TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-59643-1
TestAmerica Sample Delivery Group: 480-59643
Client Project/Site: GE IRM
Sampling Event: GE IRM Project

For:
O'Brien & Gere Inc of North America
37000 Grand River Ave
Suite 260
Farmington Hills, Michigan 48335

Attn: Mr. Tony Finch

Authorized for release by:
5/20/2014 1:55:24 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

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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.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 10
QC Sample Results 11
QC Association Summary 14
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 480-59643-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-59643-1

Comments
No additional comments.

Receipt
The samples were received on 5/10/2014 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.2º C.

GC/MS VOA
Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: Influent 050914 (480-59643-3), Mixing Tank 050914 (480-59643-4). Elevated reporting limits (RLs) are provided.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Trip Blank — Lab Sample ID: 480-59643-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.51	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: Effluent 050914 — Lab Sample ID: 480-59643-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	11		10	1.3	ug/L	1		8260C	Total/NA
Acetone	7.3	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: Influent 050914 — Lab Sample ID: 480-59643-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	27		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	5.3		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	1.2	J	2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	55		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	8.0		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	120		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	15		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: Mixing Tank 050914 — Lab Sample ID: 480-59643-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	27		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	5.3		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	1.1	J	2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	38		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	5.1		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	100		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	8.7		2.0	1.8	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Trip Blank

Lab Sample ID: 480-59643-1

Date Collected: 05/09/14 00:00
Matrix: Water
Date Received: 05/10/14 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/15/14 05:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/15/14 05:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/15/14 05:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/15/14 05:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/15/14 05:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/15/14 05:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/15/14 05:38	1
2-Hexanone	ND		5.0	1.2	ug/L			05/15/14 05:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/15/14 05:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/15/14 05:38	1
Acetone	ND		10	3.0	ug/L			05/15/14 05:38	1
Benzene	ND		1.0	0.41	ug/L			05/15/14 05:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/15/14 05:38	1
Bromoform	ND		1.0	0.26	ug/L			05/15/14 05:38	1
Bromomethane	ND		1.0	0.69	ug/L			05/15/14 05:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/15/14 05:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/15/14 05:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/15/14 05:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/15/14 05:38	1
Chloroethane	ND		1.0	0.32	ug/L			05/15/14 05:38	1
Chloroform	**0.51**	**J**	1.0	0.34	ug/L			05/15/14 05:38	1
Chloromethane	ND		1.0	0.35	ug/L			05/15/14 05:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/15/14 05:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/15/14 05:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/15/14 05:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/15/14 05:38	1
Styrene	ND		1.0	0.73	ug/L			05/15/14 05:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/15/14 05:38	1
Toluene	ND		1.0	0.51	ug/L			05/15/14 05:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/15/14 05:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/15/14 05:38	1
Trichloroethene	ND		1.0	0.46	ug/L			05/15/14 05:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/15/14 05:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/15/14 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*05/15/14 05:38*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/15/14 05:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/15/14 05:38*	*1*

Client Sample Results

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Effluent 050914

Lab Sample ID: 480-59643-2

Date Collected: 05/09/14 06:35
Matrix: Water
Date Received: 05/10/14 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/15/14 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/15/14 06:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/15/14 06:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/15/14 06:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/15/14 06:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/15/14 06:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/15/14 06:01	1
2-Hexanone	ND		5.0	1.2	ug/L			05/15/14 06:01	1
2-Butanone (MEK)	**11**		10	1.3	ug/L			05/15/14 06:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/15/14 06:01	1
Acetone	**7.3**	**J**	10	3.0	ug/L			05/15/14 06:01	1
Benzene	ND		1.0	0.41	ug/L			05/15/14 06:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/15/14 06:01	1
Bromoform	ND		1.0	0.26	ug/L			05/15/14 06:01	1
Bromomethane	ND		1.0	0.69	ug/L			05/15/14 06:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/15/14 06:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/15/14 06:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/15/14 06:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/15/14 06:01	1
Chloroethane	ND		1.0	0.32	ug/L			05/15/14 06:01	1
Chloroform	ND		1.0	0.34	ug/L			05/15/14 06:01	1
Chloromethane	ND		1.0	0.35	ug/L			05/15/14 06:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/15/14 06:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/15/14 06:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/15/14 06:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/15/14 06:01	1
Styrene	ND		1.0	0.73	ug/L			05/15/14 06:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/15/14 06:01	1
Toluene	ND		1.0	0.51	ug/L			05/15/14 06:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/15/14 06:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/15/14 06:01	1
Trichloroethene	ND		1.0	0.46	ug/L			05/15/14 06:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/15/14 06:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/15/14 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*05/15/14 06:01*	*1*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/15/14 06:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*05/15/14 06:01*	*1*

Client Sample Results

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Influent 050914

Lab Sample ID: 480-59643-3

Date Collected: 05/09/14 06:45
Matrix: Water
Date Received: 05/10/14 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**27**		2.0	1.6	ug/L			05/15/14 06:25	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			05/15/14 06:25	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			05/15/14 06:25	2
1,1-Dichloroethane	**5.3**		2.0	0.76	ug/L			05/15/14 06:25	2
1,1-Dichloroethene	**1.2**	**J**	2.0	0.58	ug/L			05/15/14 06:25	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			05/15/14 06:25	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			05/15/14 06:25	2
2-Hexanone	ND		10	2.5	ug/L			05/15/14 06:25	2
2-Butanone (MEK)	ND		20	2.6	ug/L			05/15/14 06:25	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			05/15/14 06:25	2
Acetone	ND		20	6.0	ug/L			05/15/14 06:25	2
Benzene	ND		2.0	0.82	ug/L			05/15/14 06:25	2
Bromodichloromethane	ND		2.0	0.78	ug/L			05/15/14 06:25	2
Bromoform	ND		2.0	0.52	ug/L			05/15/14 06:25	2
Bromomethane	ND		2.0	1.4	ug/L			05/15/14 06:25	2
Carbon disulfide	ND		2.0	0.38	ug/L			05/15/14 06:25	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			05/15/14 06:25	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/15/14 06:25	2
Dibromochloromethane	ND		2.0	0.64	ug/L			05/15/14 06:25	2
Chloroethane	ND		2.0	0.64	ug/L			05/15/14 06:25	2
Chloroform	ND		2.0	0.68	ug/L			05/15/14 06:25	2
Chloromethane	ND		2.0	0.70	ug/L			05/15/14 06:25	2
cis-1,2-Dichloroethene	**55**		2.0	1.6	ug/L			05/15/14 06:25	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			05/15/14 06:25	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/15/14 06:25	2
Methylene Chloride	ND		2.0	0.88	ug/L			05/15/14 06:25	2
Styrene	ND		2.0	1.5	ug/L			05/15/14 06:25	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/15/14 06:25	2
Toluene	ND		2.0	1.0	ug/L			05/15/14 06:25	2
trans-1,2-Dichloroethene	**8.0**		2.0	1.8	ug/L			05/15/14 06:25	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			05/15/14 06:25	2
Trichloroethene	**120**		2.0	0.92	ug/L			05/15/14 06:25	2
Vinyl chloride	**15**		2.0	1.8	ug/L			05/15/14 06:25	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/15/14 06:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*05/15/14 06:25*	*2*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/15/14 06:25*	*2*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/15/14 06:25*	*2*

Client Sample Results

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Mixing Tank 050914

Lab Sample ID: 480-59643-4

Date Collected: 05/09/14 06:40
Matrix: Water
Date Received: 05/10/14 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**27**		2.0	1.6	ug/L			05/15/14 06:49	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			05/15/14 06:49	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			05/15/14 06:49	2
1,1-Dichloroethane	**5.3**		2.0	0.76	ug/L			05/15/14 06:49	2
1,1-Dichloroethene	**1.1**	**J**	2.0	0.58	ug/L			05/15/14 06:49	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			05/15/14 06:49	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			05/15/14 06:49	2
2-Hexanone	ND		10	2.5	ug/L			05/15/14 06:49	2
2-Butanone (MEK)	ND		20	2.6	ug/L			05/15/14 06:49	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			05/15/14 06:49	2
Acetone	ND		20	6.0	ug/L			05/15/14 06:49	2
Benzene	ND		2.0	0.82	ug/L			05/15/14 06:49	2
Bromodichloromethane	ND		2.0	0.78	ug/L			05/15/14 06:49	2
Bromoform	ND		2.0	0.52	ug/L			05/15/14 06:49	2
Bromomethane	ND		2.0	1.4	ug/L			05/15/14 06:49	2
Carbon disulfide	ND		2.0	0.38	ug/L			05/15/14 06:49	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			05/15/14 06:49	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/15/14 06:49	2
Dibromochloromethane	ND		2.0	0.64	ug/L			05/15/14 06:49	2
Chloroethane	ND		2.0	0.64	ug/L			05/15/14 06:49	2
Chloroform	ND		2.0	0.68	ug/L			05/15/14 06:49	2
Chloromethane	ND		2.0	0.70	ug/L			05/15/14 06:49	2
cis-1,2-Dichloroethene	**38**		2.0	1.6	ug/L			05/15/14 06:49	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			05/15/14 06:49	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/15/14 06:49	2
Methylene Chloride	ND		2.0	0.88	ug/L			05/15/14 06:49	2
Styrene	ND		2.0	1.5	ug/L			05/15/14 06:49	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/15/14 06:49	2
Toluene	ND		2.0	1.0	ug/L			05/15/14 06:49	2
trans-1,2-Dichloroethene	**5.1**		2.0	1.8	ug/L			05/15/14 06:49	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			05/15/14 06:49	2
Trichloroethene	**100**		2.0	0.92	ug/L			05/15/14 06:49	2
Vinyl chloride	**8.7**		2.0	1.8	ug/L			05/15/14 06:49	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/15/14 06:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*05/15/14 06:49*	*2*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/15/14 06:49*	*2*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/15/14 06:49*	*2*

Surrogate Summary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-59643-1	Trip Blank	107	96	104
480-59643-2	Effluent 050914	108	97	102
480-59643-3	Influent 050914	106	96	103
480-59643-4	Mixing Tank 050914	107	96	103
LCS 480-182121/5	Lab Control Sample	104	97	108
LCSD 480-182121/6	Lab Control Sample Dup	107	98	105
MB 480-182121/8	Method Blank	106	95	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-182121/8
Matrix: Water
Analysis Batch: 182121

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		1.0	0.82	ug/L			05/15/14 01:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/15/14 01:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/15/14 01:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/15/14 01:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/15/14 01:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/15/14 01:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/15/14 01:18	1
2-Hexanone	ND		5.0	1.2	ug/L			05/15/14 01:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/15/14 01:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/15/14 01:18	1
Acetone	ND		10	3.0	ug/L			05/15/14 01:18	1
Benzene	ND		1.0	0.41	ug/L			05/15/14 01:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/15/14 01:18	1
Bromoform	ND		1.0	0.26	ug/L			05/15/14 01:18	1
Bromomethane	ND		1.0	0.69	ug/L			05/15/14 01:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/15/14 01:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/15/14 01:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/15/14 01:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/15/14 01:18	1
Chloroethane	ND		1.0	0.32	ug/L			05/15/14 01:18	1
Chloroform	ND		1.0	0.34	ug/L			05/15/14 01:18	1
Chloromethane	ND		1.0	0.35	ug/L			05/15/14 01:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/15/14 01:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/15/14 01:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/15/14 01:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/15/14 01:18	1
Styrene	ND		1.0	0.73	ug/L			05/15/14 01:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/15/14 01:18	1
Toluene	ND		1.0	0.51	ug/L			05/15/14 01:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/15/14 01:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/15/14 01:18	1
Trichloroethene	ND		1.0	0.46	ug/L			05/15/14 01:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/15/14 01:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/15/14 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*05/15/14 01:18*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*05/15/14 01:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/15/14 01:18*	*1*

Lab Sample ID: LCS 480-182121/5
Matrix: Water
Analysis Batch: 182121

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	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 126
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	76 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-182121/5
Matrix: Water
Analysis Batch: 182121

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.2		ug/L		101	71 - 129
1,1-Dichloroethene	25.0	25.1		ug/L		100	58 - 121
1,2-Dichloroethane	25.0	26.8		ug/L		107	75 - 127
1,2-Dichloropropane	25.0	25.5		ug/L		102	76 - 120
2-Hexanone	125	132		ug/L		106	65 - 127
2-Butanone (MEK)	125	134		ug/L		107	57 - 140
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	24.4		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		103	80 - 122
Bromoform	25.0	26.6		ug/L		106	52 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	23.6		ug/L		95	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		108	72 - 134
Chlorobenzene	25.0	24.9		ug/L		100	72 - 120
Dibromochloromethane	24.5	26.1		ug/L		106	75 - 125
Chloroethane	25.0	24.9		ug/L		99	69 - 136
Chloroform	25.0	24.7		ug/L		99	73 - 127
Chloromethane	25.0	25.2		ug/L		101	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Ethylbenzene	25.0	24.9		ug/L		100	77 - 123
Methylene Chloride	25.0	24.1		ug/L		96	57 - 132
Styrene	25.0	25.7		ug/L		103	70 - 130
Tetrachloroethene	25.0	28.8		ug/L		115	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	72 - 123
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Vinyl chloride	25.0	24.0		ug/L		96	65 - 133
Xylenes, Total	50.0	50.2		ug/L		100	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*
Toluene-d8 (Surr)	*97*		*71 - 126*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*

Lab Sample ID: LCSD 480-182121/6
Matrix: Water
Analysis Batch: 182121

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	73 - 126	0	15
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 126	1	15
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122	1	15
1,1-Dichloroethane	25.0	24.9		ug/L		100	71 - 129	1	20
1,1-Dichloroethene	25.0	25.3		ug/L		101	58 - 121	1	16
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 127	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-182121/6
Matrix: Water
Analysis Batch: 182121

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120	3	20
2-Hexanone	125	129		ug/L		103	65 - 127	2	15
2-Butanone (MEK)	125	132		ug/L		106	57 - 140	1	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	71 - 125	1	35
Acetone	125	127		ug/L		101	56 - 142	1	15
Benzene	25.0	23.8		ug/L		95	71 - 124	3	13
Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122	0	15
Bromoform	25.0	27.7		ug/L		111	52 - 132	4	15
Bromomethane	25.0	24.3		ug/L		97	55 - 144	1	15
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134	0	15
Carbon tetrachloride	25.0	26.6		ug/L		106	72 - 134	1	15
Chlorobenzene	25.0	24.3		ug/L		97	72 - 120	2	25
Dibromochloromethane	24.5	26.0		ug/L		106	75 - 125	0	15
Chloroethane	25.0	24.0		ug/L		96	69 - 136	4	15
Chloroform	25.0	25.0		ug/L		100	73 - 127	1	20
Chloromethane	25.0	23.3		ug/L		93	68 - 124	8	15
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124	0	15
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124	2	15
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123	1	15
Methylene Chloride	25.0	23.5		ug/L		94	57 - 132	2	15
Styrene	25.0	25.0		ug/L		100	70 - 130	3	20
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122	5	20
Toluene	25.0	23.6		ug/L		95	80 - 122	4	15
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127	3	20
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	72 - 123	2	15
Trichloroethene	25.0	24.6		ug/L		98	74 - 123	4	16
Vinyl chloride	25.0	22.9		ug/L		92	65 - 133	5	15
Xylenes, Total	50.0	49.0		ug/L		98	76 - 122	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*
Toluene-d8 (Surr)	*98*		*71 - 126*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*

QC Association Summary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

GC/MS VOA

Analysis Batch: 182121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-59643-1	Trip Blank	Total/NA	Water	8260C	
480-59643-2	Effluent 050914	Total/NA	Water	8260C	
480-59643-3	Influent 050914	Total/NA	Water	8260C	
480-59643-4	Mixing Tank 050914	Total/NA	Water	8260C	
LCS 480-182121/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-182121/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-182121/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Client Sample ID: Trip Blank — Lab Sample ID: 480-59643-1

Date Collected: 05/09/14 00:00 — **Matrix: Water**
Date Received: 05/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	182121	05/15/14 05:38	LCH	TAL BUF

Client Sample ID: Effluent 050914 — Lab Sample ID: 480-59643-2

Date Collected: 05/09/14 06:35 — **Matrix: Water**
Date Received: 05/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	182121	05/15/14 06:01	LCH	TAL BUF

Client Sample ID: Influent 050914 — Lab Sample ID: 480-59643-3

Date Collected: 05/09/14 06:45 — **Matrix: Water**
Date Received: 05/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	182121	05/15/14 06:25	LCH	TAL BUF

Client Sample ID: Mixing Tank 050914 — Lab Sample ID: 480-59643-4

Date Collected: 05/09/14 06:40 — **Matrix: Water**
Date Received: 05/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	182121	05/15/14 06:49	LCH	TAL BUF

Laboratory References:

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

Certification Summary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: O'Brien & Gere Inc of North America
Project/Site: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = 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: GE IRM

TestAmerica Job ID: 480-59643-1
SDG: 480-59643

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-59643-1	Trip Blank	Water	05/09/14 00:00	05/10/14 09:30
480-59643-2	Effluent 050914	Water	05/09/14 06:35	05/10/14 09:30
480-59643-3	Influent 050914	Water	05/09/14 06:45	05/10/14 09:30
480-59643-4	Mixing Tank 050914	Water	05/09/14 06:40	05/10/14 09:30

Chain of Custody Record

TestAmerica Laboratory location: Buffalo

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

480-59643 Chain of Custody

ica
AL TESTING
ories, Inc.

Client Contact			
Company Name: O'Brien & Gere	Client Project Manager: Scott McQueen	Site Contact: Mike McLaughlin	Lab Contact: John [illegible]
Address: 8805 Governors Hill Dr	Telephone: 484-804-7220	Telephone: 513-314-3960	Telephone: 716-504-9838
City/State/Zip: Cincinnati, OH 45249	Email: Scott_McQueen@OBG.com		
Phone: 513-697-2020			
Project Name: GE IRM	Method of Shipment/Carrier:		
Project Number: 51503	Shipping/Tracking No:		
PO# 11511127			

Analysis Turnaround Time (in BUS days)

TAT if different from below _____

☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Analyses: VOCs (8260B)

For lab use only

Walk-in client: ☐
Lab pickup: ☐
Lab sampling: ☐
Job/SDG No:

Sample Identification	Sample Date	SampleTime	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	VOCs (8260B)	Sample Specific Notes / Special Instructions:
Trip Blank				X						2					N	G	X	
Influent 050914	5-9-14	645		X						3					N	G	X	
Mixing Tank 050914	5-9-14	640		X						3					N	G	X	
Effluent 050914	5-9-14	635		X						3					N	G	X	

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

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

Special Instructions/QC Requirements & Comments:
Analyze per QAPP; Level III Data Package

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Mike McLaughlin	OBG	5/9/14 12:35		Testkin	5/9/14 1235
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Testkin	5/9/14 1235			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[illegible]	TA	5/10/14 0930

Temp 4.2 #1

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TAL 0018- 1 (04/10)

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-59643-1
SDG Number: 480-59643

Login Number: 59643
List Number: 1
Creator: Stau, Brandon M

List Source: TestAmerica Buffalo

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.	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	ob&g
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	