RAMBOLL

ENVIRONMENT
& HEALTH

Mr. Joel Paradise
Niagara Falls Water Board
5815 Buffalo Avenue
Niagara Falls, New York 14304

Significant Industrial User (SIU) Permit No. 61 for Forest Glen Site – Quarterly Monitoring Report (Period ending November 30, 2019)

Date December 12, 2019

Dear Mr. Paradise:

This quarterly monitoring report for the period between September 1, 2019 and November 30, 2019 is provided for the groundwater recovery and discharge system (the "system") constructed at the Forest Glen Superfund Site in Niagara Falls, New York. The Goodyear Tire & Rubber Company (Goodyear) owns and operates the system, as agent for the Forest Glen Site Trust, under the Significant Industrial User (SIU) Permit No. 61 issued by the Niagara Falls Water Board (NFWB) on September 5, 2018.

Ramboll
333 West Washington Street
Syracuse, NY 13202
USA

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The groundwater recovery system comprises the following:

- Three groundwater recovery wells (RW-1, RW-2 and RW-3) located at the Forest Glen Site.
- An off-site electrical enclosure at Regulator No. 6C, on Hyde Park Avenue in Niagara Falls, housing a power disconnect switch, overflow level sensor, and remote monitoring unit (RMU).

During the quarter between September 1, 2019 and November 30, 2019, a total of 3,525,212 gallons of groundwater were recovered and discharged to the sanitary sewer for treatment at the Niagara Falls publicly owned treatment works (POTW), and in accordance with SIU Permit No. 61 Goodyear conducted self-monitoring of the flow. The monitoring included collection of four separate grab samples from September 23 to September 24, 2019 from recovery wells RW-1, RW-2 and RW-3.

The four grab samples collected from the recovery wells were delivered to Test America, Inc. in Amherst, NY where they were composited and analyzed for volatile organic compounds (VOCs) including vinyl chloride, 1,1-dichloroethylene, 1,2-dichloroethylene (cis and trans), 1,1-dichloroethane, trichloroethylene, tetrachloroethylene and 1,1,1-trichloroethane using USEPA method 624. The results of the analyses are summarized in the attached Self-Monitoring Report, which presents the concentration for each well based on the composite samples. The Test America laboratory reports are provided in the attached Self-Monitoring Report.

As required by the SIU permit, the results of the self-monitoring were used to calculate daily loading to the POTW. Based on the results, there were no permit limit violations for the quarter and the loads to the POTW were below the established limits.

Per section E3c of SIU Permit No. 61, a manual check of the Regulator 6C alarm system was conducted on September 26, 2019 and found to be operational.

If you have any questions concerning this report, please do not hesitate to call me at (315) 956-6836.

Yours sincerely,

James Cavotta
PROJECT MANAGER-1
657-E&H PM RESOURCES

D 315-956-6836
M 315-575-0729
james.cavotta@ramboll.com

NIAGARA FALLS WATER BOARD
WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF-MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 61 QUARTER November 30, 2019

INDUSTRY NAME: The Goodyear Tire & Rubber Company

Pursuant to federal pretreatment reporting requirements and the Niagara Falls Water Board Regulations Part 1960, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi-Annual	-	by February 28th and
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on page two (2) of the User Permit.

SELF-MONITORING REPORT
Significant Industrial Users (SIUs)

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicates compliance. All violations noted should be brought to the Niagara Falls Water Board – Wastewater Facilities attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then **"NO VIOLATIONS"** should appear on the report.

Pursuant to 40 CFR Part 403.12g of the Federal Standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the Niagara Falls Water Board within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12g all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement:

> 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.

Signed: Jeffrey A Simon

Title: Snr Manager, Global Remediation

Date: November 1, 2019

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: ⟶ 9/24/19						
24-HOUR FLOW IN MGD *						0.039
BENZENE						
CARBON TETRACHLORIDE						
CHLORODIBROMOMETHANE						
MONOCHLOROBENZENE						
DICHLOROBROMOMETHANE						
CHLOROFORM						
1,1 – DICHLOROETHYLENE	5.0 U	5.0 U	5.0 U			
1,2 – DICHLOROETHYLENE	32	3.7 J	27			
BROMOFORM						
ETHYLBENZENE						
1,1,2,2 – TETRACHLOROETHANE						
TETRACHLOROETHYLENE	5.0 U	5.0 U	0.68 J			
TOLUENE						
1,1,1 – TRICHLOROETHANE	1.7 J	5.0 U	5.0 U			
1,1,2 – TRICHLOROETHANE						
TRICHLOROETHYLENE	0.71 J	5.0 U	5.0 U			
METHYLENE CHLORIDE						
MONOCHLOROTOLUENES						
MONOCHLOROBENZOTRIFLURIDE						
VINYL CHLORIDE	10	3.1 J	6.1			
TETRAHYDRAFURAN						
XYLENE						

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: ⟶ 9/24/19						
24-HOUR FLOW IN MGD						0.039
DIMETHYLPHTHALATE						
BUTYL BENZYL PHTHALATE						
Di-N-BUTHY PHTHALATE						
Di-N-OCTYL PHTHALATE						
DIETHYL PHTHALATE						
NITROSODIPHENYLAMINE						
DICHLOROBENZENES						
DICHLOROTOLUENE						
ACENAPHTHENE						
FLUORANTHENE						
CHRYSENE						
NAPHTHALENE						
BENZO (a) ANTHRACENE						
PYRENE						
TRICHLOROBENZENE						
TRICHLOROTOLUENE						
HEXACHLOROBUTADIENE						
TETRACHLOROBENZENE						
HEXACHLOROCYCLOPENTADIENE						
HEXCHLOROBENZENE						
DICHLOROBENZOTRIFLUORIDE						

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: → 9/24/19						
24-HOUR FLOW IN MGD						0.039
PHENANTHRENE						
MONOCHLOROPHENOL						
DICHLOROPHENOL						
MONOCHLOROCRESOL						
TRICHLOROPHENOL						
PENTACHLOROPHENOL						
HEXACHLOROCYCLOHEXANES						
PCB's						
ENDOSULFAN I +						
ENDOSULFAN II +						
ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR +						
HEPTACHLOR EPOXIDE						

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: → 9/24/19						
24-HOUR FLOW IN MGD *						0.039
1,2,4 – TRICHLOROBENZENE						
1,2 – DICHLOROETHANE						
1,1,1 – TRICHLOROETHANE	1.7 J	5.0 U	5.0 U			
HEXACHLOROETHANE						
1,1 – DICHLOROETHANE	3.6 J	0.74 J	5.0 U			
1,1,2 – TRICHLOROETHANE						
CHLOROETHANE						
1,2 – DICHLOROBENZENE						
1,3 – DICHLOROBENZENE						
1,4 – DICHLOROBENZENE						
1,1 DICHLOROETHYLENE	5.0 U	5.0 U	5.0 U			
1,2 – TRANS-DICHLOROETHYLENE						
1,3 – DICHLOROPROPYLENE						
METHYL CHLORIDE						
NITROBENZENE						
2 – NITROPHENOL						
4 – NITROPHENOL						
4,6 DINITRO-O-CRESOL						
BIS [2 – ETHYHEXYL] PHTHALATE						
ANTHRACENE						
DIETHYL PHTHALATE						
FLUORENE						

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: → 9/24/19						
24-HOUR FLOW IN MGD *						0.039
1,2 - DICHLOROPROPANE						
VINYL CHLORIDE	10	3.1 J	6.1			
ACENAPHTHENE						
BENZENE						
CARBON TETRACHLORIDE						
CHLOROBENZENE						
HEXACHLOROBENZENE						
CHLOROFORM						
ETHYLBENZENE						
FLUORANTHENE						
METHYLENE CHLORIDE						
HEXACHLOROBUTADIEN						
NAPHTHALENE DI – N – BUTHYL PHTHALATE						
DIMETHYL PHTHALATE						
PHENANTHRENE						
PYRENE						
TRACHLOROETHYLENE						
TOLUENE						
TRICHLOROETHYLENE	0.71 J	5.0 U	5.0 U			
TOTAL CYANIDE						
TOTAL LEAD						
TOTAL ZINC						

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: **The Goodyear Tire & Rubber Company**

SIU PERMIT NO.: **61**

SAMPLE LOCATION: **Forest Glen Site**

	RESULTS RW-1 ug/ℓ	/ RW-2 ug/ℓ	RESULTS RW-3 ug/ℓ	/ Combined lbs/day	ANNUAL AVERAGE ug/ℓ	ANNUAL AVERAGE lbs/day
DATE SAMPLED: → 9/24/19						
24-HOUR FLOW IN MGD						0.039
TOTAL SUSPENDED SOLIDS						
SOLUABLE ORGANIC CARBON						
TOTAL PHOSPHOROUS						
TOTAL PHENOL						
OIL and GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
TOTAL SODIUM CHLORIDE						
TOTAL AMMONIA						
DIETHYLENE GLYCOL						

PART II

COMPLIANCE MONITORING

The Goodyear Tire & Rubber Company

SIU NAME: _____

PERMIT NO.: **61** _____

NO PERMIT VIOLATIONS

VIOLATION PARAMETER	DATE	FLOW [MGD]	SAMPLE POINT LOCATION	ACTUAL* DISCHARGE	PERMIT LIMIT	TYPE** LIMIT VIOLATED

NOTE:

* - Actual discharge – list actual analytical results and appropriate units.

** - Type Limit Violated – List Type:

A.A. = Annual Average

D.M. = Daily Maximum

L.L. = Local Limits (Regulation 1960.5)

QUARTERLY SELF-MONITORING SUMMARY
GROUNDWATER RECOVERY SYSTEM EFFLUENT

FOREST GLEN SUPERFUND SITE
NIAGARA FALLS, NEW YORK

		RW-1 volume 14,976 gallons		RW-2 volume 17,568 gallons		RW-3 volume 6,768 gallons	Total volume 39,312 gallons	
Analyte	9/24/2019	Contribution to loading to POTW	9/24/2019	Contribution to loading to POTW	9/24/2019	Contribution to loading to POTW	Total loading to POTW	
1,1,1-trichloroethane	1.7 J	0.0002 lbs/day	5 U	0 lbs/day	5 U	0 lbs/day	0.0002 lbs/day	0.6476 ug/l
1,1-dichloroethane	3.6 J	0.0004 lbs/day	0.74 J	0.0001 lbs/day	5 U	0 lbs/day	0.0006 lbs/day	1.7021 ug/l
1,1-dichloroethylene	5 U	0 lbs/day	5 U	0 lbs/day	5 U	0 lbs/day	0 lbs/day	0.0000 ug/l
cis-1,2-dichloroethylene	32	0.0040 lbs/day	3.7 J	0.0005 lbs/day	27	0.0015 lbs/day	0.0061 lbs/day	18.4923 ug/l
tetrachloroethylene	5 U	0 lbs/day	5 U	0 lbs/day	0.68 J	0.00004 lbs/day	0 lbs/day	0.1171 ug/l
trans-1,2-dichloroethylene	5 U	0 lbs/day	5 U	0 lbs/day	5 U	0 lbs/day	0 lbs/day	0.0000 ug/l
trichloroethylene	0.71 J	0.0001 lbs/day	5 U	0 lbs/day	5 U	0 lbs/day	0.0001 lbs/day	0.2705 ug/l
vinyl chloride	10	0.0012 lbs/day	3.1 J	0.0005 lbs/day	6.1	0.0003 lbs/day	0.0020 lbs/day	6.2451 ug/l

Notes
1. Concentrations reported in units of ug/l
2. U - undetected, with detection limit identified
3. J - estimated value

	11/28/2018	3/19/2019	6/20/2019	9/24/2019	Average
Analyte	ug/l	ug/l	ug/l	ug/l	ug/l
1,1,1-trichloroethane	0.9849	0.6142	0	0.6476	0.562
1,1-dichloroethane	1.9854	1.0175	1.6113	1.7021	1.579
1,1-dichloroethylene	0	0	0	0	0.000
cis-1,2-dichloroethylene	15.2220	9.2630	23.4716	18.4923	16.612
tetrachloroethylene	0	0	0	0.1171	0.029
trans-1,2-dichloroethylene	0	0	0	0	0.000
trichloroethylene	0.5200	1.3175	1.3681	0.2705	0.869
vinyl chloride	4.7565	2.4180	5.0950	6.2451	4.629

Analyte	lb/day	lb/day	lb/day	lb/day	lbs/day
1,1,1-trichloroethane	0.0003	0.0002	0	0.0002	0.0002
1,1-dichloroethane	0.0006	0.0003	0.0003	0.0006	0.0005
1,1-dichloroethylene	0	0	0	0	0.0000
cis-1,2-dichloroethylene	0.0045	0.0023	0.004	0.0061	0.0042
tetrachloroethylene	0	0	0	0	0.0000
trans-1,2-dichloroethylene	0	0	0	0	0.0000
trichloroethylene	0	0.0003	0.0002	0.0001	0.0002
vinyl chloride	0.0014	0.0006	0.0009	0.002	0.0012

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-159659-1
Client Project/Site: Forest Glen Discharge Analysis

For:
O'Brien & Gere Inc of North America
333 West Washington St.
PO BOX 4873
East Syracuse, New York 13221

Attn: Mr. David J Carnevale

Authorized for release by:
9/28/2019 1:37:37 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II
(716)504-9838
john.schove@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-159659-1
Project/Site: Forest Glen Discharge Analysis

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-159659-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-159659-1

Receipt
The samples were received on 9/24/2019 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Client Sample ID: RW-1 COMPOSITE — Lab Sample ID: 480-159659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.7	J	5.0	0.39	ug/L	1		624.1	Total/NA
1,1-Dichloroethane	3.6	J	5.0	0.59	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethylene	32		5.0	0.57	ug/L	1		624.1	Total/NA
Trichloroethylene	0.71	J	5.0	0.60	ug/L	1		624.1	Total/NA
Vinyl chloride	10		5.0	0.75	ug/L	1		624.1	Total/NA

Client Sample ID: RW-2 COMPOSITE — Lab Sample ID: 480-159659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.74	J	5.0	0.59	ug/L	1		624.1	Total/NA
cis-1,2-Dichloroethylene	3.7	J	5.0	0.57	ug/L	1		624.1	Total/NA
Vinyl chloride	3.1	J	5.0	0.75	ug/L	1		624.1	Total/NA

Client Sample ID: RW-3 COMPOSITE — Lab Sample ID: 480-159659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethylene	27		5.0	0.57	ug/L	1		624.1	Total/NA
Tetrachloroethylene	0.68	J	5.0	0.34	ug/L	1		624.1	Total/NA
Vinyl chloride	6.1		5.0	0.75	ug/L	1		624.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Client Sample ID: RW-1 COMPOSITE

Lab Sample ID: 480-159659-1

Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.7**	**J**	5.0	0.39	ug/L			09/25/19 13:25	1
1,1-Dichloroethane	**3.6**	**J**	5.0	0.59	ug/L			09/25/19 13:25	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			09/25/19 13:25	1
cis-1,2-Dichloroethylene	**32**		5.0	0.57	ug/L			09/25/19 13:25	1
Tetrachloroethylene	ND		5.0	0.34	ug/L			09/25/19 13:25	1
trans-1,2-Dichloroethylene	ND		5.0	0.59	ug/L			09/25/19 13:25	1
Trichloroethylene	**0.71**	**J**	5.0	0.60	ug/L			09/25/19 13:25	1
Vinyl chloride	**10**		5.0	0.75	ug/L			09/25/19 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*68 - 130*		*09/25/19 13:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*09/25/19 13:25*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*09/25/19 13:25*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*09/25/19 13:25*	*1*

Client Sample ID: RW-2 COMPOSITE

Lab Sample ID: 480-159659-2

Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/25/19 13:48	1
1,1-Dichloroethane	**0.74**	**J**	5.0	0.59	ug/L			09/25/19 13:48	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			09/25/19 13:48	1
cis-1,2-Dichloroethylene	**3.7**	**J**	5.0	0.57	ug/L			09/25/19 13:48	1
Tetrachloroethylene	ND		5.0	0.34	ug/L			09/25/19 13:48	1
trans-1,2-Dichloroethylene	ND		5.0	0.59	ug/L			09/25/19 13:48	1
Trichloroethylene	ND		5.0	0.60	ug/L			09/25/19 13:48	1
Vinyl chloride	**3.1**	**J**	5.0	0.75	ug/L			09/25/19 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*09/25/19 13:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*09/25/19 13:48*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*09/25/19 13:48*	*1*
Toluene-d8 (Surr)	*94*		*77 - 120*		*09/25/19 13:48*	*1*

Client Sample ID: RW-3 COMPOSITE

Lab Sample ID: 480-159659-3

Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/25/19 14:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/25/19 14:12	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			09/25/19 14:12	1
cis-1,2-Dichloroethylene	**27**		5.0	0.57	ug/L			09/25/19 14:12	1
Tetrachloroethylene	**0.68**	**J**	5.0	0.34	ug/L			09/25/19 14:12	1
trans-1,2-Dichloroethylene	ND		5.0	0.59	ug/L			09/25/19 14:12	1
Trichloroethylene	ND		5.0	0.60	ug/L			09/25/19 14:12	1
Vinyl chloride	**6.1**		5.0	0.75	ug/L			09/25/19 14:12	1

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Client Sample ID: RW-3 COMPOSITE
Date Collected: 09/24/19 09:00
Date Received: 09/24/19 17:20

Lab Sample ID: 480-159659-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		68 - 130		09/25/19 14:12	1
4-Bromofluorobenzene (Surr)	98		76 - 123		09/25/19 14:12	1
Dibromofluoromethane (Surr)	99		75 - 123		09/25/19 14:12	1
Toluene-d8 (Surr)	94		77 - 120		09/25/19 14:12	1

Surrogate Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(75-123)	(77-120)
480-159659-1	RW-1 COMPOSITE	91	98	97	96
480-159659-2	RW-2 COMPOSITE	95	98	98	94
480-159659-3	RW-3 COMPOSITE	91	98	99	94
LCS 480-493919/5	Lab Control Sample	89	97	96	96
MB 480-493919/7	Method Blank	93	99	95	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-493919/7
Matrix: Water
Analysis Batch: 493919

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/25/19 11:09	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/25/19 11:09	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			09/25/19 11:09	1
cis-1,2-Dichloroethylene	ND		5.0	0.57	ug/L			09/25/19 11:09	1
Tetrachloroethylene	ND		5.0	0.34	ug/L			09/25/19 11:09	1
trans-1,2-Dichloroethylene	ND		5.0	0.59	ug/L			09/25/19 11:09	1
Trichloroethylene	ND		5.0	0.60	ug/L			09/25/19 11:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/25/19 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*09/25/19 11:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*09/25/19 11:09*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*09/25/19 11:09*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*09/25/19 11:09*	*1*

Lab Sample ID: LCS 480-493919/5
Matrix: Water
Analysis Batch: 493919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	52 - 162
1,1-Dichloroethane	20.0	20.0		ug/L		100	59 - 155
1,1-Dichloroethylene	20.0	19.5		ug/L		97	1 - 234
Tetrachloroethylene	20.0	19.4		ug/L		97	64 - 148
trans-1,2-Dichloroethylene	20.0	20.1		ug/L		101	54 - 156
Trichloroethylene	20.0	19.6		ug/L		98	71 - 157
Vinyl chloride	20.0	19.8		ug/L		99	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*68 - 130*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*
Dibromofluoromethane (Surr)	*96*		*75 - 123*
Toluene-d8 (Surr)	*96*		*77 - 120*

QC Association Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

GC/MS VOA

Analysis Batch: 493919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159659-1	RW-1 COMPOSITE	Total/NA	Water	624.1	
480-159659-2	RW-2 COMPOSITE	Total/NA	Water	624.1	
480-159659-3	RW-3 COMPOSITE	Total/NA	Water	624.1	
MB 480-493919/7	Method Blank	Total/NA	Water	624.1	
LCS 480-493919/5	Lab Control Sample	Total/NA	Water	624.1	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-159659-1
Project/Site: Forest Glen Discharge Analysis

Client Sample ID: RW-1 COMPOSITE
Lab Sample ID: 480-159659-1
Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	493919	09/25/19 13:25	S1V	TAL BUF

Client Sample ID: RW-2 COMPOSITE
Lab Sample ID: 480-159659-2
Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	493919	09/25/19 13:48	S1V	TAL BUF

Client Sample ID: RW-3 COMPOSITE
Lab Sample ID: 480-159659-3
Date Collected: 09/24/19 09:00
Matrix: Water
Date Received: 09/24/19 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	493919	09/25/19 14:12	S1V	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-159659-1
Project/Site: Forest Glen Discharge Analysis

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

Method Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: O'Brien & Gere Inc of North America
Project/Site: Forest Glen Discharge Analysis

Job ID: 480-159659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-159659-1	RW-1 COMPOSITE	Water	09/24/19 09:00	09/24/19 17:20	
480-159659-2	RW-2 COMPOSITE	Water	09/24/19 09:00	09/24/19 17:20	
480-159659-3	RW-3 COMPOSITE	Water	09/24/19 09:00	09/24/19 17:20	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-159659 Chain of Custody

eurofins | Environment Testing TestAmerica

Client Information	Sampler: MARTIN KOERNACKI	Lab PM: Schove, John R	COC No: 480-135842-14318.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com	Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America			Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	**Analysis Requested**	**Preservation Codes:** A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 91802246		
Email: Yuri.Veliz@obg.com	WO #:		
Project Name: Forest Glen Discharge Analysis	Project #: 48002806		
Site:	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC - Volatile Organic Compounds	Total Number of containers	Special Instructions/Note:
			Preservation Code				A		
RW-1 092319	9-23-19	11:15	G	Water			3		
RW-2 092319	9-23-19	11:15	G	Water			3		To Be Composited By LABS
RW-3 092319	9-23-19	11:15	G	Water			3		
RW-1 092319	9-23-19	14:50	G	W			3		
RW-2 092319	9-23-19	1450	G	W			3		
RW-3 092319	9-23-19	1450	G	W			3		
RW-1 092419	9-24-19	7:30	G	W			3		
RW-2 092419	9-24-19	7:30	G	W			3		
RW-3 092419	9-24-19	7:30	G	W			3		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Martin Koernacki	9-24-19 / 1720	OBG		9/24/19 1720	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.6 #1

Ver: 01/16/2019

9/28/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: MARTIN KOENECKE	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-135842-14318.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 2 of 2
Company: O'Brien & Gere Inc of North America				Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 91802246			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Forest Glen Discharge Analysis	Project #: 48002806			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_PREC - Volatile Organic Compounds	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
RW-1 092419	9-24-19	9:00	G	Water			3		
RW-2 092419	9-24-19	9:00	G	Water			3		
RW-3 092419	9-24-19	9:00	G	Water			3		To Be Composited By LABS

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Martin Koenecke	9-24-19 / 17:20	OBG	[illegible]	9/24/19 1720	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6 #1

Ver: 01/16/2019

9/28/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-159659-1

Login Number: 159659

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	