		
Associated Lab San	nples: 701288300	01						
METHOD BLANK:	78697	· · · · · · · · · · · · · · · · · ·	Matri	x: Water				
Associated Lab San	nples: 70128830(01						
Paran	neter	Units	Blank Result	Reporting Limit	Analyze	d Qualifi	ers	
BOD, 5 day	<u></u>	mg/L	<2.	0 :	2.0 03/13/17 1	1:37		
LABORATORY CON	TROL SAMPLE:	78698				0/ 17=0		
Paran	neter	Units	Spike Conc.	LCS Result	% Rec	% Rec	Qualifiers	
BOD, 5 day		mg/L	198	200	101	84.5-115.4		
SAMPLE DUPLICA	TE: 78699							
Paran	neter	Units	7012732001 Result	Dup Result	RPD	Qualifiers	š .	
BOD, 5 day		mg/L	18	4 1	89	3		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pace Project No.:	PAS SEMI ANNU. 7012883	AL IPP MONITORING	G					
QC Batch:	17879		Analysis Me	thod:	EPA 420.1			
QC Batch Method:	EPA 420.1		Analysis De	scription:	420.1 Phenolics	Macro		
Associated Lab Sar	nples: 70128830	101						
METHOD BLANK:	85684		Matrix	: Water				
Associated Lab Sar	nples: 70128830	01						
Dares		1 Inite	Blank	Reporting	Analyzed	Quali	fiore	
Parar		Units	Result	LIIIII				
Phenolics, Total Rec	coverable	ug/L	<5.0	5.	0 03/23/17 15:	48		
LABORATORY CO	NTROL SAMPLE:	85685	Spike	LCS	LCS	% Rec		
Paran	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Phenolics, Total Red	coverable	ug/L	30	31.8	106	90-110		
MATRIX SPIKE SAI	MPLE:	85686					<u> </u>	
			7013176001	Spike	MS	MS	% Rec	
Paran	neter	Units	Result	Conc.	Result	% Rec	, Limits	Qualifiers
Phenolics, Total Red	coverable	ug/L	<	5.0 20	16.2	i	81 75-125	
SAMPLE DUPLICA	TE: 85687				·····	······································		
			7013176001	Dup		o		
Paran	neter	Units	Result	Result		Qualifie	rs	
Phenolics, Total Red	coverable	ug/L	<5.0	<5.	0			

Results presented on this page are in the units indicated by the "Units" column except where an atternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PAS SEMI AN Pace Project No.: 7012883	NUAL IPP MONITOR	ING					
QC Batch: 17562		Analysis Meth	nod: S	M22 4500-CN-	=		
QC Batch Method: SM20/22 450	0-CN-C	Analysis Desc					
Associated Lab Samples: 70128	83001						
METHOD BLANK: 84096		Matrix:	Water				<u></u> .
Associated Lab Samples: 70128	83001						
Paramoter	Linits	Blank Result	Reporting Limit	Analyzed	Qualifier	'S	
Cyanide	ug/L	<10.0	1 <u>0</u> .1	03/21/17 15:	27		
LABORATORY CONTROL SAMPL	E: 84097	Spiko I		105	% Bec		
Parameter	Units	Conc. R	esult	% Rec	Limits	Qualifiers	
Cyanide	ug/L	75	72,5	97	85-115		
MATRIX SPIKE SAMPLE:	84098				<u></u>	<u> </u>	
Parameter	Units	7012883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.	0 100	82.3	81	75-125	
SAMPLE DUPLICATE: 84099	·····	704202004					
Parameter	Units	Result	Result	RPD	Qualifiers		
Cyanide	ug/L	<10.0	<10.	0			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project:	PAS SEMI ANNUAL IPP MONITORING
Pace Project No.:	7012883

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Melhod 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pace Project No.:	PAS SEMI ANNUAL IPP MONITORING 7012883				
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7012883001	TOTAL DISCHARGE	EPA 200.8	17181	EPA 200.8	17189
7012883001	TOTAL DISCHARGE	SM22 2540D	16776		
7012883001	TOTAL DISCHARGE	SM22 5210B	16 1 67	SM22 5210B	16836
7012883001	TOTAL DISCHARGE	EPA 420.1	17879	EPA 420.1	17923
7012883001	TOTAL DISCHARGE	SM20/22 4500-CN-C	17562	SM22 4500-CN-E	17580

REPORT OF LABORATORY ANALYSIS

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12 of 13

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Sa	ample Condition Upon Rec PM: RRP Due Date: 03/28/17	
	CLIENT: COWWTF	
Client Nam	e:	
£		
Courier: 🖌 Fed.Ex TUPS (JUSPS TIDie	ant Dommercial Chase Other Continuate and	
Tracking #: 77859414 3205	COMPUTER TAXAN	
Custody Seal on Cooler/Box Present:	, Kno Seals intact: Lycs Kno Seals intact	
Backing Material Bubble Wrap	e Bags None ZOther 211044	
Thermometer Used: TH077 TH078	Type of Ice: Wet Blue None Samples on ice, cooling process has beg	un
	Date and Initials of person examinit	ng
	Comments:	-
Temp should be above traezing to o c		
Chain of Custody Present.		,
Chain of Custody Filled Out		
Chain of Custody Relinquished;		
Sampler Name & Signature on COC:		_
Samples Arrived within Hold Line:		
Short Hold Time Analysis (<72hr):		
Rush Turn Around Time Requested:		
Sufficient Volume:		
Correct Containers Used:		
-Pace Containers Used:		
Containers Intact:		
Filtered volume received for Dissolved tests		
Sample Labels match COC:		1
-Includes date/time/ID/Analysis Matrix S	The second for the second for the second sec	and
All containers needing preservation there are	BYes UNO UNIA 13- TICHISTORY -CU JCVUINCETU Cyc	Bor
All containers needing preservation are found to be in	Dyes Dito Divia Initial when the preservative: 26AP	<u> </u>
compliance with EPA recommendation.	3817	
	preservative added: 1130	
Exceptions: VDA, micro, TOC, O&G	TYES FINO KINA 14.	
Samples checked for dechloring ton.	[Yes DNo [IN/A 15.	
Headspace in VOA Viais (>omin):	Dyes Dive DNA 16.	
Trip Blank Present:		
Trip Blank Custody Seals Present		
Pace The Blank Lot # (in poromocol)		·
Client Notification/ Resolution:	Field Data Required? Y / N	
Person Contacted:	Date/Hime:	
Comments/ Resolution:		
		

* PM (Project Manager) review is documented electronically in LIMS.

II-D

2ND QUARTER REPORT 2017



<u>QUARTERLY PROGRESS REPORT – 2nd QUARTER 2017</u> Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: Pollution Abatement Services Site Oswego, New York

PERIOD COVERED: April – June (2nd Quarter) 2017

ACTIONS TAKEN DURING QUARTER:

- Leachate removal and site maintenance and monitoring activities were conducted at the Pollution Abatement Services (PAS) site (Site), in Oswego, NY by OBG Operations LLC (OBG) consistent with the PAS Site Operation, Maintenance and Long-term Monitoring Plan (Work Plan).
- A total of 50,015 gallons of leachate were removed from the Site during the period of April, May and June 2017. Specific quantities of leachate removed included 10,005 gallons in April, 20,005 gallons in May and 20,005 gallons in June. Details of the leachate removal for each month, along with historical leachate removal documentation are described in this progress report.
- During the months of April June 2017, leachate was pumped monthly from the PAS Site. The leachate was pumped into the City of Oswego East Side Wastewater Treatment Plant in accordance with City of Oswego Industrial User Permit no. 6-2017-18.
- Quarterly groundwater elevation monitoring was performed on May 1, 2017. Quarterly groundwater elevation monitoring results for the SWW- series monitoring wells (SWW-1 through SWW-12), leachate collection wells (LCW-1 through LCW-4), M-series wells (M-21 through M-23), LR-series wells (LR-2, 3, 6 and 8), LD-series wells (LD-3, 4, 5, 6, and 8), along with wells OS-1, OS-3, OI-1, OD-3 and LS-6 were recorded on the Pre-Pumping Well Monitoring Level Form. (Attachment D-1)
- Site maintenance activities were conducted monthly in combination with the monthly leachate removal event. The Site Inspection Checklist was used to document the land cap, leachate discharge system, leachate collection system and general Site conditions. (Attachment C-2) Monthly Site maintenance activities included the following:
 - Inspected the perimeter security fence of the Site. No discrepancies were reported at the time of the inspection.
 - The Site single French drainage system and two (2) concrete troughs were visually inspected. No discrepancies were reported at the time of the inspection.
 - Visually inspected the Site slurry-wall containment vegetated cap for signs of burrowing vermin or surface anomalies. No discrepancies were reported at the time of the inspections.



- 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 were 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 were inspected. No discrepancies were reported at the time of the inspection.
- On April 4, May 4, and June 8, 2017, OBG performed the monthly pre-pumping collection system inspection for leachate collection wells LCW-1, 2, 3 & 4, along with inspection of the leachate discharge pumping system. Observations were recorded on the Site Inspection Checklist. In advance of each leachate removal event, OBG informed the City of Oswego POTW of the anticipated discharge. (Attachment D-2)
- Upon completing the monthly leachate collection system inspections, OBG manually energized the 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, was recorded on the Leachate Disposal Checklist. (Attachment D-2)
- During the months of April, May and June 2017, OBG pumped a combined total of 50,015 gallons of leachate from LCW 1, 2, 3 & 4 into the leachate collection tank and then into the City of Oswego POTW. The volume and flow rate of each leachate discharge was recorded onto the Leachate Disposal Checklist, as was leachate water pH, and temperature. The amount discharged was recorded onto the Leachate Disposal Checklist. No leachate was shipped to Auburn New York during the period. Therefore, no bill of lading was generated. (Attachment D-2)
- Upon completing each monthly leachate discharge the tank suction hoses were placed back into the leachate hold tank and the leachate pump system was shut down and prepared for storage. The concrete leachate hold tank was secured, as was the wooden maintenance shed. Upon the completion of monthly Site activities, the Site metal access gates were closed and padlocked.
- On May1, 2017, OBG performed the semi-annual groundwater sampling for monitoring wells LR-8, M-21, and leachate collection wells LCW2 and LCW4. Based on the 2016 Annual Report, well OD-3 was included in the sampling event, and wells M-22 and LR-6 were not sampled during this event. Sampling activities for long term monitoring wells were conducted using low-flow sampling protocols described in the Work Plan. Samples were preserved using industry standard methods, and delivered to Life Science Laboratories in East Syracuse, NY for analysis. (Attachment D-3)

de maxímis, inc.

• The PAS Oswego Site quarterly discharge report for the 2nd quarter of 2017 for the City of Oswego was submitted on July 14, 2017 in accordance with Permit 6-2017-18. The quarterly report to the City of Auburn was submitted on June 5, 2017. (Attachment D-4)

DOCUMENTATION OF REMOVAL ACTIVITIES FOR PREVIOUS QUARTER

- The Groundwater Pre-Pumping Well Monitoring Level Form for May 1, 2017 is attached to this report. (Attachment D-1)
- The Site Inspection Checklist for April 4, May 4 and June 8, 2017 are attached to this report. (Attachment D-2)
- The Leachate Disposal Checklist for the April 4, May 3 and June 8, 2017 are attached to this report. (Attachment D-2)
- The validated lab report for the Semi-annual Groundwater sampling of LR-8, M-21 and the sampling for, LCW2, LCW4 and OD-3 performed on May 1, 2017 is attached to this report. (Attachment D-3)
- The PAS Quarterly Discharge reports submitted on July 14, 2017 to the City of Auburn and the report submitted to the City of Oswego on June 5, 2017 are attached to this report. (Attachment D-4)

ATTACHMENT D-1

GROUNDWATER ELEVATION DATA

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O'Brien & Gore Operation (O'Brien & Gere) PAS Oswego Site Oswego, New York Pre-Pumping Well Monitoring Levels

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ate-	5-1-1	ነ		Technician -	MALIN	Koennee	k.			Month -
Well	Riser .	. Well	Range Verlfic	ation	C U B M S	MonthlyC	nsitë flelo	Measure		Ser Asher Shere
Number	Elevation	Average Well Level	Low Weli Level	High Well Level	Wall Laval (1st) Check	Well Level (2nd) Checks	Well With Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual nge Tote vel nu NO	Well Level Check (178) (1980) (1987 as an Unit Marian (1987 as an Unit Marian Mariana Mariana Mariana br>Mariana Marian Mariana Mariana Mariana Marian Marian Mar	NOTES	
SWW1	289.33	9.27	8,22	10.00	8,94	8,96	4			· · · · · · · · · · · · · · · · · · ·
SWW2	289.37	15.05	14.48	15.42	14,14	14.14	F AK	1	14,14	
S <u>WW</u> 3	286.50	16.63	16,24	17.00	15,84	15.84		r	15,84	
SWW4	283.60	14.76	12.62	15.94	14.18	14,18	V			·····
5WW5	277.02	12.75	11.74	13.45	13.05	13.05	<u> /</u>	<u> </u>		····
SWW6	273.06	8.61	7.58	9.21	8,02	8.02	V.			<u> </u>
SWW7	277.93	7.56	7.16	7.90	7.02	7.02		<u>v</u>	7.02	
SWW8	278.24	4.02	3,40	4.54	3,48	3.48	V			
SMM9	285,55	16.44	15.68	17.16	16,30	16.30	V			
SWW10	280.43	11.28	8.50	12.62	10,3a	10,32	V			
SWW11	273,50	8.65	7.50	9.50	9.22	9.22	1	ļ,		
SWW12	272.82	8.64	7.58	9.23	7.9a	7:92				
LCW-1	272,21	8.15	7.04	9.12	9.04	9.04				
LCW-2	274.44	10.40	9.27	11,36	11.28	11.28		 		
LCW-3	284.36	17.70	17.24	18,05	17.60	17.60		<u> </u>	<u> </u>	
LCW-4	285.70	17.67	16.82	18.56	17.12	17.12	V.	ļ		
05-1	272.10	9.01	6.40	11.40	7.24	7,24	V.	ļ		
01-1	272.00	11.24	10.14	12.28	10,84	10.84	V	 		· · · · ·
05-3	277.89	14.23	<u>11.70</u>	15.30	14.05	14.05	V			
OD-3	277.85	14.07	11.58	15,12	13.88	13,88	V		ļ	
<u>LD-3</u>	278.62	4.23	3.78	4.64	3.86	3.86	<u> </u>		ļ	
LD-4	279.25	10.79	8.68	11.79	10,48	10.48				· · · · · · · · · · · · · · · · · · ·
LD-S	272.94	8.73	7.84	9.42	8,28	8.98	1-		۱ <u> </u>	
LS-6	274,14	9.65	7.95	10.74	19,46	<u> </u>		<u> </u>		······································
LD-6	274.03	10.02	9.32	10.65	1.40	9,90		 	<u> </u>	<u> </u>
LD-8	272.83	7,37	6.08	8,30	6.80	6.80			<u> </u>	
LR-2	289.85	13.22	12.95	13.42	13,00	13,00		 	<u> </u>	
LR-3	278.06	7,78	7.10	8.36	17,40	7.40			<u></u>	
LR-6	274,39	10.17	9.44	10.66	<u>14,44</u>	9/99	۲×		<u> </u>	
LR-8	273.42	9.85	9.04	10.35	4.54	9.54		<u> </u>		
M-21	272.32	9,53	8,75	20.02	4.18	4.18	V		<u> </u>	
M-22	273.88	10.18	9.38	10.64	4.94	9.44				<u> </u>
M-23	270.49	12,11	11.02	12.88	12.00	12,00	<u> </u>	J		<u> </u>

,

ATTACHMENT D-2

SITE INSPECTION CHECKLIST AND LEACHATE DISPOSAL CHECKLIST



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 4-4-14

Field Technician MARTIN Koenneck

Weather Conditions RAIN SHOWLES 48°

	Che	ck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	V		NONE VISABLE
Land cap irregularities (note			
anomaly)	ν	<u> </u>	OK
French drainage system clear and			
function able	V	ļ	Yes
Concrete trough clear and			
function able	V		Yes
Leachate Discharge System			
City of Oswego sanitary discharge			
valve positioned "Open"	V		yes
Discharge Pump inspected &			14
operational	V		Yes
Discharge pump oil level verified			
prior to use.	V	·]	Yes
Discharge pump drained of residual water (drained upon completion of monthly discharge)	V		Yes
Heat trace system operational & verified in the "ON" position (Applicable Oct - May)	ι		ON
Flow totalizer operational. Flow		[
readings recorded onto	ļ	1	
"Leachate Discharge Form"	_ <u>_</u> _	4_	<u>yes</u>
Leachate Collection System			
Leachate holding tank visually			
inspected for structural integrity		/	OK
Leachate holding tank metal root			•
inspected for structural integrity		4	OK

1

4	 4	-	17
· /	7	-	

	<u> </u>		
Leachate tank access doors			
locked (post pump out)	V	<u>7es</u>	
Pump power panel(s) secured	V	Yes	
Monitoring Wells (MW)			
Locks installed	V	Yes	
MW's marked & identifiable	\checkmark	0K	
General Site Condition			
Trees & brush cleared off security			
fence		WORK IN PROGRESS	
Perimeter security fence intact &		,	
free of damage	V	OK.	
Site access driveway inspected &			
free on snow & damage	V	OK	
Security access gates / Padlock &		· · ·	
chain serviceable	V	Yes	
Site gate signage intact	V	Yes	1
Interior & exterior of utility			
storage shed inspected for			
damage & secure with locks	V	Yes	
Fire extinguisher serviceable,			
inspected, and inspection			
recorded		Yes	
Spill control material inspected &			
adequate	V	OK	
PPE available and utilized as			
required	V	Yes	4
Emergency contact information		No.	
posted within shed	V	Yes]
Additional remarks (use separate	sheet i	s required)	
PUMPED 10,000 cullis	t To	City of Oswego POTW	
Replace free Exa. 1	vith	Newly Inspected one	
		· · ·	



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 5-4-10

.

Time 6:40

Field Technician MARTIN Koennecke

Weather Conditions OVERCAST 45°

	Che	ck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	5-	_ <u>.</u>	NONE VISABLE
Land cap irregularities (note			
anomaly)	V	Ļ	OK
French drainage system clear and			N
function able	V	 	yes
Concrete trough clear and			100
function able	V	r 	725
Leachate Discharge System			
City of Oswego sanitary discharge	ļ		
valve positioned "Open"	<u> </u>		N4
Discharge Pump inspected &			
operational	<u> </u>	1	BUMPED PUMP OVER
Discharge pump oil level verified			
prior to use.	~		OK
Discharge pump drained of			
residual water (drained upon			A / A
completion of monthly discharge)		<u> </u>	NH
Heat trace system operational &			
verified in the "ON" position			.06
(Applicable Oct - May)	V	<u></u>	01
Flow totalizer operational. Flow			
readings recorded onto			
"Leachate Discharge Form"	1	<u> </u>	NA
Leachate Collection System			
Leachate holding tank visually			
inspected for structural integrity		4_	0K
Leachate holding tank metal roof	.		
inspected for structural integrity		\square	IOK

1

Leachate tank access doors		
locked (post pump out)		
Pump power panel(s) secured	~	Yes
Monitoring Wells (MW)		
Locks installed	V	Yes
MW's marked & identifiable	V	oK
General Site Condition		
Trees & brush cleared off security		
fence	V	work in progress
Perimeter security fence intact &		
free of damage	\checkmark	0K
Site access driveway inspected &		
free on snow & damage	V	0K
Security access gates / Padlock &		
chain serviceable	V	Yes
Site gate signage intact	1	Yes
Interior & exterior of utility	l	
storage shed inspected for		
damage & secure with locks	V	Yes
Fire extinguisher serviceable,		
inspected, and inspection		
recorded	V	Yes
Spill control material inspected &		5.0
adequate	$ \vee $	<u>Yes</u>
PPE available and utilized as	ļ	
required	1V	
Emergency contact information		
posted within shed		1 1705

Additional remarks (use separate sheet is required)

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PUMAED AND ATUSUDIH-20,000 cul. LEACHINE	
SHIMED TO POTW CITY of AUBURN. BY SUN ENVI.	
Per Snamme Semi Annuel well Sampling & QUARTERLY	
well Levels	



Site Inspection Checklist (V2)

Former Pollution Abatement Services (PAS Oswego) Oswego, New York

Date 6-8-17

Time <u>7:45</u>

Field Technician MARTIN KOENNecke

Weather Conditions Survey 53°

	Che	ck V	(tasks completed in each event)
Inspection Features	Monthly	Quarterly	Remarks (indicate accomplishment of each maintenance task)
Land Cap			
Signs of burrowing vermin	~		NOWE VISABLE
Land cap irregularities (note	V		0K
anomaly)		<u> </u>	
French drainage system clear and function able	V		ok
Concrete trough clear and			
function able			OR
Leachate Discharge System	<u> </u>		
City of Oswego sanitary discharge	V		Yes
Discharge Pump inspected &	V		Yes
Discharge pump oil level verified			Yes
Discharge pump drained of residual water (drained upon completion of monthly discharge)	V		Yes
Heat trace system operational & verified in the "ON" position (Applicable Oct - May)			08f-
Flow totalizer operational. Flow readings recorded onto "Leachate Discharge Form"		/	Ye5
Leachate Collection System		_ _	
Leachate holding tank visually			0K
Leachate holding tank metal roof inspected for structural integrity			OK

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6-8-17

Leashata tank access doors	1	
Leachate tank access doors		Yos
locked (post pullp out)		Ya C
Pump power panel(s) secured		1.783
Monitoring Wells (WW)		V.c
Locks installed		145
MW's marked & identifiable		
General Site Condition		
Trees & brush cleared off security		where an Deschert
fence		WORK IN [ROURD]
Perimeter security fence intact &		Vor
free of damage		Yes
Site access driveway inspected &		
free on snow & damage		0K
Security access gates / Padlock &		N
chain serviceable		Yes
Site gate signage intact	V	Yes
Interior & exterior of utility		
storage shed inspected for		
damage & secure with locks	V	Yes
Fire extinguisher serviceable,		
inspected, and inspection		
recorded	V	Yes
Spill control material inspected &		
ademiate	V	Yes
PPF available and utilized as	1-1-	
required	1	Yes
Emergency contact information		
nosted within shed	v	Yes
	choot ic	required)
Additional remarks (use separate	f L	enchate To OSWERD POTW
IUMPED DO, OU YPL	arriba	A sample of Leachitte
J. ITINGRATH IDOK IN	C	HED AND TANK
Weldwack Vertimon His	<u>,00000</u> ,2	Apt you the and the second sec
· · · · · · · · · · · · · · · · · · ·		

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		BRIEN 6					. • •				
			Os	PAS wego, I	Site New Y	ork					
			Leacl	hate Dis	charg	e F <u>orm</u>			•		
	Date: <u>4-4</u>	1-17	÷.			Time	:8;	30	<u>.</u>		
-	Field Technici	an <u>MARTIN</u>	Koenna	<u>upi</u>		Weat	her Co	nditions <u>}</u>	AND SHOWE	<u>es</u> 48°	
	Well Pump	Pump Start	P P P Pump	r <i>e-Disc</i> Stop	<i>harge</i>	<i>Well Pa</i> ank	mpin Elor	g Rate (est)	Gailons		
	LCW-1	Time 8:40	10.00	DC	Elev 4	ation	<u>124</u>	5.8 6Pm	10,065		
:	LCW-2	8 4 D	10:0	0			•				1
	LCW-3	8:40	8:5	0						·	
·	LCW-4	8:40	10:0	0				Total	``		
· ·	ST HAT Discharge # Discharge #1 Discharge #2 Total Sample #1	- 10,5" \$ Start Time //// 25 // Date	To P 43 Leach Stop Time 22:25 eachate Sample Location	, 5 " He Disc PH 6, 8 Dischar Sam Volu	S harge Femp 450 ge Sa	Tent Po Pumpin Totaliz Flow To (Start 800a 800a mpling (Sample Time	Semi-	Iotalizer Flow Totalizer Flow Total (End) (End) (10240	Gallons Discharge 14005 W		
.'	Sample #2 (if required)										



o'Brien 5 gere

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego) Oswego, NY

Date: <u>5-3-17</u>

Time: <u>9:10</u>

Field Technician MARTIN KDENNECK-

Weather Conditions <u>Mercust 44</u> °

Beginning		Pi	e-Discharge	Well Pumpi	ng	
Leachate Hold Tank Elevation	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped Into
(inches)						Holding Tank (Gallons)
10,5"	LCW-1	9.15	INTROMITTEN 13:00		124.5	·
<u> </u>		9:15	13,50			
· · · · · · · · · · · · · · · · · · ·	I CW-4	4:15	4:30			
		4:12	3,00		 Total	<u> </u>

10,5"-35"= 24.5"x305=7472.5 gul 60min = 7472.5 -60 = 124.5 6FM

	Monthly Leachate Discharge Pumping (To the City of Oswego)									
Discharge #	Start Time	Stop Time	рН	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge			
Discharge #1	10;35	14:30	6.80	46°	810240	830245	; 20,005			
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum						
START Pump 10:15	85	25mm	O	8. ^{1/}		<u> </u>	<u> </u>			
)	Semi-Ar	nnual Le	achate Di	ischarge S	Sampling (I	Per the City of Q	swego Permit)			
	Date	Sampl Locatio	e San on Volu	nple S ume	Sample Time	рН 1	lemperature			
Sample #1				·						



Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego) Oswego, NY

Date: <u>6-8-17</u>

Time: 7:45

Field Technician MARTIN Keennecke

Weather Conditions Sunny 50°

Beginning		PI	e-Discharge	Well Pumpi	ng	
Hold Tank Elevation (inches)	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est. Leachate Pumped Into Holding Tank (Gallons)
12"	LCW-1	7:45	920	48,5	117 6Pm	1130
	LCW-2	7:45	9:20	RESTHATE	D Primps	Inten withaly
	LCW-3	17:45	8:00	Till 12	:00	/
. <u></u>	LCW-4	7:45	. 9:20			
	<u>.</u>		<u> </u>	,	Total	20,000

				Flow Tota (Start)	I Flow Total (End)	Discharge
930	13:25	6.8	53°	830245	850250	20,005
Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
85	20 mil	0	8			
Semi-Ar	nnual Le	achate D	ischarge S	Sampling	(Per the City of Os	wego Permit)
Date	Sampl	e San on Vol	nple s ume	Sample Time	∽рН Т	emperature
	930 Jow Rate (GPM) 85 Semi-Ar Date	930 13:25 Jow Rate Prime (GPM) Time 85 20 _{M/V} Semi-Annual Le Date Sampl Locatis	930 13:25 6.8 Jow Rate Prime Pump (GPM) Time Pressure 85 20_m.v 0 Semi-Annual Leachate D. Date Sample Sar Location Vol	930 13:25 6.8 55 Jow Rate Prime Pump Pump (GPM) Time Pressure Vacuum 85 20 min 0 8 Semi-Annual Leachate Discharge S Date Sample Sample Location Volume 1	930 13:25 6.8 55 830413 Jow Rate Prime Pump Pump (GPM) Time Pressure Vacuum 85 20_MAL 0 8 Semi-Annual Leachate Discharge Sampling Date Sample Sample Location Volume Time	930 13.25 6.8 55 830.443 830.443 Jow Rate Prime Pump Pump (GPM) Time Pressure Vacuum 85 20.04.0 0 8 Semi-Annual Leachate Discharge Sampling (Per the City of Os Date Sample Sample Sample PH T Location Volume Time T T T

START PUMp-9:10 PRIMED @ -9:30

ATTACHMENT D-3

SEMI-ANNUAL LEACHATE AND GROUNDWATER MONITORING MAY 2017

**ddms

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DATA VALIDATION

FOR

WATER MONITORING PAS Oswego OSWEGO, NEW YORK

ORGANIC ANALYSIS DATA Volatiles in Water Laboratory Job No. K1705024

Analyses Performed

By:

Life Sciences Laboratory East Syracuse, NY

For:

de maximis, inc. Knoxville, TN 37919

Data Validation By:

ddms, inc. St. Paul, Minnesota 55108

June 9, 2017

1547-3131/psn PAS\K1705024Voa

EXECUTIVE SUMMARY

Validation of the volatile organics analysis data prepared by Life Sciences Laboratories, Inc. for seven water samples, one equipment blank, and one trip blank supporting the PAS Oswego Semi Annual Well Sampling event has been completed by de maximis Data Management Solutions, Inc. (ddms). The data were reported by the laboratory under Laboratory Job No. K1705024. The following samples were reported:

Equipment Blank	M-21	LR-8	OD-3	X-1
LR-6	LCW-2	LCW-4	Trip Blank	

Based on the validation effort, the following qualifiers were applied:

- The result for methylene chloride in LCW-2 was qualified as not detected (U) at the analyte-specific reporting limit.
- Results for acetone in M-21, LR-8, OD-3, X-1, LR-6, LCW-2, and LCW-4 were qualified estimated (J-, UJ) and may be biased low.
- 1,2-Dichloroethane in LCW-4 was qualified as not detected (U) at the analyte-specific reporting limit.
- Results for total trichloroethene in LCW-4 and LCW-2 and xylenes in LCW-4 were qualified as presumptively present (N).

All other results were determined to be valid as reported. Details of the validation findings and conclusions based on review of the results for each quality control requirement are provided in the remaining sections of this report.

Documentation issues are discussed in Section XIII.

This report should be considered <u>part of the data package</u> for all future distributions of the volatiles data.

INTRODUCTION

Analyses were performed in accordance with USEPA SW-846 Method 8260C. This method does not stipulate a reporting format, however, the laboratory provided a "CLP-type" data package for review. Results of sample analyses were reported by the laboratory without qualifications.

Since no validation guidelines specific to the analytical method employed are available, ddms' validation was performed, to the extent possible, in conformance with EPA's "Validating Volatile Organic Compounds by Gas Chromatograpy/Mass Spectrometry, SW-846 Method 8260B & 8260C, SOP NO. HW-24, Revision 4" as well as ddms' "Standard Operating Procedure: Validation and Review of Volatile Organic Data; ECS-SOP-003". Professional judgment was applied as necessary and appropriate.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the referenced methods. An initial assumption is that the data package is presented in accordance with the CLP requirements (or "CLP-like," as in this case). It is also assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission for validation.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added by the data validator. Validated results are, therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Final validated results are annotated with the following codes as defined by the Region II Guidelines:

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) Criteria. The analyte may or may not be present in the sample.

These codes are recorded on the Data Summary Forms contained in Attachment A and the Organic Analysis Report Sheets in Attachment B of this validation report to indicate qualifications placed on the results based on the data review.

All data users should note two facts. First, the "R" qualifier means that the laboratory-reported value is unusable. In other words, due to significant quality control problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Rejected values should not appear on data tables because they cannot be relied upon, even as a last resort. Second, no concentration is guaranteed to be accurate even if all associated quality control is acceptable. Strict quality control conformance serves only to increase confidence in reported results; any analytical result will always contain some error.

The data user is also cautioned that the validation effort is based on the raw data printouts as provided by the laboratory. Software manipulation cannot be routinely detected during validation; unless otherwise stated in the report, these kinds of issues are outside the scope of this review.

1. Holding Times, Preservation and Sample Integrity

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection dates of May 1-2, 2017. The samples were hand delivered to the laboratory on May 2, 2017. The temperature of the cooler on receipt at the laboratory was outside the acceptance criteria (7.2° C; criteria 4.0° C \pm 2.0° C). No data were qualified on this basis, since the temperature was only slightly out of the acceptance criteria. Acceptable preservation of samples (pH <2) was noted on the injection log and was also included in the narrative. The samples were analyzed on May 3, 2017, within the 14-day holding time for preserved samples.

II. GC/MS Instrument Performance Check

Summary forms were provided for two bromofluorobenzene (BFB) instrument performance check run on instrument "MSN76", representing the periods during which the samples and associated standards were analyzed. The performance checks were fully documented and acceptable.

III. Calibration

Manual integrations were indicated on the IC quantitation reports for several analyte responses, however no supporting documentation was provided to verify that the integrations were appropriately performed. The validation was completed under the assumption that all manual integrations were appropriately performed.

A. Initial Calibration (IC)

One IC was performed in support of these sample analyses. Documentation of all of ten of the individual IC standards was present in the data package and relative response factors (RRFs) as well as percent relative standard deviation (%RSD) values were accurately reported. All reported %RSD values were below the maximum acceptance limit of 20 percent for all site-specific compounds.

B. Continuing Calibration (CC)

One CC was performed on May 3, 2017. All RRF values were acceptable. All percent difference values were acceptable with the exception with the exception of methyl acetate which exhibited an increase in sensitivity from the IC. Since this compound was not detected in any of the samples, no data were qualified on this basis.



IV. Blanks

One laboratory method blank was analyzed in support of these samples. One trip blank and one equipment blank were submitted in support of these samples. Methylene chloride was detected in the method blank (0.17 μ g/L) and the equipment blank (0.26 μ g/L). The result for methylene chloride in LCW-2 was qualified as not detected (U) at the analyte-specific reporting limit due to associated blank contamination. No other compounds were detected in any of the blanks.

V. Surrogate Compound Recovery

Recoveries of all of the surrogate compounds were correctly calculated, accurately reported, and within acceptance limits.

VI. Spike Analysis

A. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were performed on M-21. All percent recoveries were acceptable with the exception of acetone in the MS and MSD (56 and 59%R; data validation criteria 70-130%). Results for acetone in M-21, LR-8, OD-3, X-1, LR-6, LCW-2, and LCW-4 were gualified estimated (J-, UJ) and may be biased low due to MS/MSD recoveries.

B. Blank Spike

Two blank spikes were reported with these samples. All percent recoveries were acceptable with the exception of dichlorodifluoromethane (130%R; data validation criteria 70-130%). Qualification of sample results was not warranted since the %R was biased high and this analyte was not detected in any of the samples in this data set.

VII. Field Duplicate

Sample LR-8 was collected as a blind field duplicate of Sample X-1. RPDs between paired results were acceptable.

VIII. Internal Standard Performance

All internal standard (IS) areas and retention times were within quality control limits for the applicable analyses.



IX. Target Compound Identification

Target analytes were detected in six of these samples and an acceptable mass spectrum was provided for most of the compounds detected. 1,2-Dichloroethane in LCW-4 was qualified as not detected (U) at the analyte-specific reporting limit due to a poor spectral match. Results for trichloroethene in LCW-4 and LCW-2 and total xylenes in LCW-4 were qualified as presumptively present (N) because, although the raw spectra support the identification for these compounds in the samples, the subtracted spectra do not. (See XIII. Documentation)

Analyte-specific reporting limits are equal to at least the lowest standard in the calibration range, in most cases higher than the lowest standard, and are well supported by the IC.

X. Compound Quantitation and Reporting Limits

Target compound concentrations and RLs were correctly calculated and accurately reported for all samples and spike samples.

The Data Summary Forms in Attachment A list all individual sample analytes. Where no result is listed, the compound was not detected and the RL was not qualified. Sample-specific RLs may be calculated from the information on the data summary form by multiplying the quantitation limit (far left column) by the dilution factor.

XI. Tentatively Identified Compounds (TIC)

Tentative identification of non-target compounds was not a requirement of this analytical program.

XII. System Performance

The analytical system appears to have been working satisfactorily at the time of these analyses, based on evaluation of the available raw data.

XIII. Documentation

The chain-of-custody record was present and accurately completed for the samples reported in this data package.

The following documentation issues were observed during the validation of these data:

- The sample identifications on the COC did not include the sample date. The laboratory appended the sample dates to the field identifications to facilitate database requirements. The sample identifications provided on the COC have been used throughout this report.
- Although the raw spectra support the identification of trichloroethene in LCW-4 and LCW-2 and total xylenes in LCW-4, the subtracted spectra do not.

While these documentation issues do not affect the usability of the data, they could be problematic if the data were used in litigation.

XIV. Overall Assessment

Based on the validation effort, the following qualifiers were applied:

- The result for methylene chloride in LCW-2 was qualified as not detected (U) at the analyte-specific reporting limit due to associated blank contamination.
- Results for acetone in M-21, LR-8, OD-3, X-1, LR-6, LCW-2, and LCW-4 were qualified estimated (J-, UJ) and may be biased low due to MS/MSD recoveries.
- 1,2-Dichloroethane in LCW-4 was qualified as not detected (U) at the analyte-specific reporting limit due to a poor spectral match.
- Results for total trichloroethene in LCW-4 and LCW-2 and xylenes in LCW-4 were qualified as presumptively present (N) because, although the raw spectrum was acceptable, the subtracted spectra does not support the identification.

All other results are valid as reported.

Documentation issues observed in the data package are described in Section XIII.

This validation report should be considered <u>part of the data package</u> for all future distributions of the volatiles data.

ATTACHMENT A

DATA SUMMARY FORMS Laboratory Job No. K1705024 Volatiles in Water

DATA SUMMARY FORM: VOLATILES SEMI-ANNUAL WELL SAMPLES (ug/L)

Site Name: PAS Oswego

Sampling Date: May 1-2, 2017

Laboratory Job No. K1705024

ddms Project No. 1547-3131

Sample Location	Equipment Blank		M-21		OD-3		LR-8		LCW-4		LCW-2		X-1	
Lab Sample ID	K1705024-001		K1705024-002		K1705024-003		K1705024-004		K1705024-005		K1705024-006		K1705024-007	
Dilution Factor	1.0		1.0		1.0		1.0		20		5.0		1,0	
							·····							
RL	·	_												ΓÏ
1.00 Dichlorodifluoromethatie				-				_						\square
1.00 Chloromethane		•••							64.8		19.7			\vdash
												_		
			2.40				3.83		46.0		6.70		4.66	<u> </u>
1.00 Chioroethane			2.40				0,00		1010					\square
1,00 Inchloronuoromethane														\square
0.50 1.1.2 Trickland 1.2.2 millionsethano	· · · · · · · · · · · · · · · · · · ·													
0.50 1,1,2-1 Herioro-1,2,2-trimuoroeulane	L		1 22	Ĭ-		ш		UJ		UJ	0.55	J.	1.45	J-
10,0 Acetone								0.						
0.50 Carbon Disulide														
2.00 Methylana Chlarida	0.26	Ť				<u> </u>			3.80	J		U	-	
2.00 predivience chieffice	0,20													
0.50 juans-1,2-Dichloroeulene									_					\square
1.00 MIBE									30.6		16.0			
0.50 ris 1.2 Dichloroothane				-					165		31,8			
10.0 2 Buttagene														
											1.15	J		
											5.55			
0.50 1,1,1-Trichloroethane			7.20			- · · ·	1.87		3 20	Ĩ	0.75	ľ	2.24	
0.50 Cyclohexane			2,30				1.07							
0.50 Carbon Tetrachloride	· ····································		0.27				0.33	т	302		206		0.57	
0.50 1.2 Disklarasthere			0,27	³			0.55	,		U				\square
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0.50 1.2 Disblaragraphia														
0.50 Permadiableremethane														
0.50 Biomodicinoromenane	· · · · · · · · · · · · · · · · · · ·								· ·					
5 0014 Method 2 pentanene								-						
0.50 Teluene			0.26	l I			0.18	J	68.4		0.70	J	0.24	J
0.50 trans 1.3 Disbleropropens	<u> </u>													
0.50 1 1 2-Trichioroethane						1					1.05	J		
0.50 Tetrachloroethene				, —			-				20.4			
5 00 2-Hevanore														
0.50 Dibromochloromethane	·													
0.50 1.2-Dibromoethane														
0.50 Chlorobenzene	1		7.47				8.48		254		53,1		10.5	<u>، ا</u>
0 50 Ethylbenzene									346		7.65			
1 00 Xylenes (total)	·					1			260	N	3.95	J		
0 50 Styrene		<u> </u>		1									l	<u> </u>
1.00 Bromoform			1	<u> </u>		1_								
0.50 Isopropy/benzene	<u> </u>		0.71			1	0.48	J	3,80	J	4.30		0,61	
0.50 1.1.2.2-Tetrachloroethane		<u> </u>									4.15		·	
0.50 1.3-Dichlorobenzene			İ											
0 50 1 4-Dichlorobenzene			0.45	I		<u> </u>	0.48	J	4.40	J			0.57	
0 50 1 2-Dichlorobenzene			0.62			<u> </u>	0.28	J	40.2		3.95		0.38	J
5.00 1.2-Dibromo-3-chloropropane			0.02	i —										
1 00 1 2 4-Trichlorobenzene														
								_						
DATA SUMMARY FORM: VOLATILES SEMI-ANNUAL WELL SAMPLES (ug/L)

Site Name: PAS Oswego

Laboratory Job No. K1705024

Sampling Date: November 7-8, 2015

ddms Project No. 1547-3131

	Sample Location	QC Trip Blank								1				l	
	Lab Sample ID	K1705024-008	1	[1				<u> </u>	
	Dilution Factor	1.0		<u> </u>										l	
RI								l		1	1			l	
1.00	Dichlorodifluoromethane		-	· · · · · · · · · · · · · · · · · · ·	-	I									
1.00	Chloromethane														
1.00	Vinyl Chloride			<u> </u>											
1.00	Bromomethane		_	I											
1.00	Chloroethane														
1.00	Trichlorofluoromethane													·	
0.50	1,1-Dichloroethene													L]	
0.50	1,1,2-Trichloro-1,2,2-trifluoroethane													i	ļ
10.0	Acetone													L	
0.50	Carbon Disulfide													۱ <u> </u>	
5.00	Methyl Acetate								<u> </u>					l	
2.00	Methylene Chloride														\square
0.50	trans-1,2-Dichloroethene													ļ ļ	ļ
1.00	MTBE							Į	Ī					l	
0,50	1,1-Dichloroethane		آت				Ē	<u> </u>				L		ļi	
0.50	cis-1,2-Dichloroethene													ļ	
10.0	2-Butanone											1		ļ	┝──┤
0.50	Chloroform									l		<u> </u>		ļ	
0.50	1,1,1-Trichloroethane									l		۱ <u> </u>	<u> </u>	ļ	\vdash
0.50	Cyclohexane											۱ <u> </u>	<u> </u>	ļļ	\square
0.50	Carbon Tetrachloride												<u> </u>		\square
0.50	Benzene									ļ		ļi	<u>ا</u>	ļ	
0.50	1,2-Dichloroethane		آسا					ļ	└	└─── ─		ļ	۱		┞─┤
0,50	Trichloroethene			L					ļ	L	ا للہ	<u>└</u> i	۱ <u> </u>	├	
0.50	Methylcyclohexane		آ]	ļ]					ļ	ļi	ļ	└────	۴	├ ────	
0.50	1,2-Dichloropropane			ļļ			'	ا ــــــــــــــــــــــــــــــــــــ	┡——	ŀi	μ	├ ─────	μ		┣──┥
0,50	Bromodichloromethane			ļļ			Ļ		┞	ļ i	└──┥	ļ	μ	<u>↓ </u>	├ ──
0.50	cis-1,3-Dichloropropene				<u> </u>		Ļ		 ;	ļ	└ <u></u>	↓	└──		
5.00	4-Methyl-2-pentanone						<u> </u>	<u> </u>	ļ		Ļ		μ		
0.50	Toluene		<u> </u>				<u> </u>	l	<u> </u>				μ	 	
0.50	trans-1,3-Dichloropropene	ļ	 	ļ		·	┣—		<u> </u>		 	↓ ·	┞	ł	+
0.50	1,1,2-Trichloroethane	ļ	<u> </u>		i	ļ	 		 	↓ ·	 	 	-	<u>}</u>	┼──
0.50	Tetrachloroethene	l	 		 		┡	<u> </u>					├ ─	t	┢──┤
5.00	2-Hexanone	l		↓				<u> </u>	├	l	 	 		 	<u>+</u>
0.50	Dibromochloromethane	ļ	 	 		ł	_	+	┞──	 	├	 -	<u> </u>	<u> </u> +,	
0.50	1,2-Dibromoethane		_	l	┞──		┣	 	─-		├	<u>}</u>	┣──	 	\vdash
0.50	Chlorobenzene		 	<u> </u>	 			+			├──	ł	├	 	\vdash
0.50	Ethylbenzene		<u> </u>	ł	<u> </u>	 	┣	 			 	<u> ·</u>	├	 	<u> </u>
1.00	Xylenes (total)		 	 	┞		┣—-	├── ─	 	<u> </u>	+	<u>├───</u>	┣—	<u> </u>	\vdash
0.50	Styrene	<u> </u>	—	├ ───	├		┣		├	 `	–	<u> </u>	┝	 	<u>+</u>
1.00	Bromoform	ļ	┣—	ļ — i	 		┞—	t	 	 	 	[1	
0.50	Isopropylbenzene	 	<u> </u>	<u> </u>	 	ļ	<u> </u>	·		 		l	├	 	+
0.50	1,1,2,2-Tetrachloroethane			i			<u> </u>	ļ	┣—		┝──	ļ	┝──	 	<u> </u>
0.50	1,3-Dichlorobenzene	ļi		L			<u> </u>	Į;			 	ļ		l	┣—
0.50	1,4-Dichlorobenzene			ļi			<u> </u>	ļi	ļ		L	ļ			
0.50	1,2-Dichlorobenzene					l	_		┡		<u> </u>		<u> </u>	l	
5.00	1,2-Dibromo-3-chloropropane		\vdash	ļ		ļ	_		┡—	ļ	 		<u> </u>		
1.00	1,2,4-Trichlorobenzene						L	L	L			L			L

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ATTACHMENT B

ORGANIC ANALYSIS REPORT SHEETS Laboratory Job No. K1705024 Volatiles in Water

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יז זידאידי	O'Brie	n & Gere Oper	ations. LLC			Lab ID:		K1	705024-()01A		
Project:	PASC)swego-Semi-A	Innual Well S	ampl	ing ·	Client San	aple ID:	Eq	uipment	Blank 05/01/1		
V Ondon	V1704	024		Sample Size: 10 mL			Date:	05/01/17 13:20				
W Order:	N1/V-	5024 50 A					Date Received:			05/02/17 15:35		
	MON	76 DIN Q	Sample S									
nst, 1D:	Dty V	70 MS	%Moist	ire:		BatchNo:		R31	1061			
Columnity:	- KLX= V - 05/15/	(17 15.37	TestCod	e:	8260W OLM42	FileID:		1 - S	AMP-n56	03.D		
Col Tunes	U J/15/	17 15.52	100000							_		
Cor Type.						MDL	Un	its	DF	Date Analyzed		
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VOLATILE	DRGAN	IIC COMPOUN	IDS BY GC/N	ns		o (o	51	/0201 I	1	05/03/17 11:26		
Dichlorodifiuo	rometha	ine		ND	1.00	0.10	µg/	L 1	1	05/03/17 11:26		
Chloromethar	ne			ND	1.00	0.33	ከብላ	ь ,	1 5	05/03/17 11:26		
Vinyl chloride				ND	1.00	0.33	hði Na	ե 1	1	05/03/17 11:26		
Bromomethar	ne			ND	1.00	0.33	μg/	1. 1	1	05/03/17 11:26		
Chloroethane	:			ND	1.00	0.33	µg/	₽ 14	1	05/03/17 11:26		
Trichlorofluor	omethar	1e		ND	1.00	0,10	µ9/	с. (1	1	05/03/17 11:26		
1,1-Dichloroe	thene			ND	0.50	0.10	μy	и. Л	1 1	05/03/17 11:26		
1,1,2-Trichlor frifluoroethan	o-1,2,2- e			ND	0.50	0.10	μ9 [,]			05/03/17 11-26		
Acetone				ND	10.0	1.00	μg	/L	1	05/03/17 11:20		
Carbon disulf	fide			ND	0.50	0.11	μg	/L	1	05/03/17 11:20		
Methyl acetai	te			ND	5.00	1,00	μg	/L	1	05/05/17 11:20		
Methylene ch	loride			0.26 J	2.00	0.16	μg	/L	1	05/03/17 11:20		
trans-1.2-Dic	hloroeth	ene		ND	0.50	0.10	μg	/L	1	05/03/17 11:20		
Methyl tert-bi	utyl ethe	ar -		ND	1.00	0.16	μg	/l	1	05/03/17 11:26		
1.1-Dichloroe	ethane			ND	0.50	0.10	μg	hr Nr	1	05/03/17 11:20		
cis-1,2-Dichl	oroether	າຍ		ND	0.50	0.10	μg	/L 	1	05/03/17 11:26		
2-Butanone				ND	10.0	1.00	μο	μ∟ 	1	05/03/17 11:26		
Chloroform				ND	0.50	0.10	μg	∦L _/\	1	05/03/17 11:20		
1,1,1-Trichlo	roethan	9		ND	0.50	0.10	μg	уь. . л	1	05/03/17 11:26		
Cyclohexane				ND	0.50	0.10	μι	уL 	1	05/03/17 11:26		
Carbon tetra	chloride	+ -		ND	0.50	0.10	μg]/L _4	1	05/03/17 11:26		
Benzene				ND	0.50	0.10	μ <u>ε</u>	J/L ⊒/I	1	05/03/17 11:26		
1,2-Dichloro	ethane			ND	0.50	0.16	μ	3/L ~/1	1	05/03/17 11:26		
Trichloroeth	ene			ND	0,50	0.10	hi	9/L =/	1	05/03/17 11:26		
Methylcyclo	hexane			ND	0.50	0.10	μ	yrı ~/)	1	05/03/17 11:26		
1,2-Dichloro	propane)		ND	0.50	0.16	<u>ц</u>	g/∟ ~/!	1	05/03/17 11:26		
Bromodichic	prometh	ane		ND	0.50	0.10	μ	g/∟ a/l	1	05/03/17 11:26		
cis-1,3-Dich	loroprop	ene		ND	0.50	0.16	ч	g/L all	1	05/03/17 11:26		
4-Methyl-2-	pentano	ne		ND	5.00	1.00	μ ·	g/L A/l	י 1	05/03/17 11:26		
Toluene				ND	0.50	0.10	μ	g/L m/l	1	05/03/17 11:26		
trans-1,3-Di	ichloropi	ropene		ND	0.50	0.16	4	igre m/l	1	05/03/17 11:26		
1,1,2-Trichle	oroethar	1e		ND	0.50	0.10	۲ ۱	1971 - 1971-	, 1	05/03/17 11:26		
Tetrachioro	ethene			ND	0.50	1.10	۲ ۱	ישי⊏ ות\!	1	05/03/17 11:26		
2-Hexanone	9			ND	5.00	1. vu	+ 		·	() Call at Diant		
Ouelifiare	*	Value may exce	ed the Acceptabl	e Leve	1	B Ana	lyte detect	ed in t	the associate	a Memod Blank		
Vuanners:	E	Value exceeds t	he instrument ca	libratio	n range	II - FORTING LITTLES TO Proparation of Analysis account				antitation Limit (POL)		
	J	Analyte detected	d below the PQL			ND Not	Detected a		e raccenter side accenter	recovery limits		
	Р	Prim./Conf. col	umn %D or RPD	excee	ds limit	S Spil	ke kecover	y outs				
Drint Dat	te. 05/3	1/17 7:54	826096	P	roject Superviso	r: David J	Prichard					

Analytical Results

Project Supervisor: David J Prichard

Analytical Results

LOL 58 E	354 Butternut Driv ast Syracuse, NY	e 13057 (315)	445-1900		State	CertNo:	10248
CLIENT: Project: W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	O'Brien & Gere Op PAS Oswego-Semi K1705024 WATER Q MSN 76 Rtx-VMS 05/15/17 15:32	Sample Size: %Moisture: TestCode:	oling 10 mL 8260W OLM4	Lab ID: Client Samp Collection I Date Receiv PrepDate: BatchNo: 2 FileID:	K17 ole ID: Eq Date: 05/0 ed: 05/0 R31 1-S/	7 05024- uipmen 01/17 13: 02/17 15: 061 AMP-n50	001A at Blank 05/01/1 20 35 603.D
Analyte		Result (Jual PQL	MDL	Units	DF	Date Analyzed
VOLATILE (Dibromochlord 1,2-Dibromoe Chlorobenzen Ethylbenzene Xylenes (total Styrene Bromoform isopropylbenz 1,1,2,2-Tetrac 1,3-Dichlorob	DRGANIC COMPO omethane thane le chorosthane senzene senzene	UNDS BY GC/MS ND ND ND ND ND ND ND ND ND ND ND ND ND	0.50 0.50 0.50 1.00 0.50 1.00 0.50 0.50	0.10 0.16 0.10 0.30 0.10 0.33 0.10 0.10 0.10 0.10	5W8260 μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26 05/03/17.11:26
1,4-Dichlorod 1,2-Dichlorod 1,2-Dibromo- 1,2,4-Trichlor Surr: 1,2-E Surr: 1,2-E Surr: 1-Bru	enzene oenzene 3-chloropropane robenzene Dichloroethane-d4 ene-d8 omofluorobenzene	ND ND ND 98 103 102	0.50 5.00 1.00 75-130 75-125 75-125	0.10 1.00 0.10 0.16 0.10 0.10	µg/L µg/L µg/L %REC %REC %REC	1 1 1 1 1	05/03/17 11:26 05/03/17 11:26 05/03/17 11:26 05/03/17 11:26 05/03/17 11:26 05/03/17 11:26

Polley 5. Neverbold

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

Print Date: 05/31/17 7:54 826096 Project Supervisor: David J Prichard

Analytical Results

	ast Syracuse, NY	13057 (315) 44	5-1900		State	CertNo:	10248
TI TENT-	O'Brien & Gere Ot	nerations, LLC		Lab ID:	K1	705024-0	002A
Project:	PAS Oswego-Sem	i-Annual Well Samplin	g	Client Samp	le ID: M-	21 05/0.	1/17
VOudan	V1705004	-	-	Collection D	ate: 05/	01/17 14:0	05
v Order:	MI/UJU24			Date Receive	ed: 05/	02/17 15:	35
viatrix:	WALDA MON 76	Somple Size: 10	mľ	PrenDate:			
nst. D: TalumnTh	Dev VMS	Moisture:	IIID	BatchNo:	R3 1	1061	
	05/00/17 0-18	TestCode: 82	60W OLM	42 FileD:	1-S	AMP-n56	i04.D
Col Tunor	03/03/17 9.10	restebuti of					
Col Type:							
Analyte		Result Qua	l PQL	MDL	Units	DF	Date Analyzeo
VOLATILE	ORGANIC COMPO	UNDS BY GC/MS			SW826	0C/5030C	
Dichlorodifluo	romethane	ND	1.00	0.10	μg/ L	1	05/03/17 11:57
Chloromethar	ne	ND	1.00	0.33	µg/L	1	05/03/17 11:57
Vinyi chloride		ND	1.00	0.33	hâ\r	1	
Bromomethar	ne	ND	1.00	0.33	µg/L	1	05/03/17 11:57
Chloroethane	•	2.40	1.00	0.33	μg/L	1	05/03/17 11:57
Trichlorofluor	omethane	ND	1.00	0.10	μg/L	1	05/03/17 11:57
1.1-Dichloroe	thene	ND	0.50	0.16	µg/L	1	05/03/17 11:57
1,1,2-Trichlor	0-1,2,2-	ND	0.50	0.10	µg/Ł	1	05/03/17 11:57
trifluoroethan	e	4 00 1	40.0	1.00	uo/l	1	05/03/17 11:57
Acetone		1.22 J -	10.0	1.00	µg/⊨ µa/l	1	05/03/17 11:57
Carbon disulf	lide	ND	0.50	1.00	unll		05/03/17 11:57
Methyl acetal	te	NU	5.00	0.16	ua/l	1	05/03/17 11:57
Methylene ch	lloride	ND	2.00	0.10	ug/i	1	05/03/17 11:57
trans-1,2-Dic	hloroethene	ND	0.50	0.10	pg/L na/l	1	05/03/17 11:57
Methyl tert-bu	utyl ether	ND	1.00	0.10	100/l	•	05/03/17 11:57
1,1-Dichloroe	ethane	ND	0.50	0.10	µg/L uo/l	1	05/03/17 11:57
cis-1,2-Dichle	oroethene	ND	0.50	0,10	µgr⊏ ug/i	1	05/03/17 11:57
2-Butanone		ND	10.0	1.00	µg/⊏ ug/l	1	05/03/17 11:57
Chloroform		ND	0.50	0.10	µg/L	1	05/03/17 11:57
1,1,1-Trichio	roethane	ND	0.50	0.10	µy/⊏ ua/l	1	05/03/17 11:57
Cyclohexane	5	2.30	0.50	0.10	µy/⊑	1	05/03/17 11:57
Carbon tetra	chloride	ND	0.50	0.10	µg/t.	1	05/03/17 11:57
Benzene		0.27 J	0.50	0.10	pg/c	1	05/03/17 11:57
1,2-Dichloro	ethane	ND	0.50	0,16	µg/c ua/l	1	05/03/17 11:57
Trichlorcethe	ene	ND	0.50	0.10	µyr∟ uari	י ז	05/03/17 11:57
Methylcyclof	hexane	0.24 J	0.50	0,10	µgn_	1	05/03/17 11:57
1,2-Dichloro	propane	ND	0.50	0.16	មួច/រ	1	05/03/17 11:57
Bromodichic	promethane	ND	0.50	0.10	µg/⊾	1	05/03/17 11:57
cis-1,3-Dichl	loropropene	ND	0.50	0.16	ug/L	1	05/03/17 11:57
4-Methyl-2-p	pentanone	ND	5.00	1.00	hâvr 	4	05/03/17 11:07
Toluene		0.26 J	0.50	0.10	µg/L	1	05/03/17 11:57
trans-1,3-Di	chloropropene	ND	0.50	0.16	µg/L	। न	05/03/17 11:57
1,1,2-Trichle	proethane	ND	0.50	0.16	µg/∟	1	05/03/17 11:57
Tetrachloroe	ethene	ND	0.50	0.10	µg/L	1	05/03/17 11:57
2-Hexanone	•	ND	5.00	1.00	µg/∟	1	05/05/17 11.57
	* Value may ev	ceed the Acceptable Level	·	B Analyte	detected in t	he associated	d Method Blank
Qualifiers:	E Value exceed	s the instrument calibration r	ange	H Holding	times for pro	eparation or	analysis exceeded
	J Analyte detec	ted below the PQL	-	ND Not Del	ected at the I	Practical Qua	antitation Limit (PQL)
	P Prim /Conf. c	olumn %D or RPD exceeds	imit	S Spike R	ecovery outs	ide accepted	l recovery limits
	00/21/15/0-54	004007 B	oot Sunomi	sor David I Pri	chard		
Print Dat	e: v5/31/17 7:54	020071 ETU	leve paherai	SOLL APATIME ALL			

Analytical Results

E	ast Syracuse, NY 1305	7 (315)	445-1900	5	StateCertNo: 10248
CLIENT: Project:	O'Brien & Gere Operati PAS Oswego-Semi-Ann	ons, LLC ual Well Samp	oling	Lab ID: Client Sample ID:	K1705024-002A M-21 05/01/17
W Order: Matrix:	K1705024 WATER			Collection Date: Date Received:	05/01/17 14:05 05/02/17 15:35
Inst. ID: ColumnID: Revision:	MSN 76 Rtx-VMS 05/09/17 9:18	Sample Size: %Moisture: TestCode:	10 mL 8260W OLM42	PrepDate: BatchNo: FileID:	R31061 1-SAMP-n5604.D
Col Type:					

Analyte	Result Qua	l PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUND	S BY GC/MS			SW8260)C/5030C	:
Dibromochloromethane	ND	0,50	0.10	μg/L	1	05/03/17 11:57
1.2 Dibromoethane	ND	0.50	0.16	µg/L	1	05/03/17 11:57
1,2-Dibiomoentane	7 47	0.50	0.10	μg/L	1 -	05/03/17 11:57
	ND	0.50	0.10	ug/L	1	05/03/17 11:57
Emyloenzene	ND	1 00	0.30	ua/L	1	05/03/17 11:57
Xylenes (total)	ND	0.50	0.10	ua/L	1	05/03/17 11:57
Styrene		1.00	0.33	uo/L	1	05/03/17 11:57
Bromotorm	0.74	0.60	0.00	u u /]_	1	05/03/17 11:57
Isopropylbenzene	U.71	0.50	0.10	ua/t	1	05/03/17 11:57
1,1,2,2-Tetrachioroethane	ND	0.50	0.10	ug/1	1	05/03/17 11:57
1,3-Dichlorobenzene	ND	0.50	0.10	µgr⊏ vo/l	1	05/03/17 11.57
1,4-Dichlorobenzene	0.45 J	0.50	U,16	µg/L	4	05/03/17 11:57
1,2-Dichlorobenzene	0.62	0.50	0.10	hâr	1	05/05/17 11.57
1.2-Dibromo-3-chloropropane	ND	5.00	1,00	µg/L	1	05/03/17 11:57
1 2 4-Trichlorobenzene	ND	1.00	0.10	μg/L	1	05/03/17 11:57
Surr 1 2-Dichloroethane-d4	94	75-130	0.16	%REC	1	05/03/17 11:57
Surr: Toluene-d8	101	75-125	0.10	%REC	1	05/03/17 11:57
Surr: 4-Bromofluorobenzene	102	75-125	0.10	%REC	1	05/03/17 11:57



	*	Value may exceed the Acceptable Level	В	Analyte detected in the associated Method Blank
Qualifiers:	E	Value exceeds the instrument calibration range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits
				17011

Project Supervisor: David J Prichard Print Date: 05/31/17 7:54 826097

Analytical Results

154			E1705014 8024				
CLIENT: Project:	O'Brien & Gere Ope PAS Oswego-Semi-	rations, LLC Annual Well Samplin	g	Lab II Client	D: r Sample ID: (DD-3 05/0	003A 02/17
N Order	K1705024	•	-	Collec	tion Date: 0	5/02/17 8:3	30
Astrix.	WATER			Date I	Received: 0	5/02/17 15	:35
net ID.	MSN 76	Sample Size: 10	mL	PrepL	Date:		
Juma Dr.	Rtx-VMS	%Moisture:		Batch	No: R	31061	
Revision:	05/09/17 9:18	TestCode: 82	60W OLM42	FileII): 1	-SAMP-n5	605.D
Col Type:	00/07/17 5120						
Analyte		Result Oua	l POL	MD	L Units	DF	Date Analyze
			· ·	_	SW82	60C/5030C	······································
			1.00	0.10	ua/L	1	05/03/17 12:28
Jichiorodifiuol	romethane	ND	1.00	0.10	µg/C 110/1	1	05/03/17 12:28
Inforomethan	16		1.00	0.33	ua/L	1	05/03/17 12:28
/inyi chionde		ND	1.00	0.33	ug/L	1	05/03/17 12:28
stomometnar	1¢		1.00	0.33	na\} 53. F	1	05/03/17 12:28
			1.00	0.00	µg/= ⊔a/l	1	05/03/17 12:28
Inchiorofluoro	ometnane	NU	0.60	0.10 n.18	1975 1971	, 1	05/03/17 12:28
I, T-Dichloroel			0.00	0.10	р <u>9</u> , с 1/1	1	05/03/17 12:28
1,1,2-1 richiori Irifluoroethani	0-1,Z,Z-	NU	0.00	0.10	P9/	•	
Acetone	9	ND UJ	1 0.0	1.00	µg/L	1	05/03/17 12:28
Carbon disulf	ide	ND	0.50	0.11	μg/L	1	05/03/17 12:28
Methyl acetat	e	ND	5,00	1.00	μg/L	1	05/03/17 12:28
Methylene ch	loride	ND	2.00	0.16	µg/L	1	05/03/17 12:28
rans-1 2-Dict	hloroetbene	ND	0.50	0.10	µg/L	1	05/03/17 12:28
Methyl tert.h	ityl ether	ND	1.00	0.16	µg/L	1	05/03/17 12:28
1 1_Dichloroe	ihane	ND	0.50	0.10	μg/L	1	05/03/17 12:28
rie 1 2 Dichlo	voethene	ND	0.50	0,10	µg/L	1	05/03/17 12:28
2-Rutenone	A COLICINO	ND	10.0	1.00	μg/L	1	05/03/17 12:28
Chloroform		ND	0.50	0.10	μg/L	1	05/03/17 12:28
4 1 1. Trichlor	roothane	ND	0.50	0,10	μg/L	1	05/03/17 12:28
Cuclobevene	octitatio	ND	0.50	0.10	µg/L	1	05/03/17 12:28
Carbon tetrar	chiorida	ND	0.50	0.10	µg/L	1	05/03/17 12:28
Carbon tenat	GINONGO	ND	0.50	0.10	μg/L	1	05/03/17 12:28
1.2 Dichloroc	thana	ND	0.50	0.16	μg/L	1	05/03/17 12:28
T,2-D/Unit/roc		ND	0.50	0.10	µg/L	1	05/03/17 12:28
Methylovelob		ND	0.50	0.10) ug/L	1	05/03/17 12:28
4 3 Dichloror		ND	0.50	0.16	ις μα/L	1	05/03/17 12:28
Deemodichio	romothene	ND	0.50	0.10) ua/L	1	05/03/17 12:28
ate 1.2 Diebl			0.50	0.16	s ua/L	1	05/03/17 12:28
CIS-1,0-L/ICIN	onopropene		5.00	1 00) ua/L	1	05/03/17 12:28
4-ivietnyi-z-p	entanone	ND	0.00	0.10) ца/L	1	05/03/17 12:28
toluene	blorontopopo		0.50	0.16		1	05/03/17 12:28
uans-1,3-Uid	reathance		0.50	0.10 0.16	- rə/- 5 uo/l	1	05/03/17 12:28
1,1,2-1 ficfilo	roemane		0.50	0.10) ua/L	1	05/03/17 12:28
I etrachioroe	Alleue		4.00 5.00	1 00	עמין 1. 1. עמיע	1	05/03/17 12:28
2-riexanone		NU	J.JU				1) (all a Diant
Qualifiers:	 Value may excee 	d the Acceptable Level		B	Analyte detected in	the associate	a Meruod Blank
	E Value exceeds the	e instrument calibration ra	inge	H	Holding times for j	Departation OF	anarysis executed
	J Analyte detected	below the PQL	•.	ND	Not Detected at the	rracucal Qua	annanon cann (rQL) Frecovery limite
	P Prim./Conf. colu	mn %D or RPD exceeds li	mit		Spike Recovery ou	isiue accepted	

LSL 58 Ea	854 Butternut Drive ast Syracuse,NY 13	3057 (315)	445-1900		State	CertNo:	10248
CLIENT: Project: W Order: Matrix: Inst. ID: ColumnID: Revision: Col Type:	O'Brien & Gere Ope PAS Oswego-Semi- K1705024 WATER MSN 76 Rtx-VMS 05/09/17 9:18	rations, LLC Annual Well Samp Sample Size: %Moisture: TestCode:	ling 10 mL 8260W OLM42	Lab ID: Client Samj Collection I Date Receiv PrepDate: BatchNo: 2 FileID:	K1 ole ID: OL Date: 05/4 red: 05/4 R31 1-S.	7 05024- <i>a.3 05/0</i> 02/17 8:3 02/17 15: 061 AMP-n56	003A 12/17 0 35 505.D
Analyte		Result (ual PQL	MDL	Units	DF	Date Analyzed
		NDS BY GC/MS			SW8260	C/5030C	;
		ND ND	0.50	0.10	µg/L	1	05/03/17 12:28
1 2 Dibtomoci	thore	ND	0.50	0.16	µg/L	1	05/03/17 12:28
1,2-Dipromoe		ND	0.50	0.10	μg/L	1	05/03/17 12:28
Chlorobenzen	le	ND	0.50	0.10	μg/L	1	05/03/17 12:28
Ethylbenzene	N	ND	1.00	0.30	µg/L	1	05/03/17 12:28
Xylenes (total)		0.50	0.10	ug/L	1	05/03/17 12:28
Styrene			1.00	0.33	ug/L	1	05/03/17 12:28
Bromotorm	_	ND	0.50	0.10	ua/L	1	05/03/17 12:28
Isopropyidenz	tene		0.00	0.10	ua/L	1	05/03/17 12:28
1,1,2,2-1etra	chioroethane		0.50	0.10	ua/L	1	05/03/17 12:28
1,3-Dichlorob	enzene	עא סא	0.50	0.16	ua/L	1	05/03/17 12:28
1,4-Dichlorob	enzene		0.50	0.10	ua/L	1	05/03/17 12:28
1,2-Dichlorob	enzene	ND	0.00	0.10	₽ 5 /− υσ/Ι	1	05/03/17 12:28
1,2-Dibromo-	3-chloropropane	ND	5.00	1.00	pg/c uo/i	1	05/03/17 12:28
1,2,4-Trichlor	obenzene	ND	1.00	0.10	%REC	1	05/03/17 12:28
Surr: 1,2-D	ichloroethane-d4	98	75-130	0.10	WREC	1	05/03/17 12:28
Surr: Tolue	ene-d8	102	/5-125	0.10		1	05/03/17 12:28
Surr: 4-Bro	omofluorobenzene	101	75-125	0.10	MALO	•	20,00.11 12.20



Analytical Results



				·
	*	Volus more avaged the Accentable I evel	В	Analyte detected in the associated Method Blank
Qualifiers:	r re	Value may exceed the instrument calibration range	н	Holding times for preparation or analysis exceeded
	л т	A relate detected below the POI	ND	Not Detected at the Practical Quantitation Limit (PQL)
	1	Analyte deleted below in a QD	S	Snike Recovery outside accepted recovery limits
	P	Prim. Cont. column 700 of KrD exceeds mint		

Print Date: 05/31/17 7:54 826098 Project Supervisor: David J Prichard

•	Amary incar incourts					
	State	CertNo:	10248			
Lab ID: Client Samp Collection D Date Receive PrepDate: BatchNo:	K1 le ID: LR ate: 05/ ed: 05/ R3:	K1705024-004A D: LR-8 05/02/17 : 05/02/17 10:00 05/02/17 15:35 R31061				
2 Flieid:	1-0	-1150 -1150	00.2			
MDL.	Units	DF	Date Analyzed			
	SW826	00/50300				
0.40	ມດ/i	1	05/03/17 12:59			
0.10	µgr⊏ ug/l	, 1	05/03/17 12:59			
0.33	րջու ողք	, 1	05/03/17 12:59			
0.33	µg/L	1	05/03/17 12:59			
0.33	ມູນ ມູນ	1	05/03/17 12:59			
0.33	µg/⊑ ua/t	1	05/03/17 12:59			
0.10	µg/L.	1	05/03/17 12:59			
0.16	μg/c va/i	1	05/03/17 12:59			
0.10	μg/L	L				
1.00	µg/L	1	05/03/17 12:59			
0.11	υα/L	1	05/03/17 12:59			
1.00	ua/L	1	05/03/17 12:59			
0.16	uo/1_	1	05/03/17 12:59			
0.10	ua/L	1	05/03/17 12:59			
0.10	P9/⊏ µo/l	1	05/03/17 12:59			
0.10	P9/-	1	05/03/17 12:59			
0.10	ug/l	1	05/03/17 12:59			
0.10	µgr⊏ uo/l	•	05/03/17 12:59			
1.00	µy/L	4	05/03/17 12:59			
0.10	µg/L	1	05/03/17 12:59			
0,10	µg/∟	1	05/03/17 12:50			
0.10	µg/L	۱ م	05/03/17 12:50			
0.10	µg/L	1	05/03/17 12:59			
0.10	hâur "	i 4	05/03/17 12:53			
0.16	µg/L	1	05/03/17 12:55			
0.10	µg/L	1	05/03/17 12:53			
0.10	μg/L	1	05/03/17 12:33			
0.16	µg/L	1	05/03/17 12.55			
0.10	μ g/L	1	05/03/11 12.58			
0.16	µg/L	1	05/03/17 12:55			
1.00	µg/L	1	05/03/17 12:55			
0.10	hâ\r	1	03/03/17 12:35			
0.16	µg/L	1	05/03/17 12:00			
0.16	µg/L	1	05/03/17/12:55			
0.10	µg/L	1	05/03/17 12:5			
1.00	µg/L	1	05/03/17 12:5			
B Analyt	e detected in	the associate	d Method Blank			
H Holdin	g times for p	reparation or	analysis exceeded			
ND Not Detected at the Practical Quantitation Limit (PQL)						
S Spike	Recovery out	side accepted	i recovery limits			
1	H Holdin ND Not De S Spike J isor: David J Pr	H Holding times for p ND Not Detected at the S Spike Recovery out	Holding times for preparation or ND Not Detected at the Practical Qu S Spike Recovery outside accepted isor: David J Prichard			

Print Date: 05/31/17 7:54

Analytical Results Life Science Laboratories, Inc. 5854 Butternut Drive StateCertNo: 10248 (315) 445-1900 East Syracuse, NY 13057 K1705024-004A Lab ID: O'Brien & Gere Operations, LLC CLIENT: Client Sample ID: LR-8 05/02/17 PAS Oswego-Semi-Annual Well Sampling Project: 05/02/17 10:00 **Collection Date:** W Order: K1705024 05/02/17 15:35 Date Received: WATER Matrix: **PrepDate:** Sample Size: 10 mL **MSN 76** Inst. ID: R31061 BatchNo: ColumnID: Rtx-VMS %Moisture: 1-SAMP-n5606.D 8260W OLM42 FileID: TestCode: **Revision:** 05/09/17 9:18 Col Type: **Date Analyzed** DF Units MDL **Result Qual PQL** Analyte SW8260C/5030C VOLATILE ORGANIC COMPOUNDS BY GC/MS 05/03/17 12:59 ua/L 1 0.50 0.10 ND Dibromochloromethane 05/03/17 12:59 1 µg/L ND 0.50 0.16 1,2-Dibromoethane 05/03/17 12:59 1 0.10 µg/L 8.48 0.50 Chlorobenzene 05/03/17 12:59 1.00 -1 Et 9 X 59 SI 9 в 59 ls 59 1 59

Ethylborizena	ND	0.50	0.10	µg/L	•	03/00/11 12:00
	ND	1.00	0.30	µg/L	1	05/03/17 12:59
Xylenes (total)		0.50	0.40	uo/i	1	05/03/17 12:59
Styrene	ND	0.50	0.10	pg	4	05/03/17 12:59
Bromoform	ND	1.00	0.33	μg/L		05/03/47 40/50
looptonuibenzene	0.48 J	0.50	0.10	µ g/ L	1	05/03/17 12:59
	ND	0.50	0.10	μg/L	1	05/03/17 12:59
1,1,2,2-retrachioroethane	10	0.60	0.10	ua/L	1	05/03/17 12:59
1,3-Dichlorobenzene	NU	0.50	0.10	ro/l	1	05/03/17 12:59
1.4-Dichlorobenzene	0.48 J	0.50	0.10	pyrc		05/03/17 12:50
1 2-Dichlorobenzene	0.28 J	0.50	0.10	µg/⊾	1	00/00/17 12.03
	ND	5.00	1.00	µg/L	1	05/03/17 12:59
1,2-Digromo-3-chioropropane		1.00	0.10	ug/L	1	05/03/17 12:59
1,2,4-Trichlorobenzene	ND	7.00	0.16	%REC	1	05/03/17 12:59
Surr: 1,2-Dichloroethane-d4	98	75-130	0.10	MDEC	4	05/03/17 12:59
Surr: Toluene-d8	100	75-125	0,10	%REU		00/00/17 12:00
Surr: 4-Bromofluorobenzene	99	75-125	0.10	%REC	1	05/03/17 12:59

Poetry 1912017

Qualifiers: * E J	Value may exceed the Acceptable Level Value exceeds the instrument calibration range Analyte detected below the PQL 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
P	Prim./Cont. column %D of KFD exceeds mint	t Duid I Drichard

Print Date: 05/31/17 7:54 826099 Project Supervisor: David J Prichard

Life Science Laboratories, Inc.							Ana	alytic	al Results	
	554 Butt ast Syra	cuse, NY 1.	3057 (315) 445	-1900			StateC	CertNo:	10248
CLIENT: Project:	O'Brien PAS Os	& Gere Ope swego-Semi-	rations, LLC Annual Well	Sampling		Lab I Clien	D: t Sample ID:	K17	705024-(W-4 05/	005A /02/17
W Order:	K17050)24 R				Colle Date	ction Date: Received:	05/0 05/0)2/17 12:3)2/17 15:3	30 35
Matrix: Inst. ID: ColumnID: Revision: Col Type:	MSN 7 Rtx-VN 05/09/1	76 48 7 9:18	Sample %Moist TestCod	Size: 10 ure: le: 820	mL 50W OLM42	Prep. Batel FileI	Date: hNo: D:	R31(1-SA	061 AMP-n56	07.D
Analyte			Res	ult Qua	PQL	MD	ւ Մո	nits	DF	Date Analyzed
VOLATILE	ORGANI	C COMPOU	NDS BY GC/	IS			SV	V8260	C/5030C	
Dichlorodifluo	romethan	e	71	ND	20.0	2.00	i µĝi	Ľ	20	05/03/17 13:30
Chloromethan	ne			ND	20.0	6.60	i µg	n_	20	05/03/17 13:30
Vinvl chloride			(54.8	20.0	6.60) yg	/L	20	05/03/17 13:30
Bromomethan	he			ND	20.0	6.60	eu la	/L	20	05/03/17 13:30
Chloroethane				46.0	20.0	6,60) µg	/L	20	05/03/17 13:30
Trichlorofluor	omethane			ND	20.0	2.00) ha	/L	20	05/03/17 13:30
1 1-Dichloroet	thene			ND	10.0	3.20) µg	/L	20	05/03/17 13:30
1 1 2 Trichlor	0-1 2 2-			ND	10.0	2.00) hã	/∟	20	05/03/17 13:30
trifluoroethane	e			-						
Acetone			a l	- -ND-	200	20.0) hâ	/L-	20	05/03/17 13:30
Carbon disulfi	ide			ND	10.0	2.20) hà	/L	20	05/03/17 13:30
Methyl acetat	e			ND	100	20.0) ին	/L	20	05/03/17 13:30
Methylene ch	iloride			3.80 J	40.0	3.20) ից	/L	20	05/03/17 13:30
frans_1 2-Dick	bloroethei	he		ND	10.0	2.00) hā	/L	20	05/03/17 13:30
Mothul tort-bi	itul ether			ND	20.0	3.20	o ya	A.	20	05/03/17 13:30
4.4 Dichloros	thana			30.6	10.0	2.0	0 yu	ı/L	20	05/03/17 13:30
-in 4.2 Diable	areathana			165	10.0	2.0	0 µ0	/L	20	05/03/17 13:30
CIS-1,2-DICINC	Juemene			ND	200	20.0	 0 uo	1/L	20	05/03/17 13:30
2-Butanone					10.0	2.0	0 u	y 1∕I.	20	05/03/17 13:30
Chlorotorm					10.0	2.0	ο μι ο ιπ	r/i	20	05/03/17 13:30
1,1,1-Trichlor	roethane				10.0	2.0	0 P3	s⁄ ⊑ ⊐/l	20	05/03/17 13:30
Cyclohexane	1			3.20 J	10.0	2.0	0 Pi	yr∟ ≂#I	20	05/03/17 13:30
Carbon tetrac	chloride			ND	10.0	2.0	24 V	yr⊑ ∍/l	20	05/03/17 13:30
Benzene				302	10.0	2.0	0 Hi	4/⊑ ≂/)	20	05/03/17 13:30
1,2-Dichloroe	ethane			3.80 J (/	10.0	3.2	o hi	gr L. L. (I	20	05/03/17 13:30
Trichloroethe	ene			2.60 J/V	10.0	2.0	ο μι Ο μί	-11 -11	20	05/03/17 13:30
Methylcycloh	exane			ND	10.0	2.0	ν ο μ	97L - 0	20	05/03/17 13:30
1,2-Dichlorop	propane			ND	10.0	3,2	о µ	g/L. (f	20	05/03/17 13:30
Bromodichlo	romethan	e		ND	10.0	2.0	и и и	g/L	20	05/03/17 13:30
cis-1,3-Dichl	oroproper	ne		ND	10.0	3.2	4 O	g/L	20	05/03/17 13:30
4-Methyl-2-p	entanone			ND	100	20.	.0 Ju	g/L	20	05/03/17 13:30
Toluene				68.4	10.0	2.0	4 O(g/L	20	05/03/17 13:30
trans-1,3-Dic	chloroprop	епе		ND	10.0	3.2	i0 h	g/L	20	05/03/17 13:30
1,1,2-Trichlo	roethane			ND	10.0	3.2	50 h	g/L	20	05/03/17 13:30
Tetrachloroe	ethene			ND	10.0	2.0	70 H	g/L	20	05/03/17 13:30
2-Hexanone	ł			ND	100	20	ų 0.	g/L	20	05/03/17 13:30
	* 1	Value may ever	d the Accentable	e Level		B	Analyte detected	d in the	associated	Method Blank
Qualifiers:	Qualifiers: value may exceed the instrument collibration range			nge	H	Holding times	for prep	aration or a	nalysis exceeded	
	Е 1	v aluc exceeus u A natuta dataatai	helow the DOT	ionation 1a		ND Not Detected at the Practical Quantitation Limit (PQL)				
	ג נ יים	niary cucieciec		exceeds li	mit	5	Spike Recover	y outsid	le accepted	recovery limits
	r .	milliocom. con					AT Databased			······
Print Date	e: 05/31/	17 7:54	826100	Proje	ect Superviso	r: Dav	id J Prichard			

TCT	Life Science	Laboratori	es, Inc.		An	alytic	cal Results
	ast Syracuse, NY 1	3057 (315) 445	-1900		State	CertNo:	10248
CLIENT: Project:	O'Brien & Gere Op PAS Oswego-Semi-	erations, LLC Annual Well Sampling		Lab ID: Client Sampl	K1' e ID: <i>LC</i>	70 5024- W-4 05,	005A /02/17
W Order: Matrix: Inst. Di	K1705024 WATER MSN 76	Sample Size: 10	mT.	Collection Da Date Receive PrepDate:	ite: 05/0 d: 05/0)2/17 12:)2/17 15:	30 35
ColumnID: Revision: Col Type:	Rtx-VMS 05/09/17 9:18	%Moisture: TestCode: 820	50W OLM42	BatchNo: FileID:	R31 1-S	061 AMP-n56	607.D
Analyte		Result Qual	PQL	MDL	Units	DF	Date Analyzed
	ORGANIC COMPOU	NDS BY GC/MS		1	SW8260	C/5030C	;
Dibromochlor	omethane	ND	10.0	2.00	µg/L	20	05/03/17 13:30
1.2-Dibromoe	thane	ND	10.0	3.20	µg/L	20	05/03/17 13:30
Chlorobenzen	ne .	254	10.0	2.00	µg/L	20	05/03/17 13:30
Ethylbenzene	-	346	10.0	2.00	μg/L	20	05/03/17 13:30
Xvienes (total	Ŋ	260 N	20.0	6.00	µg/L	20	05/03/17 13:30
Styrene	,	ND	10.0	2.00	µg/L	20	05/03/17 13:30
Bromoform		ND	20.0	6.60	μg/L	20	05/03/17 13:30
Isopropylbenz	zene	3,80 J	10.0	2.00	µg/L	20	05/03/17 13:30
1.1.2.2-Tetra	chloroethane	ND	10.0	2,00	μg/L	20	05/03/17 13:30
1.3-Dichlorob	enzene	ND	10.0	2.00	µg/L	20	05/03/17 13:30
1.4-Dichlorob	enzene	4.40 J	10.0	3.20	µg/L	20	05/03/17 13:30
1.2-Dichlorob	enzene	40.2	10.0	2.00	µg/L	20	05/03/17 13:30
1,2-Dibromo-	3-chloropropane	ND	100	20.0	μg/L	20	05/03/17 13:30
1,2,4-Trichlor	robenzene	ND	20.0	2.00	µg/L	20	05/03/17 13:30
Surr: 1,2-D	Dichloroethane-d4	99	75-130	3.20	%REC	20	05/03/17 13:30
Surr: Tolue	ene-d8	98	75-125	2.00	%REC	20	05/03/17 13:30
Surr A-Br	omofluorobenzene	103	75-125	2.00	%REC	20	05/03/17 13:30

Surr: 4-Bromofluorobenzene



Qualifiers:	* E J	Value may exc Value exceeds Analyte detecto Prim (Conf. co	eed the Acceptable the instrument cali ad below the PQL	Level bration range	B H ND S	Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded Not Detected at the Practical Quantitation Limit (PQL) Spike Recovery outside accepted recovery limits
Print Date:	05/3	1/17 7:54	826100	Project Supervisor:	Dav	id J Prichard

CLIENT: 'roject: V Order: Aatrix: nst. ID: ColumnID: Sevision:	O'Brien & Gere Ope PAS Oswego-Semi- K1705024 WATER	erations, LLC Annual Well Samplin	<u> </u>	Lab ID:	K1	705024-0)06A	
Matrix: nst. 1D: ColumnID: Sevision:	WATER		C Sampling		ie ID: <i>LC</i> ate: 05/	K1705024-006A LCW-2 05/02/17 05/02/17 14:00		
Col Type:	MSN 76 Rtx-VMS 05/09/17 9:18	Sample Size: 10 %Moisture: TestCode: 82	mL 60W OLM42	Date Receive PrepDate: BatchNo: FileID:	rd: 057 R31 1-S	02/17 15:: 1061 AMP-n56	08.D	
Analyte		Result Qua	I PQL	MDL	Units	DF	Date Analyzed	
	RGANIC COMPOU	NDS BY GC/MS			SW826	0C/5030C		
Dichlorodifluor	omethane	ND	5.00	0.50	µg/L	5	05/03/17 14:01	
Chloromethan	e	ND	5.00	1.65	µg/L	5	05/03/17 14:01	
Jinvi chlorida		19.2	5.00	1.65	μg/L	5	05/03/17 14:01	
Romomethar	è	ND	5.00	1.65	μg/L	5	05/03/17 14:01	
Chioroethane		6.70	5.00	1.65	µg/L	5	05/03/17 14:01	
Trichlorofluor	methane	ND	5.00	0.50	μg/L	5	05/03/17 14:01	
t 1 Dichlosopi	hone	ND	2.50	0.80	μg/L	5	05/03/17 14:01	
I, I-Dichiolocu		0.55.1	2.50	0.50	μg/L	5	05/03/17 14:01	
rifluoroetbarr	J-1,2,2- 7	0.000	-					
Acetone	•	-NĐ ƯỮ	50.0	5.00	µg/L	5	05/03/17 14:01	
Carbon disulfi	ide	ND	2.50	0.55	µg/L	5	05/03/17 14:01	
Mothyl scetat	A	ND	25.0	5,00	μg/L	5	05/03/17 14:01	
Methylane ch	u Iorida	- 1.10 J U	10.0	0.80	µg/L	5	05/03/17 14:01	
weinylene ch	loroethene	ND	2.50	0.50	µg/L	5	05/03/17 14:01	
(rans-1,2-Diva	noroethene	ND	5.00	0.80	µg/Ł	5	05/03/17 14:01	
Metnyi tert-bu	ilyi enici	16.0	2.50	0.50	μg/L	5	05/03/17 14:01	
1,1-Dicniorce	inane	31.8	2.50	0.50	µg/L	5	05/03/17 14:01	
cis-1,2-Dichic	roetnene		50.0	5.00	ua/L	5	05/03/17 14:01	
2-Butanone		110	2 60	0.50	ua/L	5	05/03/17 14:01	
Chloroform		1.100	2.50	0.50	ra	5	05/03/17 14:01	
1,1,1-Trichlor	roethane	0.00	2.00	0.50	на/L	5	05/03/17 14:01	
Cyclohexane		0.753	2.50	0.50	uo/t	5	05/03/17 14:01	
Carbon tetrac	chloride	ND	2.50	0.00	µg/c. ug/t	5	05/03/17 14:01	
Benzene		206	2.50	0.50	µg/L ug/l	5	05/03/17 14:01	
1,2-Dichloroe	ethane	ND	2.50	0.60	pg/c ua/l	5	05/03/17 14:01	
Trichloroethe	ine	8.20	2.50	0.50	ug/L	5	05/03/17 14:01	
Methylcycloh	exane	ND	2.50	0.50	µg/r_	5	05/03/17 14:01	
1,2-Dichlorop	oropane	ND	2.50	080	µg/L	9. E	05/03/17 14:01	
Bromodichlo	romethane	ND	2.50	0.50	µg/L	5	05/03/17 14:0	
cis-1,3-Dichl	oroptopene	ND	2.50	0.80	µg/L	5	05/05/17 14:01	
4-Methyl-2-p	entanone	ND	25.0	5.00	µg/L	5	00/00/17 14:0	
Toluene		0.70 J	2.50	0.50	µg/L	5	05/03/17 14:0	
trans-1,3-Dir	chloropropene	ND	2.50	0.80	µg/L	5	14:V 14:V	
1,1,2-Trichlo	roethane	1.05 J	2.50	0.80	µg/L	5	05/03/17 14:0	
Tetrachloroe	thene	20.4	2,50	0.50	µg/L	5	05/03/17 14:07	
2-Hexanone		ND	25.0	5.00	µg/L	5	05/03/17/14:01	
	* 17-1	and the Accentchie Tour		B Analyte	detected in t	he associated	I Method Blank	
Qualifiers:	 value may exce 	the instrument calibration :	9002	H Holding	times for pr	eparation or	analysis exceeded	
	E value exceeds	the instrument canoration i	ange	ND Not Detected at the Practical Quantitation Limit (PQL)				
	J Analyte detecte		limit	S Shike Recovery outside accepted recovery limits				

Print Date: 05/31/17 7:54

Analytical Results

	East Syracuse, NY 13057 (315) 445-1900					StateCertNo: 10248				
CLIENT: O'Brien & Gere Operat Project: PAS Oswego-Semi-An W Order: K1705024 Matrix: WATER		re Operatio Semi-Ann	ons, LLC ual Well Samp	ling	Lab ID: Client Sam Collection I	K17 ple ID: LC Date: 05/0	K1705024-006A LCW-2 05/02/17 05/02/17 14:00 05/02/17 15:35			
Matrix: Inst. ID: ColumnID: Revision: Col Type:	WATER MSN 76 Rtx-VMS 05/09/17 9:13	8	Sample Size: %Moisture: TestCode:	10 mL 8260W OLM4	Date Receiv PrepDate: BatchNo: 2 FileID:	R31 1-S2	061 AMP-n5	608.D		
Analyte			Result (ual PQL	MDL	Units	DF	Date Analyzed		
VOLATILE ODCANIC COMPOUNDS BY GC/MS					\$W8260	C/50300	3			
VOLATILE	URGANIC CU	MPOUNDO		2.50	0.50	µg/L	5	05/03/17 14:01		
Dibromochlor	ometnane			2.50	0.80	µg/L	5	05/03/17 14:01		
1,2-Dibromoe	inane		53.1	2.50	0.50	μg/L	5	05/03/17 14:01		
Chlorobenzer	ne		7.65	2.50	0.50	µg/L	5	05/03/17 14:01		
Ethylbenzene	1		2.05	1 5.00	1.50	µg/L	5	05/03/17 14:01		
Xylenes (tota	1)		5.90 ·	2.50	0.50	μg/L.	5	05/03/17 14:01		
Styrene			ND	5.00	1.65	ug/L	5	05/03/17 14:01		
Bromoform			4 20	2.50	0.50	ua/L	5	05/03/17 14:01		
Isopropylben	zene		4.50	2.50	0.50	ug/L	5	05/03/17 14:01		
1,1,2,2-Tetra	chloroethane		4.15 ND	2.50	0.50	μg/L	5	05/03/17 14:01		
1,3-Dichlorot	enzene			2.50	0.80	µg/L	5	05/03/17 14:01		
1,4-Dichlorot	senzene		2.05	2.50	0.50	µg/L	5	05/03/17 14:01		
1,2-Dichlorot	benzene		3.80 ND	250	5.00	ug/L	5	05/03/17 14:01		
1,2-Dibromo	-3-chloropropane	9		5.00	0.50	μα/L	5	05/03/17 14:01		
1,2,4-Trichlo	robenzene		07 70	75 120	0.80	%REC	5	05/03/17 14:01		
Surr: 1,2-0	Dichloroethane-d	4	97	70-100	0.50	%REC	5	05/03/17 14:01		
Surr: Tolu Surr: 4-Br	ene-d8 omofluorobenze	ne	99	75-125	0.50	%REC	5	05/03/17 14:01		

Boered & 191201

Qualifiers:	*	Value may exceed the Acceptable 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
	1			

Print Date: 05/31/17 7:54 826101 Project Supervisor: David J Prichard

I CI	2110 SCIONC 854 Butternut Driv	/e				·· •/ ·	
LOLISC	ast Syracuse, NY	13057 (315) 445	-1900		Sta	teCertNo:	10248
	OfDerion & Corro O	monstions IIC		Lab ID:	K	1705024-	007A
	DAS Oswaro-Sem	i-Annual Well Sampling	r	Client San	nple ID: X	-1 05/02/	(17
rojece:	FAS Oswego-Sem	i-Ailiaar won oampning		Callestion	Data: 0	5/02/17 0·0	<u>0</u>
V Order:	K1705024			Conection	bale; 0	5/02/17 15:	35
Aatrix:	WATER Q			Date Rece	ivea: v	5/04/17 15.	
nst. D:	MSN 76	Sample Size: 10	mL	PrepUate	; 	21061	
ColumnID:	Rtx-VMS	%Moisture:		BatchNo:	K 1	51001 0430054	(00 T)
Revision:	05/09/17 9:18	TestCode: 826	50W OLM42	FileID:	1.	-SAIVIE-IIS	JU7.D
Col Type:							
Analyte		Result Qual	PQL	MDL	Units	DF	Date Analyzed
OLATILE (ORGANIC COMPO	UNDS BY GC/MS			SW82	60C/5030C	;
)ichlorodifluo	romethane	ND	1.00	0.10	µg/L	1	05/03/17 14:32
hloromethan	e	ND .	1.00	0.33	µg/L	1	05/03/17 14:32
/inyl chloride		ND	1.00	0.33	µg/L	1	05/03/17 14:32
3romomethar	1e	ND	1.00	0.33	µg/L	1	05/03/17 14:32
Chloroethane		4.66	1.00	0.33	µg/L	1	05/03/17 14:32
richlorofluor	omethane	ND	1.00	0.10	µg/L	1	05/03/17 14:32
1,1-Dichloroel	thene	ND	0.50	0.16	µg/L	1	05/03/17 14:32
1,1,2-Trichloro rifiuoroethane	o-1,2,2- e	ND	0.50	0.10	µg/L	1	05/03/17 14:32
Acetone		1.45 J -	10.0	1.00	µg/L	1	05/03/17 14:32
Carbon disulf	ide	ND	0.50	0.11	µg/L	1	05/03/17 14:32
Vethyl acetat	e	ND	5.00	1.00	µg/L	1	05/03/17 14:32
Methylene ch	loride	ND	2.00	0. 16	μg/L	1	05/03/17 14:32
rans-1,2-Dicl	hloroethene	ND	0.50	0.10	μg/L	1	05/03/17 14:32
Methyl tert-bu	ityl ether	ND	1.00	0.16	µg/L	1	05/03/17 14:32
1.1-Dichloroe	thane	ND	0.50	0.10	µg/L	1	05/03/17 14:32
cis-1,2-Dichlo	proethene	ND	0.50	0.10	µg/L	1	05/03/17 14:32
2-Butanone		ND	10.0	1.00	µg/L	1	05/03/17 14:32
Chloroform		ND	0.50	0.10	μ g/L	1	05/03/17 14:32
1.1.1-Trichlor	roethane	ND	0.50	0.10	μg/L	1	05/03/17 14:32
Cyclohexane		2.24	0.50	0.10	μg/L	1	05/03/17 14:32
Carbon tetrac	chloride	ND	0.50	0.10	µg/L	1	05/03/17 14:32
Benzene		0.57	0.50	0.10	μg/L	1	05/03/17 14:32
1,2-Dichloroe	ethane	ND	0.50	0.16	µg/L	1	05/03/17 14:32
Trichloroethe	ne	ND	0.50	0.10	µg/L	1	05/03/17 14:32
Methylcycloh	iexane	0.23 J	0.50	0.10	µg/L	1	05/03/17 14:32
1.2-Dichlorop	propane	ND	0.50	0.16	µg/Լ	1	05/03/17 14:32
Bromodichio	romethane	ND	0.50	0.10	µg/L	1	05/03/17 14:32
cis-1.3-Dichl	oropropene	ND	0.50	0.16	µg/L	1	05/03/17 14:32
4-Methyl-2-p	entanone	ND	5.00	1.00	µg/L	. 1	05/03/17 14:32
Toluene		0.24 J	0.50	0.10	μg/L	1	05/03/17 14:32
trans-1,3-Dic	chloropropene	ND	0.50	0.16	µg/L	1	05/03/17 14:32
1,1,2-Trichlo	roethane	ND	0.50	0.16	µg/L	1	05/03/17 14:32
Tetrachloroe	othene	ND	0.50	0.10	µg/L	1	05/03/17 14:32
2-Hexanone		ND	5.00	1.00	µg/L	1	05/03/17 14:32
OneliGener	* Value may ex	ceed the Acceptable Level		B Anal	yte detected in	the associate	d Method Blank
Quamters:	E Value exceeds	the instrument calibration ran	nge	H Holding times for preparation or analysis exceeded			
	J Analyte detect	ted below the PQL		ND Not I	Detected at the	Practical Qua	antitation Limit (PQL)
	P Prim./Conf. c	olumn %D or RPD exceeds lir	nit	S Spik	e Recovery ou	tside accepted	recovery limits
Deint Date	a. 05/31/17 7.54	826102 Proje	ct Supervisor	: David J F	richard		

Analytical Results

Project Supervisor: David J Prichard

LSL	Life Science	Laborate	ories, Inc	•	An	alyti	cal Results
E	ast Syracuse, NY 1	3057 (315)	445-1900		State	CertNo:	10248
CLIENT: Project:	O'Brien & Gere Ope PAS Oswego-Semi-	erations, LLC Annual Well Sam	oling	Lab ID: Client Sampl	K1 le ID: X-	705024- 1 05/02/	007A /17
W Order: Matrix: Inst. ID: ColumnID: Revision:	K1705024 WATER Q MSN 76 Rtx-VMS 05/09/17 9:18	Sample Size: %Moisture; TestCode:	: 10 mL 8260W OLM42	Collection Date Date Receive PrepDate: BatchNo: FileID:	ate: 05/ ed: 05/ R3 1-S	02/17 0:0 02/17 15: 1061 AMP-n56	0 35 509.D
Col Type:			·····	<u></u>			<u> </u>
Analyte		Result (Qual PQL	MDL	Units	DF	Date Analyzed
VOLATILE	ORGANIC COMPOU	NDS BY GC/MS			SW826	DC/5030C	;
Dibromochlor	omethane	ND	0.50	0.10	µg/L	1	05/03/17 14:32
1,2-Dibromoe	thane	ND	0.50	0.16	µg/L	1	05/03/17 14:32
Chlorobenzer	18	10.5	0.50	0.10	µg/L	1	05/03/17 14:32
Ethylbenzene	I	ND	0.50	0.10	µg/L_	1	05/03/17 14:32
Xylenes (total)	ND	1.00	0.30	µg/L	1	05/03/17 14:32
Styrene		ND	0.50	0.10	µg/L	1	05/03/17 14:32
Bromoform		ND	1.00	0.33	µg/L	1	05/03/17 14:32
Isopropylbenz	tene	0.61	0.50	0.10	µg/L	1	05/03/17 14:32
1,1,2,2-Tetrac	chloroethane	ND	0.50	0.10	µg/L	1	05/03/17 14:32
1,3-Dichlorob	enzene	ND	0.50	0.10	µg/L	1	05/03/17 14:32
1,4-Dichlorob	enzene	0.57	0.50	0.16	µg/L	1	05/03/17 14:32
1,2-Dichlorob	enzene	0.38	J 0.50	0.10	µg/L	1	05/03/17 14:32
1,2-Dibromo-	3-chloropropane	ND	5.00	1.00	μg/L	1	05/03/17 14:32
1,2,4-Trichlor	obenzene	ND	1.00	0.10	µg/L	1	05/03/17 14:32
Surr: 1,2-D	lichloroethane-d4	98	75-130	0.16	%REC	1	05/03/17 14:32
Surr: Tolue	ene-d8	102	75-125	0.10	%REC	1	05/03/17 14:32
Surr: 4-Bro	mofluorobenzene	102	75-125	0.10	%REC	1	05/03/17 14:32

Joley S. Newbord

	*	Value may exceed the Acceptable Level	B	Analyte detected in the associated Method Blank
E		Value exceeds the instrument calibration range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	Р	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits
			1	1 3 D 1.1

Print Date: 05/31/17 7:54 826102 Project Supervisor: David J Prichard

E	ast Syracuse, NY 1	3057 (315)	445-1900		S	tateCert	No: 10248
CLIENT: Project: W Order: Matrix:	O'Brien & Gere Ope PAS Oswego-Semi- K1705024 WATER Q	erations, LLC Annual Well Sam	pling	Lab ID: Client Sampl Collection Date Receive	e D: ate: d:	K17050 QC Trij 04/26/17 05/02/17	24-008A p Blank 05/02/17 0:00 15:35
lnst. ID: ColumnID: Revision: Col Type:	MSN 76 Rtx-VMS 05/09/17 9:18	Sample Size %Moisture: TestCode:	: 10 mL 8260W OLM4	PrepDate: BatchNo: 2 FileID:		R31061 1-SAMP	-n5610.D
Analyte	· · · · · · · · · · · · · · · · · · ·	Result (Qual PQL	MDL	Uni	ts DF	Date Analyze
	ORGANIC COMPOU	NDS BY GC/MS			SW	8260C/50	30C
Dichlorodifiuo	romethane	ND	1.00	0.10	µg/L	. 1	05/03/17 15:03
Chloromethan	e	ND	1.00	0.33	μg/L	. 1	05/03/17 15:03
/invl chloride	-	ND	1.00	0.33	µg/L	. 1	05/03/17 15:03
Bromomethar	18	ND	1.00	0.33	µg/L	. 1	05/03/17 15:03
Chloroethane		ND	1.00	0.33	µg/L	. 1	05/03/17 15:03
Trichlorofiuor	methane	ND	1.00	0.10	µg/L	. 1	05/03/17 15:03
i 1_Dichloroei	hene	ND	0.50	0.16	μg/L	. 1	05/03/17 15:03
1,1,2-Trichlor	p-1,2,2-	ND	0.50	0.10	µg/L	. 1	05/03/17 15:03
	2	ND	10.0	1.00	ug/L	. 1	05/03/17 15:03
Acetone Carbon diculf	ida		0.50	0 11	ua/L	_ 1	05/03/17 15:03
Salbon uisun.	nu c	ND	5.00	1.00	. uo/L	_ 1	05/03/17 15:03
Methylana ab	o Iorido	ND	2.00	0.16	ua/L	- 1	05/03/17 15:03
Wethylese Cr			2.00	0.10	uo/L	1	05/03/17 15:03
	noroemene		1.00	0.16	 ua/l	- 1	05/03/17 15:03
Metnyi ten-bu	ityi etner	ND	0.60	0.10	uo/i		05/03/17 15:03
1,1-DICNIOROE			0.50	0.10	на/I		05/03/17 15:03
CIS-1,Z-DICNIC	roetnene		10.0	1.00	un/l	- 1	05/03/17 15:03
2-Butanone			0.50	0.10	uo/l	- · 1	05/03/17 15:03
Chlorotorm			0.50	0.10	uo/l	- ·	05/03/17 15:03
1,1,1-Trichlor	oethane		0.50	0.10	194 100/	- ·	05/03/17 15:03
Cyclohexane		עא	0.50	0.10	104/1 109/1	 1	05/03/17 15:03
Carbon tetrac	chloride	ND	0.50	0.10	PBN Dal	 . 1	05/03/17 15:03
Benzene		ND	0.50	0.10	hâu Mai	L 1	05/03/17 15:03
1,2-Dichloroe	thane	ND	0.50	0.10	P90 Ual	ь і і 1	05/03/17 15:03
Trichloroethe	ne	ND	0.50	0.10	μg/: ug/	 	05/03/17 15:03
Methylcycloh	exane	ND	0.50	0.10	μgr	ц і і 4	05/03/17 15:03
1,2-Dichlorop	ropane	ND	0.50	0.16	µg/	L : 	05/03/17 15:03
Bromodichio	romethane	ND	0.50	0.10	hði Mar	L I 1 1	05/03/17 15:05
cis-1,3-Dichle	propropene	ND	0.50	0.16	µg/		NOINGITT 10:00 ARIA9/47 45-00
4-Methyl-2-p	entanone	ND	5.00	1.00	μg/	L] 4	00/00/17 10.00
Toluene		ND	0.50	0.10	hði Mari	L I 1 1	05/03/17 15:03
trans-1,3-Dic	hloropropene	ND	0.50	0.16	μg	ь 1 ц 4	05/03/17 10:03
1,1,2-Trichlo	roethane	ND	0.50	0.16	hđ/	ь і 11 л	05/03/17 15:03
Tetrachloroe	thene	ND	0.50	0,10	µg/	ц I 1, 1	05/03/17 15:03
2-Hexanone		ND	5.00	1.00	hđi 	<u>ь</u> I	
Qualifiers:	 Value may excer 	d the Acceptable Leve	:l	B Analyte c	letected	in the assoc	iated Method Blank
	E Value exceeds the	e instrument calibration	on range	H Holding	times for	r preparation	n or analysis exceeded
	J Analyte detected	below the PQL		ND Not Dete	cted at t	he Practical	Quantitation Limit (PQL)
	P Prim./Conf. colu	mn %D or RPD excee	ds limit	S Spike Re	covery (nuiside acce	pica recovery minus

LSL	Life Science 854 Butternut Drive	Laborate	ories, Inc.		A	nalyti	cal Results
E	ast Syracuse, NY 13	6057 (315)	445-1900		Sta	teCertNo:	10248
CLIENT: Project:	O'Brien & Gere Oper PAS Oswego-Semi-A	rations, LLC Annual Well Samj	oling	Lab ID: Client Samp	K le ID: Q	(1705024- C Trip B	008A lank 05/02/17
W Order: Matrix:	K1705024 WATER Q	Seconda Stee	101	Collection D Date Receive	ate: 04 ed: 02	4/26/17 0:0 5/02/17 15:	0 35
ColumnID: Revision: Col Type:	MSN 76 Rtx-VMS 05/09/17 9:18	Sample Size: %Moisture: TestCode:	8260W OLM42	BatchNo: FileID:	R. 1-	31061 SAMP-n56	510.D
Analyte		Result (Jual PQL	MDL	Units	DF	Date Analyzed
VOLATILE (ORGANIC COMPOUN	IDS BY GC/MS			SW82	60C/5030C	
Dibromochloro	omethane	ND	0.50	0.10	μg/L	1	05/03/17 15:03
1,2-Dibromoel	thane	ND	0.50	0,16	µg/L	1	05/03/17 15:03
Chlorobenzen	e	ND	0.50	0.10	µg/L	1	05/03/17 15:03
Ethylbenzene		ND	0.50	0.10	µg/L	1	05/03/17 15:03
Xylenes (total))	ND	1.00	0.30	µg/L	1	05/03/17 15:03
Styrene		ND	0.50	0.10	μg/L	1	05/03/17 15:03
Bromoform		ND	1.00	0.33	µg/L	1	05/03/17 15:03
Isopropyibenz	ene	ND	0.50	0.10	μg/L	1	05/03/17 15:03
1,1,2,2-Tetrac	hioroethane	· ND	0.50	0.10	µg/L	1	05/03/17 15:03
1,3-Dichlorobe	enzene	ND	0.50	0.10	µg/L	1	05/03/17 15:03
1,4-Dichlorobe	enzene	ND	0.50	0.16	µg/L	1	05/03/17 15:03
1,2-Dichlorob	enzene	ND	0.50	0.10	μġ/L	1	05/03/17 15:03
1,2-Dibromo-3	3-chloropropane	ND	5.00	1.00	μg/L	1	05/03/17 15:03
1,2,4-Trichlord	obenzene	ND	1.00	0.10	µg/L	1	05/03/17 15:03
Surr: 1,2-D	ichloroethane-d4	100	75-130	0.16	%REC	1	05/03/17 15:03
Surr: Tolue	ne-d8	103	75-125	0.10	%REC	1	05/03/17 15:03
Surr: 4-Bro	mofluorobenzene	105	75-125	0.10	%REC	1	05/03/17 15:03

Colex alaphi

D 1 (D.4	AE /01	1177.51	006100	Ductors Com antisan	Dou	d I Drichard
	Р	Prim./Conf. co	umn %D or RPD	exceeds limit	S	Spike Recovery outside accepted recovery limits
	J	Analyte detected	d below the PQL	·	ND	Not Detected at the Practical Quantitation Limit (PQL)
•	Е	Value exceeds	the instrument cal	ibration range	н	Holding times for preparation or analysis exceeded
Qualifiers:	*	Value may exc	ed the Acceptable	Level	В	Analyte detected in the associated Method Blank

Print Date: 05/31/17 7:54 826103 Project Supervisor: David J Prichard

Life Science La Central Lab	boratori	es, I	nc.	588 Ea: (31	54 Butte st Syrac 5) 445-	rnut E use, N 1105)rive New Y	ork 1	13057		C	hain	of Custod
lient: OPRIFUE AGINE OP								}	$\langle 1 \rangle$	<u>650</u>	24	<u> </u>	
roject DOS OCURAN	<u>></u>				/•		/		7	nalysi: 7	s/ivieth		<u>A</u>
ampled by mathematical K	em, HANI	ACU	$v \in \mathbb{N}$	AMPI	ng	/	J /	/	' /	′./	' /		Samples Received
lient Contact: mark Rynamic	Phone #		<u> </u>			/ .	3 /	/					On los
MELLE OVINGE DYRNE		315.	-842	-705	24	/ 3	. /					/*	
Sample D	escription			····		$\tilde{\mathbf{r}}$	°/				/		7.2
Sample Location	Date Collected Co	Time Ilected	Sample Matrix	Comp. or Grab	No. of Containers	00	/		/	/	/	/	Comments
1 Equipment BLANK	5-1-17 13	3:20	w	6	3	3		[ſ	1	[f	
~ M-al, MS; MSD	5-1-17 12	405	W	6	9	9							
<u>3 0D-3</u>	5-2-17 8	30	w	6	3	3							
<u>LR-8</u>	5-2-17 11	0:00	$\boldsymbol{\omega}$	6	3	3							
$\sum LCU + 4$	5-2-17 10	a:30	ω	6	3	3							
6 LCW-2	5-2-17 1	4:00	_w	6	3	3				-			
<u>1 X-1</u>	5-2-17 -		V	6	3	3							
QC TRIP BLANK	-1-26-17		W		2	2							
-													
									<u> </u>				
elinquished by: Matta Koemone	Date:	5-2-1	Time:	1530	Receive	d by:			•		Ď	ate:	Time:
elinguished by:	Date:		Time		Receive	d by:	•				Da	ate:	Time:
elinquished by:	Date:		Time	;	Receive	d by Lal	b: Billin	this	Alsolo	ast and	Da	ate: 5 -	2-17 Time: 15"
nipment Method: HAND			,		Airbill N	imber:	1	<u></u>		r tal			
Irnaround Time Required: 	Comments:		• <u>•</u> •••	<u></u>				·		<u> </u>			•.

Sample Receipt Checklist

Client Name: OGINA PAS		Date and T	ime Received:	5/2/2017 3:35:00 PM
Work Order Number: K1705024		Received b	y: rv	
Checklist completed by:		_ Reviewed	i by:	5/3/12 Date
Delivery Method:	Hand Delivered	!		
Shipping container/cooler in good condition?	Yes 🗹	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗌	No 🗔	Not Present	
Custody seals intact on sample bottles?	Yes	No	Not Applicable 🖌	
Chain of custody present?	Yes 🗹	No		
Chain of custody signed when relinquished and received?	Yes 🗹	No		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗔		
Sample containers intact?	Yes 🗹	No []]		
Sufficient sample volume for indicated test?	Yes 🔽	No 🗔		
All samples received within holding time?	Yes 🖌	No		
Container/Temp Blank temperature in compliance?	Yes	No 🗹		
Water - VOA vials have zero headspace?	Yes 🔽	No	No VOA vials submitted	
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable 🔽	

Comments:

Some symples taken 5/1/17 were >6°C. Ok to proceed per Martin K.

Corrective Action:

Date	5-1-17	Weather	Light RAIN to
Site Name	PAS Oswego	Well #	m-21
Location	55 East Seneca Șt	Evacuation Method	Grundfos Low Flow Equip.
Project Number	M. Koenneckel	Sampling Method	EPA Low Flow Method II
Personnel			

WELL INFORMATION

i.

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 9,18	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

Volume removed before Samp	ling 3,5	gals	
Did Well go dry?	No		
		ζą.	
Measurements Taken From:	Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	· · · · · · · · · · · · · · · · · · ·
10.0 Standard		· ·
	,	

5

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK
			•				

WATER PARAMETERS /3 30

Time	Depth to Water	Temperature	рН	Conductivity MS/см	ORP	DO (%)	Turbidity (NTU)	Flow Rate
SALIN	9,20	9.45	7,15	0.942	#68,9	0,85	4,03	300 ml
10 min	9.20	9.106	7,10	0,945	- 78,4	0,49	1,66	300 ml
15 min	9.18	10.00	7.10	0,952	- 83,6	0,36	0.77	300 ml
20 mili	9.18	10,06	7,10	0.952	- 90,6	0,27	0.72	300 ml
25 min	9.18	10,10	7,10	0,952	- 89,6	0,25	0,80	Book
onn	9,18	10,12	7,10	0.952	- 88 9	0,22	0.72	320ml
					·			

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360° Engineering and Project Delivery Solutions

BRIEN 5 GERE

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WATER SAMPLE M-21

Time Collected:

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	clean .	lein
Odor	1.0	A:0
Turbidity <100 (NTU)	NC	NO NO
Sheen/Free Product	NJ .	N'O

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
Heank	alazo	<u> </u>	n'cs	BFG1-	
	<i>.</i>				
	 	<u> </u>			
		<u> </u>			
	<u> </u>				
<u>,</u>		1			

NOTES

MS, MSD CollectED Pid READING CO PRA

GROUND WATER SAMPLING LOG

Daté	5-2-17	Weather	OVERCHST 60°
Site Name	PAS Oswego	Well #	LCW-4
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number		Sampling Method	EPA Low Flow Method II
Personnel	M. Koennecke		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 17,12	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	X

Volume removed before Sampling	2,5	gals
Did Well go dry?	NO	

Measurements Taken From:	Well Casting	Protective Casting	Other:
		· · · · · · · · · · · · · · · · · · ·	

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS 12:00

Time	Depth to Water	Temperature	рН	Conductivity	ORP	DO (%) M4/L	Turbidity (NTU)	Flow Rate
5 m 100	17,12	10,53	6,85	1.906	-177,8	0,96	5.70	300
10 min	17.12	10,78	6.81	1.924	- 88,5	0,63	5.46	300
15min	17.12	10.84	6,81	1.927	- 94.0	0,52	5,5 le	300
DOMIN	17.12	10,87	6,80	1,929	- 95,6	0,44	5,80	300
25 MIN	17.12	10.87	6.80	1,933	- 94.3	0133	5,75	300
30 MIN	17,12	10.87	6.80	1,934	-97,1	0,32	5.72	300

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WATER SAMPLE LCW-H

Time Collected: 1830

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	SLIGHT Xellowistt	SLIGHT Vellowist
Odor	SLight	SLIGHT
Turbidity <100 (NTU)	hu-	Nb
Sheen/Free Product	NU	NO

.

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	glowy	3	·····	HCL	
					-
		[

NOTES

PID- 0.0 PPM

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GROUND WATER SAMPLING LOG

Date	5-2-17	Weather	Light RAIN 60°
Site Name	PAS Oswego	Well #	Lew-2
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number		Sampling Method	EPA Low Flow Method II
Personnel	M Koennaky		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 11,28	2" Diameter Well	= 0.163 X LWC	
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	<u>入</u>

Volume removed before Sampling	.3	gals	
Did Well go dry?	NO		

Measurements Taken From:	Well Casting	Protective Casting	Other:

INSTRUMENT CALIBRATION

	Conductivity Standard	
pH Buffer Readings	Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS 13:15

Time	Depth to Water	Temperature උ_	рН	Conductivity MS/Cm	ORP	DO (%) Mg/L	Turbidity (NTU)	Flow Rate
5mm	11.28	9,84	10.97	1.523	-68,9	1/19	9.76	300
10 min	11.28	9,97	6.89	1,530	- 83.8	0,69	4.75	300
15min	11,28	9,9.8	6,83	1.528	- 85.7	0.52	4,55	300
2.0412	11.2.8	10.04	6.82	1.523	- 80,0	0,42	5,11	300
asmin	11.28	10.05	6.81	1.523	- 74.6	0.33	5,04	300
Bomin	11.28	10,03	6,81	1.522	- 76,1	0,30	5.04	300
35 MIN	11.28	10,03	6,80	1,522	- 76.9	12,0	5,06	300
40 mm	11,28	10,04	6.80	1,520	- 80,0	0,20	5,08	300

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O'BRIEN 5 GERE

WATER SAMPLE LCW-2

Time Collected: 14:00

Characteristics	Physical Appearance At Start	Physical Appearance At Sampling
Color	Clean	cleon
Odor	SLI yhi	sLight
Turbidity <100 (NTU)	NO.	NO
Sheen/Free Product	NO	NO

SAMPLES COLLECTED

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	gluss	3		HC1	_
	0				
		[[

NOTES

PID - 82.5 PEAK AVY, 24.0 PPM

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Date	5-2-17	Weather	P-Survey 55
Site Name	PAS Oswego	Well #	LR-8
Location	55 East Seneca St	Evacuation Method	Grundfos Low Flow Equip.
Project Number		Sampling Method	EPA Low Flow Method II
Personnel	M. Koennecke		

WELL INFORMATION

Depth of Well	ft			Water Vol/ft for:
Depth of Water	ft 9,54	2" Diameter Well	= 0.163 X LWC	X
Length of Water Column	ft	4" Diameter Well	= 0.653 X LWC	
Volume of Water in Well	gal	6" Diameter Well	= 1.469 X LWC	
3x Volume of Water in Well	gal	14" Diameter Well	= 2.282 X LWC	

.....

Volume removed before Sampling	gals
Did Well go dry?	

Measurements Taken From:	Well Casting	Protective Casting	Other:	

INSTRUMENT CALIBRATION

pH Buffer Readings	Conductivity Standard Ratings	
4.0 Standard	84 S Standard	
7.0 Standard	1413 S Standard	
10.0 Standard		

TEST EQUIPMENT DEPTHS WITHIN WELL

Time	Well Screen Depth	Depth of Intake Pump	Blank	BLANK	BLANK	BLANK	BLANK

WATER PARAMETERS 9:00

Time	Depth to Water	Temperature C	рН	Conductivity	ORP	DO (%)	Turbidity (NTU)	Flow Rate
Smill	9,18	10.43	7,24	0,791	- 10,0	2,35	12.0	300 ml
IMIN	9,85	10.53	7,26	0,805	- 77.4	1,32	2,64	300
BAVEN	9,90	10,74	7.28	0,836	- 92.8	0,68	1.95	300
ZOMIN	9,90	10.84	7.15	0.903	- 76.8	0,37	0.43	300
25min	9,90	10.87	7,11	0.928	- 77,1	0,35	0,44	300
30mm	9.90	10,90	17,06	0.957	- 78.0	0,37	0.44	300
Shull	9,90	10,91	7,05	0,958	- 78,2	0,34	0.50	300
Homin	9.90	10,91	7.05	0,959	- 77,4	0,32	0.42	300

30° Engineering and Project Delivery Solutions



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ATTACHMENT D-4

QUARTERLY POTW DISCHARGE REPORTS 2ND QUARTER 2017



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

June 5, 2017

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

Re: 2nd Quarter PAS Oswego Progress Report 2017

Dear Mr. O'Brien,

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 during March – May 2017. This has been due to the EPA allowance of an alternate disposal method.

- Cumulative gallons removed for discharge in Auburn 2nd Qtr. 2017 0
- Cumulative gallons removed for discharge in Auburn over 2017 0

Since no wastewater was shipped or discharged to Auburn during the 2nd quarter, no analytical testing was required. However, we continue to perform Site maintenance and sampling activities under the Operation, Monitoring and Maintenance Program for the Site approved by EPA. 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 Me Clamon

Clay McClarnon

CMC/dsr

cc: PAS Management Committee

CS PAPER



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

Via electronic mail

July 14, 2017

Mr. Robert L. Johnson City Engineer Technician 13 W. Oneida City Hall Oswego, New York 13126 darcher@oswegony.gov

Re: Quarterly Discharge Report – 2nd Quarter 2017 Pollution Abatement Services Site – Oswego, New York City of Oswego Wastewater Discharge Permit 6-2017-18

Dear Mr. Johnson:

This quarterly report is submitted in accordance with the City of Oswego Wastewater Discharge Permit 6-2017-18 (Permit) for discharge of leachate from the Pollution Abatement Services (PAS) Site into the City of Oswego's Eastside Wastewater Treatment Facility. Discharge to the City of Oswego was reestablished in January 2017. This report covers the reporting period from April 2017 through June 2017.

The PAS Site discharged a total of 50,015 gallons of leachate to the Oswego sewer system during the second quarter of 2017.

Discharge to City of Oswego April 2017 – June 2017

50,015 gallons

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

Sincerely, de maximis, inc.

Clay McClarnon

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

F:\PROJECTS\3131 - PAS\Permits-POTW 10\2017\Oswego\2nd Qtr\Oswego 2nd Qtr 2017 rpt.doc

Allentown, PA • Clinton, NJ • Greensboro, GA • Knoxville, TN • San Diego, CA • Irvine, CA Sarasota, FL • Houston, TX • Windsor, CT • Waltham, MA • Guilderland, NY

TABLE 1 - PAS OSWEGO SITE QUARTERLY REPORT FOR CITY OF OSWEGO (2017) LEACHATE DISCHARGE TO OSWEGO EASTSIDE WASTEWATER TREATMENT FACILITY (Oswego SIU Wastwater Discharge Permit No.6-2017-18)

Reparted by as it when its int

(Oswego SIU Wastwater Discharge Permit No.6-2017-18)												
Discharge Quarter	1Q 2	017	2Q 2	2017								
	Date Discharged (temp/pH)	Gallons Discharged	Date Discharged (temp/pH)	Gallons Discharged								
	1/7/17	10,010	4/4/17	10,005								
	42/6.8		45/6.8									
	2/15/17	10,005	5/3/17	20,005								
	44/6.8		46/6.8									
	3/7/17	10,005	6/8/17	20,005								
	42/6.8		53/6.8									
Total Discharged		30,020		50,015								
Date Sampled*	Permit Limit	3/7/2017 ***										
Analytes	mg/L	mg/L										
Antinomy Arsenic Beryllium Cadmium Chromium (total) Copper Cyanide Lead Mercury Nickel Selenium Silver Thallium Zinc	0.107 0.358 0.107 0.43 0.67 0.43 0.67 0.19 0.0002 0.69 0.282 0.65 0.073 1	0.00075 0.0166 ND <0.0003 ND <0.001 ND <0.007 0.0197 ND <0.010 <0.0016 NA 0.296 0.005 ND <0.001 ND <0.0003 0.0052										
VOC** SVOC** BOD 5 TSS Phenolics pH	200 400 0.375 5> and <10	NA NA ND <13.3 64 0.0626 6.6										

* Semi-annual sampling of PAS leachate discharge conducted in accordance with SIU Wastewater Discharge Permit No.6-2017-18.

** Analytes included for permit pollutant analysis performed every three years

*** Sample taken by City of Oswego

Analyte values in bold exceed limit

ATTACHMENT I

And Constraints of the second se			ра	S Site					
		C)swego	, New Y	York				
		Lea	<u>chate D</u>	ischarg	e Form				
Date: <u>4-4</u>	1-17	· .			Time		8:30		
Field Technici	an <u>MART</u>	N Koenn	recher		Weat	her C	Conditions]	RAN SHOWER	<u>s</u> 48
			Pre-Di	scharg	e Well Pi	ump.	ing		
WellPump									
	Pump Star Time	it Pum	p Stop ime	I Ele	änk. vation	Flo	w Rate (est)	Gallons Pumped (es	t)
LCW-1	8:40	10:0	0	4	3.5"	_/;	25.8 GPM	10,065	-
LCW-2	840		00		<u>.</u>				
LCW-3 LCW-4	8:40	8;	50					<u> </u>	
<u>_</u>	<u>8,40</u>	/0;	00				Tota	· · · · · · · · · · · · · · · · · · ·	
STHRI	- 10,5 ["]	5TOP 4	3,5″	<u>ح</u> المحادثة	<u>THAT P</u>	7mp	<u>@10:00</u> î	RIMEBA - 1	p;25
		Leach	iate Dis	charge	Pumpin	ig(M	lonthly)		
Discharge #	- Start	Stop Time	pH	Temp	Totaliz Flow To	er tal	Totalizer Elow	Gallons Discharge	
					(Starf))	Total (End)		and a second second second second second second second second second second second second second second second
Discharge #1	10:25	12:25	6,8	450	800a	35	810240	10,005	
Discharge #2				· · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			2
Iotal									
		Leachate	Discha	irge Sa	mpling (Sem	i-Annual	Ø	
	Date	Sample	San	nple	Sample		E Hq	Temperature	
Sample #1		Location		<u>u116</u>				andrig find that will be star.	<u></u>
Sample #2			+						1



O'BRIEN & GERE

Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego) Oswego, NY

Date: 5-3-17

Time: 9:10

Field Technician MARTIN KOENNECKL

Weather Conditions $ARCAST 44^{\circ}$

Beginning Leachate	Pre-Discharge Well Pumping										
Hold Tank Elevation (Inches)	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	9.15	INTERMITTEN 13:00		124.5						
	LCW-2	9:15	13,00								
	LCW-3	9:15	9:30								
	LCW-4	9:15	3.00								

10,5"-35"=24.5"x305=7472,5 gal 60min = 7472.5 = 60 = 124,5 6PM

	Ма	onthly Le	eachate D	ischarge l	Pumping (т	o the City of Osw	ego)
Discharge #	Start Time	Stop Time	рН	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge
Discharge #1	10,35	14:30	6.80	46°	810240	830245	20,005
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum			
STAR PUMP 10:15	85	25mm	0	8. ^{1/}			-

Semi-Annual Leachate Discharge Sampling (Per the City of Oswego Permit)

	Date	Sample Location	Sample Volume	Sample Time	рН	Temperature
Sample #1						



Leachate Disposal Checklist

Former Pollution Abatement Services (PAS Oswego) Oswego, NY

Date: 6-8-17

Time: 7:45

Field Technician MARTIN Koennecke

Weather Conditions Sunny 57°

Beginning Leachate		Pre-Discharge Well Pumping										
Hold Tank Elevation (Inches)	Pumping Well #	Pump Start Time	Pump Stop Time	Ending Tank Elevation	Flow Rate (est.)	Est: Leachate Pumped Into Holding Tank (Gallons)						
12"	LCW-1	7:45	920	48,5	117 684	RA 1/130						
	LCW-2	7:45	9:20	RESTHATE	D Pumps.	Intra withaly						
······································	LCW-3	7:45	8:00	111 10	:00	· /						
·	LCW-4	7:45	. 9:20									
L	. l. · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		,	Total	20100						

	Montniy Leachate Discharge Pumping (To the City of Oswego)											
Discharge #	Start Time	Stop Time	рН	Temp	Totalizer Flow Total (Start)	Totalizer Flow Total (End)	Gallons Discharge					
Discharge #1	930	13:25	6.8	53°	830245	850250	20,005					
Pump Info	Flow Rate (GPM)	Prime Time	Pump Pressure	Pump Vacuum								
	85	20 mil	0	8								

	Date	Sample Location	Sample Volume	Sample Time	∖рН	Temperature
Sample #1						

START PUMp-9:10 PRIMED @ - 9.30

ATTACHMENT III

Future Report
FUTURE REPORT

2017 - 2018



ANNUAL PROGRESS REPORT – Future

Operation, Maintenance and Long-term Monitoring Activities

PROJECT NAME: Pollution Abatement Services Site Oswego, New York

PERIOD COVERED: JULY 2017 – JUNE 2018

ACTIONS PLANNED FOR THE YEAR

- Leachate removal activities will be performed during the period July 2017 through June 2018 at the PAS Oswego Site in accordance with the Operation, Maintenance and Long-term Monitoring (OM&M) Activities Plan (BBL, 1998 revised July 2012) (Work Plan). The OM&M activities will include pumping approximately 20,000 gallons per month from May through October, and 10,000 gallons per month for the winter and spring months November through April.
- The leachate will be discharged to the Oswego New York Eastside Wastewater Treatment Plant (Oswego WWTP) under an approved permit consistent with the schedule presented below. However, the City of Auburn New York Wastewater Treatment Plant will continue to be retained as an alternate leachate treatment and disposal facility.
- Additional leachate sampling will be conducted as needed for treatment and disposal at the Oswego Wastewater Treatment Plant under the approved permit.
- Quarterly ground-water elevation monitoring is scheduled to be conducted on August 7, 2017, November 6, 2017, February 5, 2018 and May 7, 2018.
- Site maintenance activities will be conducted along with other monitoring and removal activities. Maintenance activities include cap vegetation control and inspection and maintenance of the storage shed, spill control materials and the perimeter fence. Snow removal will be performed on an as needed basis throughout the winter months. These activities will be performed in accordance with the approved Work Plan.
- Semi-annual groundwater and leachate quality sampling is scheduled to be conducted on November 6, 2017 and May 7, 2018. Only chlorobenzene was observed at MW-22 and LR-6 in previous events and these results were at or near detection limits. Therefore, MW-22 and LR-6 will be sampled in the fall of 2017 to provide data for the next 5 year review and at 5 year intervals thereafter. We propose to sample LR-8, M-21 and OD-3 for the semi-annual sampling events over the 2017-2018 period.
- The Institutional Control Implementation Plan (ICIP) includes the inspection requirements for the period following the execution and recording of the Easement, which were documented in the approved Remedial Action Completion Report. It states that following implementation of institutional controls on the Industrial Precision Products Property, the Site will be inspected on an annual basis to determine whether any intrusive activities have occurred. In addition, building and property records will be reviewed to ascertain whether or not any filings have been made for such activities. The ICIP provides for an annual report summarizing the findings of the inspection and record review to be prepared, along with a certification confirming that operation and maintenance activities will continue, and that the annual report would be included in the annual OM&M progress report to be submitted to EPA in July of each year.



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

П

GROUND-WATER REMOVAL EVENT SCHEDULE 2017/2018							
	July 2017 Removal Events		August 2017 Removal Events		September 2017 Removal Events		
	First Event		First Event		First Event		
Removal	July 10		Aug 7		Sep 4		

GROUND-WATER REMOVAL EVENT SCHEDULE 2017/2018							
	October 2017 Removal Events		November 2017 Removal Events		December 2017 Removal Events		
	First Event		First Event		First Event		
Removal	Oct 2		Nov 6		Dec 4		

GROUND-WATER REMOVAL EVENT SCHEDULE 2017/2018							
	January 2018 Removal Events		February 2018 Removal Events		March 2018 Removal Events		
	First Event		First Event		First Event		
Removal	Jan 8		Feb 12		Mar 5		

GROUND-WATER REMOVAL EVENT SCHEDULE 2017/2018							
	April 2018 Removal Events		May 2018 Removal Events		June 2018 Removal Events		
	First Event		First Event		First Event		
Removal	Apr 2		May 7		June 4		