



April 7, 2014

**Mr. John C. Grathwol, P.E.**

Remedial Bureau B - Div of Environmental Remediation  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-7016

RE: Former Accurate Die Casting Site  
Fayetteville, New York

FILE: 3902.45845 Corres

Dear Mr. Grathwol:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for the first quarter of 2014 (December 31, 2013 through March 31, 2014). This information is provided as required by the Order on Consent (#A7-0318-94-10). Included are the results of the monitoring activities associated with the SPDES Fact Sheet for the groundwater treatment system.

#### **OPERATION STATUS & ACTIVITIES COMPLETED**

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As of March 31, 2014, a total of 102,894,540 gallons of groundwater has been treated since startup on February 5, 1996. Since December 30, 2013, 942,910 gallons of groundwater have been treated: 235,100 gallons from recovery well RW-1, 703,100 gallons from recovery well RW-2, 4,460 gallons from the sump located outside the northeast corner of the building, and 250 gallons from the collection trench constructed in the former VOC/PAH/PCB Soils Area.

O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed during January, February and March 2014 are summarized in Table 1. The effluent during the period complied with the SPDES discharge limits. The laboratory analytical data sheets are provided as Attachment A.

Also, the granular activated carbon in filter GAC #1 was replaced on January 15, 2014, and afterward GAC#2 configured for lead and GAC#1 configured for lag service

#### **ACTIVITIES SCHEDULED**

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Continue operation of the groundwater recovery and treatment system including SPDES monitoring. Also, conduct the semi-annual round of groundwater monitoring during which wells MW-10, MW-11, MW-13, MW-18 and MW-24 will be sampled as typical. Monitoring well MW-14 will also be sampled during the upcoming groundwater monitoring round to assess the unusual and perhaps anomalous concentration detected in this well during October 2013.

If you have any questions regarding this report, please do not hesitate to call me at (315) 956-6100.

Very truly yours,

**O'BRIEN & GERE ENGINEERS, INC.**

Alfred R. Farrell, P.E.  
Project Manager

333 West Washington Street, Syracuse, NY 13221-4873 | p 315-956-6100 | f 315-463-7554 | www.obg.com

Mr. John C. Grathwol, P.E.  
April 7, 2014  
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cc: T. Slutzky – The Anderson Company  
T. Olmsted – ITT Corporation  
L. Hall – ITT Corporation  
M. Distler – O'Brien & Gere  
J. Sutphen – O'Brien & Gere, Office of General Counsel









# 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: 480-52800-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

1/16/2014 10:27:34 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## Client Sample ID: Effluent

Lab Sample ID: 480-52800-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	704		10.0	4.0	mg/L	1		SM2540 C	Total/NA

## Client Sample ID: QC Trip Blank

Lab Sample ID: 480-52800-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## Client Sample ID: Effluent

Date Collected: 01/03/14 07:30

Date Received: 01/04/14 09:00

## Lab Sample ID: 480-52800-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/06/14 14:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/06/14 14:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/06/14 14:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/06/14 14:57	1
Toluene	ND		1.0	0.51	ug/L			01/06/14 14:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/06/14 14:57	1
Trichloroethene	ND		1.0	0.46	ug/L			01/06/14 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		01/06/14 14:57	1
4-Bromofluorobenzene (Surr)	97		73 - 120		01/06/14 14:57	1
Toluene-d8 (Surr)	98		71 - 126		01/06/14 14:57	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	704		10.0	4.0	mg/L			01/08/14 17:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/06/14 15:45	1

## Client Sample ID: QC Trip Blank

Date Collected: 01/03/14 00:00

Date Received: 01/04/14 09:00

## Lab Sample ID: 480-52800-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/06/14 15:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/06/14 15:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/06/14 15:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/06/14 15:21	1
Toluene	ND		1.0	0.51	ug/L			01/06/14 15:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/06/14 15:21	1
Trichloroethene	ND		1.0	0.46	ug/L			01/06/14 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		01/06/14 15:21	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/06/14 15:21	1
Toluene-d8 (Surr)	98		71 - 126		01/06/14 15:21	1

# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (66-137)	BFB (73-120)	TOL (71-126)
480-52800-1	Effluent	101	97	98
480-52800-2	QC Trip Blank	102	98	98
LCS 480-160569/5	Lab Control Sample	99	100	98
MB 480-160569/7	Method Blank	101	98	100

### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

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

**Lab Sample ID: MB 480-160569/7**

**Matrix: Water**

**Analysis Batch: 160569**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/06/14 14:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/06/14 14:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/06/14 14:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/06/14 14:13	1
Toluene	ND		1.0	0.51	ug/L			01/06/14 14:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/06/14 14:13	1
Trichloroethene	ND		1.0	0.46	ug/L			01/06/14 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		01/06/14 14:13	1
4-Bromofluorobenzene (Surr)	98		73 - 120		01/06/14 14:13	1
Toluene-d8 (Surr)	100		71 - 126		01/06/14 14:13	1

**Lab Sample ID: LCS 480-160569/5**

**Matrix: Water**

**Analysis Batch: 160569**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Tetrachloroethene	25.0	26.4		ug/L		105	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
Trichloroethene	25.0	25.8		ug/L		103	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	98		71 - 126

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 480-160610/1**

**Matrix: Water**

**Analysis Batch: 160610**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/06/14 15:45	1

**Lab Sample ID: LCS 480-160610/2**

**Matrix: Water**

**Analysis Batch: 160610**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	242	226.4		mg/L		94	88 - 110

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-160816/1  
 Matrix: Water  
 Analysis Batch: 160816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/08/14 17:05	1

Lab Sample ID: LCS 480-160816/2  
 Matrix: Water  
 Analysis Batch: 160816

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	497.0		mg/L		99	85 - 115



# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## GC/MS VOA

### Analysis Batch: 160569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-52800-1	Effluent	Total/NA	Water	8260C	
480-52800-2	QC Trip Blank	Total/NA	Water	8260C	
LCS 480-160569/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-160569/7	Method Blank	Total/NA	Water	8260C	

## General Chemistry

### Analysis Batch: 160610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-52800-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-160610/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-160610/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 160816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-52800-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-160816/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-160816/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## Client Sample ID: Effluent

Date Collected: 01/03/14 07:30

Date Received: 01/04/14 09:00

Lab Sample ID: 480-52800-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	160569	01/06/14 14:57	NQN	TAL BUF
Total/NA	Analysis	SM 2540D		1	160610	01/06/14 15:45	JMB	TAL BUF
Total/NA	Analysis	SM2540 C		1	160816	01/08/14 17:07	KS	TAL BUF

## Client Sample ID: QC Trip Blank

Date Collected: 01/03/14 00:00

Date Received: 01/04/14 09:00

Lab Sample ID: 480-52800-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	160569	01/06/14 15:21	NQN	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: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13 *
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
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	12-31-13 *
Tennessee	State Program	4	TN02970	04-01-14
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	02-10-14
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-52800-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-52800-1	Effluent	Water	01/03/14 07:30	01/04/14 09:00
480-52800-2	QC Trip Blank	Water	01/03/14 00:00	01/04/14 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record

<b>Client Information</b> Client Contact: Mr. Yuri Veliz Company: O'Brien & Gere Inc. of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project #: 48008584 Former Accurate Die Cast Site:		Sampler: <i>Melissa Deyo</i> Lab PM: Deyo, Melissa L. Phone: 315-489-1360 E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s): COC No.: 480-40006-10587.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: 11312000EST WO #:		Analysis Requested			
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 2540D - Total Suspended Solids N N A 2540C - Calcd - Total Dissolved Solids N N A 8260C - Volatile Organic Compounds N N A		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 Other:			
Sample Identification Effluent QC Trip Blank		Sample Date 1-3-14 1-3-14	Sample Time 7:30 7:30	Sample Type (C=Comp, G=grab) G C	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: Total Number of containers: 3 2 1 480-52800 Chain of Custody			
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:		Special Instructions/QC Requirements:			
Relinquished by: <i>Melissa Deyo</i> Relinquished by: <i>RE</i> Relinquished by:		Method of Shipment:			
Date/Time: 1-3-14 / 9:35 Date/Time: 1-3-14 / 19:00 Date/Time:		Received by: <i>Melissa Deyo</i> Received by: <i>RE</i> Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #2 2.5			



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-52800-1

**Login Number: 52800**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kolb, Chris M**

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	obg
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



# 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: 480-52898-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

1/16/2014 10:49:17 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

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results through

TotalAccess

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[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

### 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)



# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-52898-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	716		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-52898-1**

**Date Collected: 01/07/14 07:30**

**Matrix: Water**

**Date Received: 01/09/14 02:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>716</b>		10.0	4.0	mg/L			01/09/14 22:11	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/09/14 18:21	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-160985/1  
 Matrix: Water  
 Analysis Batch: 160985

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/09/14 18:06	1

Lab Sample ID: LCS 480-160985/2  
 Matrix: Water  
 Analysis Batch: 160985

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	262	251.2		mg/L		96	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-160997/1  
 Matrix: Water  
 Analysis Batch: 160997

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/09/14 22:09	1

Lab Sample ID: LCS 480-160997/2  
 Matrix: Water  
 Analysis Batch: 160997

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	490.0		mg/L		98	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

## General Chemistry

### Analysis Batch: 160985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-52898-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-160985/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-160985/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 160997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-52898-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-160997/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-160997/1	Method Blank	Total/NA	Water	SM2540 C	



# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-52898-1**

**Date Collected: 01/07/14 07:30**

**Matrix: Water**

**Date Received: 01/09/14 02:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	160985	01/09/14 18:21	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	160997	01/09/14 22:11	KS	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: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13 *
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
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	12-31-13 *
Tennessee	State Program	4	TN02970	04-01-14
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	02-10-14
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",  
SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-52898-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-52898-1	Effluent	Water	01/07/14 07:30	01/09/14 02:00

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# Chain of Custody Record

<b>Client Information</b> Client Contact: Mr. Yuri Veliz Company: O'Brien & Gere Inc of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project Name: Former Accurate Die Cast Site:		Lab PM: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com Carrier Tracking No(s): Job #:	
Sampler: <i>Martin Koewinkel</i> Phone: 315-429-1300		COC No: 480-40032-10586.1 Page: Page 1 of 1	
<b>Analysis Requested</b>			
Due Date Requested: TAT Requested (days): PO #: 11312000EST WO #:		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 Other:	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
2540C - Total Suspended Solids		2540C - Calcd - Total Dissolved Solids	
2540D - Total Suspended Solids		Total Number of Containers	
MATRIX (W=water, S=solid, O=wastebiol, B=Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code:		Special Instructions/Note:	
Effluent 1-7-14 730 C Water		2 480-52898 Chain of Custody	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Martin Koewinkel</i>		Date/Time: 1-7-14 10:30 Company: OBG	
Relinquished by:		Date/Time: 1-7-14 02:00 Company: JAR	
Relinquished by:		Date/Time:	
Custody Seals Intact: Δ Yes, Δ No		Cooler Temperature(s) °C and Other Remarks: 2-6#1	

## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-52898-1

**Login Number: 52898**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-53349-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

1/22/2014 4:12:37 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

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## Definitions/Glossary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

### 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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

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**Job ID: 480-53349-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-53349-1**

**Receipt**

The sample was received on 1/15/2014 11:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

**General Chemistry**

No analytical or quality issues were noted.

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53349-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	705		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53349-1**

**Date Collected: 01/15/14 07:30**

**Matrix: Water**

**Date Received: 01/15/14 23:45**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>705</b>		10.0	4.0	mg/L			01/16/14 18:18	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/20/14 17:32	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-162416/1  
 Matrix: Water  
 Analysis Batch: 162416

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/20/14 17:28	1

Lab Sample ID: LCS 480-162416/2  
 Matrix: Water  
 Analysis Batch: 162416

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	250	240.8		mg/L		96	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-161986/1  
 Matrix: Water  
 Analysis Batch: 161986

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/16/14 18:18	1

Lab Sample ID: LCS 480-161986/2  
 Matrix: Water  
 Analysis Batch: 161986

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	457.0		mg/L		91	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

## General Chemistry

### Analysis Batch: 161986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53349-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-161986/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-161986/1	Method Blank	Total/NA	Water	SM2540 C	

### Analysis Batch: 162416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53349-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-162416/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-162416/1	Method Blank	Total/NA	Water	SM 2540D	

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# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53349-1**

**Date Collected: 01/15/14 07:30**

**Matrix: Water**

**Date Received: 01/15/14 23:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2540 C		1	161986	01/16/14 18:18	JMB	TAL BUF
Total/NA	Analysis	SM 2540D		1	162416	01/20/14 17:32	KS	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

## Laboratory: TestAmerica Buffalo

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

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Arkansas DEQ	State Program	6	88-0686	07-06-14
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Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13 *
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-14
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Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	04-01-14
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	02-10-14
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-53349-1

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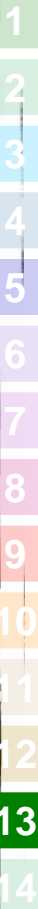
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-53349-1	Effluent	Water	01/15/14 07:30	01/15/14 23:45

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# Chain of Custody Record

<b>Client Information</b> Company: O'Brien & Gere Inc of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project Name: Former Accurate Die Cast Site:		Lab PM: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com Carrier Tracking No(s): COC No: 480-40020-10586.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: 11312000EST WO #: 48008584 Project #: 48008584 SSO#:		<b>Analysis Requested</b>	
<b>Sample Identification</b> Sample Date: 1-15-14 Sample Time: 7:30 Sample Type (C=Comp, G=grab): C Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 2540D - Total Suspended Solids: N N 2540C - Calcd - Total Dissolved Solids: N N	
<b>Sample Identification</b> Effluent		Total Number of containers: 2	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: [Signature] Date: 1-15-14 / 10:00 Company: OBG		Received by: [Signature] Date/Time: 1-15-14 03:45 Company: TA	
Relinquished by: [Signature] Date/Time: 1-15-14 / 11:24 Company:		Received by: [Signature] Date/Time: 1-15-14 03:45 Company: TA	
Relinquished by:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2.4 #2	



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-53349-1

**Login Number: 53349**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	





# 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: 480-53641-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/4/2014 10:55:46 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

**Job ID: 480-53641-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

**Job Narrative**  
**480-53641-1**

### Receipt

The samples were received on 1/22/2014 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° 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 (480-53641-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### Metals

Method(s) 6010C: The Method Blank for batch 480-164068 contained total zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples Effluent (480-53641-5), Influent (480-53641-4) was not performed.

No other analytical or quality issues were noted.

### General Chemistry

No analytical or quality issues were noted.

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Client Sample ID: Influent

Lab Sample ID: 480-53641-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene - DL	340		5.0	2.3	ug/L	5		8260C	Total/NA

## Client Sample ID: Between Carbons

Lab Sample ID: 480-53641-2

No Detections.

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-3

No Detections.

## Client Sample ID: Influent

Lab Sample ID: 480-53641-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0027	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0033	J B	0.010	0.0015	mg/L	1		6010C	Total/NA
Total Dissolved Solids	675		10.0	4.0	mg/L	1		SM2540 C	Total/NA

## Client Sample ID: QC Trip Blank

Lab Sample ID: 480-53641-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Client Sample ID: Influent

Lab Sample ID: 480-53641-1

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/14 20:19	1
<b>cis-1,2-Dichloroethene</b>	<b>2.7</b>		1.0	0.81	ug/L			02/01/14 20:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/14 20:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/14 20:19	1
Toluene	ND		1.0	0.51	ug/L			02/01/14 20:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/14 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		02/01/14 20:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/01/14 20:19	1
Toluene-d8 (Surr)	99		71 - 126		02/01/14 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>340</b>		5.0	2.3	ug/L			02/03/14 14:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		02/03/14 14:08	5
4-Bromofluorobenzene (Surr)	101		73 - 120		02/03/14 14:08	5
Toluene-d8 (Surr)	100		71 - 126		02/03/14 14:08	5

## Client Sample ID: Between Carbons

Lab Sample ID: 480-53641-2

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/14 20:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/14 20:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/14 20:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/14 20:43	1
Toluene	ND		1.0	0.51	ug/L			02/01/14 20:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/14 20:43	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/14 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		02/01/14 20:43	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/01/14 20:43	1
Toluene-d8 (Surr)	99		71 - 126		02/01/14 20:43	1

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-3

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/14 21:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/14 21:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/14 21:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/14 21:07	1
Toluene	ND		1.0	0.51	ug/L			02/01/14 21:07	1

TestAmerica Buffalo

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-3

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/14 21:07	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/14 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137					02/01/14 21:07	1
4-Bromofluorobenzene (Surr)	99		73 - 120					02/01/14 21:07	1
Toluene-d8 (Surr)	98		71 - 126					02/01/14 21:07	1

## Client Sample ID: Influent

Lab Sample ID: 480-53641-4

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0027	J B	0.010	0.0015	mg/L		01/28/14 09:35	01/29/14 18:19	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/22/14 08:45	01/22/14 12:40	1

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-5

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0033	J B	0.010	0.0015	mg/L		01/28/14 09:35	01/29/14 18:22	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/22/14 08:45	01/22/14 12:51	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	675		10.0	4.0	mg/L			01/22/14 18:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/22/14 17:14	1

## Client Sample ID: QC Trip Blank

Lab Sample ID: 480-53641-6

Date Collected: 01/21/14 00:00

Matrix: Water

Date Received: 01/22/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/14 21:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/14 21:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/14 21:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/14 21:32	1
Toluene	ND		1.0	0.51	ug/L			02/01/14 21:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/14 21:32	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/14 21:32	1

TestAmerica Buffalo

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

**Client Sample ID: QC Trip Blank**

**Lab Sample ID: 480-53641-6**

**Date Collected: 01/21/14 00:00**

**Matrix: Water**

**Date Received: 01/22/14 03:00**

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		02/01/14 21:32	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/01/14 21:32	1
Toluene-d8 (Surr)	98		71 - 126		02/01/14 21:32	1



# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	BFB	TOL
		(66-137)	(73-120)	(71-126)
480-53641-1	Influent	101	99	99
480-53641-1 - DL	Influent	108	101	100
480-53641-2	Between Carbons	104	98	99
480-53641-3	Effluent	105	99	98
480-53641-6	QC Trip Blank	106	99	98
LCS 480-164189/5	Lab Control Sample	106	102	103
LCS 480-164242/5	Lab Control Sample	106	99	96
MB 480-164189/6	Method Blank	105	98	100
MB 480-164242/6	Method Blank	107	101	98

### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

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

**Lab Sample ID: MB 480-164189/6**

**Matrix: Water**

**Analysis Batch: 164189**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/01/14 15:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/01/14 15:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/01/14 15:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/01/14 15:33	1
Toluene	ND		1.0	0.51	ug/L			02/01/14 15:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/01/14 15:33	1
Trichloroethene	ND		1.0	0.46	ug/L			02/01/14 15:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		02/01/14 15:33	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/01/14 15:33	1
Toluene-d8 (Surr)	100		71 - 126		02/01/14 15:33	1

**Lab Sample ID: LCS 480-164189/5**

**Matrix: Water**

**Analysis Batch: 164189**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	74 - 124
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	25.5		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
Trichloroethene	25.0	27.1		ug/L		108	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	103		71 - 126

**Lab Sample ID: MB 480-164242/6**

**Matrix: Water**

**Analysis Batch: 164242**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/03/14 11:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/03/14 11:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/03/14 11:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/03/14 11:49	1
Toluene	ND		1.0	0.51	ug/L			02/03/14 11:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/03/14 11:49	1
Trichloroethene	ND		1.0	0.46	ug/L			02/03/14 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		02/03/14 11:49	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/03/14 11:49	1
Toluene-d8 (Surr)	98		71 - 126		02/03/14 11:49	1

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

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

Lab Sample ID: LCS 480-164242/5

Matrix: Water

Analysis Batch: 164242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
Tetrachloroethene	25.0	23.4		ug/L		93	74 - 122
Toluene	25.0	23.4		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
Trichloroethene	25.0	25.6		ug/L		102	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	96		71 - 126

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-163452/1-A

Matrix: Water

Analysis Batch: 164068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 163452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00253	J	0.010	0.0015	mg/L		01/28/14 09:35	01/29/14 17:31	1

Lab Sample ID: LCS 480-163452/2-A

Matrix: Water

Analysis Batch: 164068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.211		mg/L		105	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-162692/1-A

Matrix: Water

Analysis Batch: 162795

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/22/14 08:45	01/22/14 12:35	1

Lab Sample ID: LCS 480-162692/2-A

Matrix: Water

Analysis Batch: 162795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00593		mg/L		89	80 - 120

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID:** LCSD 480-162692/25-A  
**Matrix:** Water  
**Analysis Batch:** 162795

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 162692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00667	0.00618		mg/L		93	80 - 120	4	20

**Lab Sample ID:** 480-53641-4 MS  
**Matrix:** Water  
**Analysis Batch:** 162795

**Client Sample ID:** Influent  
**Prep Type:** Total/NA  
**Prep Batch:** 162692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00677		mg/L		101	75 - 125

**Lab Sample ID:** 480-53641-4 MSD  
**Matrix:** Water  
**Analysis Batch:** 162795

**Client Sample ID:** Influent  
**Prep Type:** Total/NA  
**Prep Batch:** 162692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00682		mg/L		102	75 - 125	1	20

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID:** MB 480-162641/1  
**Matrix:** Water  
**Analysis Batch:** 162641

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/22/14 16:33	1

**Lab Sample ID:** LCS 480-162641/2  
**Matrix:** Water  
**Analysis Batch:** 162641

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	250	236.4		mg/L		94	88 - 110

## Method: SM2540 C - Total Dissolved Solids

**Lab Sample ID:** MB 480-162825/1  
**Matrix:** Water  
**Analysis Batch:** 162825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/22/14 18:22	1

**Lab Sample ID:** LCS 480-162825/2  
**Matrix:** Water  
**Analysis Batch:** 162825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	476.0		mg/L		95	85 - 115

TestAmerica Buffalo

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## GC/MS VOA

### Analysis Batch: 164189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-1	Influent	Total/NA	Water	8260C	
480-53641-2	Between Carbons	Total/NA	Water	8260C	
480-53641-3	Effluent	Total/NA	Water	8260C	
480-53641-6	QC Trip Blank	Total/NA	Water	8260C	
LCS 480-164189/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-164189/6	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 164242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-1 - DL	Influent	Total/NA	Water	8260C	
LCS 480-164242/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-164242/6	Method Blank	Total/NA	Water	8260C	

## Metals

### Prep Batch: 162692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-4	Influent	Total/NA	Water	7470A	
480-53641-4 MS	Influent	Total/NA	Water	7470A	
480-53641-4 MSD	Influent	Total/NA	Water	7470A	
480-53641-5	Effluent	Total/NA	Water	7470A	
LCS 480-162692/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-162692/25-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 480-162692/1-A	Method Blank	Total/NA	Water	7470A	

### Analysis Batch: 162795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-4	Influent	Total/NA	Water	7470A	162692
480-53641-4 MS	Influent	Total/NA	Water	7470A	162692
480-53641-4 MSD	Influent	Total/NA	Water	7470A	162692
480-53641-5	Effluent	Total/NA	Water	7470A	162692
LCS 480-162692/2-A	Lab Control Sample	Total/NA	Water	7470A	162692
LCSD 480-162692/25-A	Lab Control Sample Dup	Total/NA	Water	7470A	162692
MB 480-162692/1-A	Method Blank	Total/NA	Water	7470A	162692

### Prep Batch: 163452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-4	Influent	Total/NA	Water	3005A	
480-53641-5	Effluent	Total/NA	Water	3005A	
LCS 480-163452/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-163452/1-A	Method Blank	Total/NA	Water	3005A	

### Analysis Batch: 164068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-4	Influent	Total/NA	Water	6010C	163452
480-53641-5	Effluent	Total/NA	Water	6010C	163452
LCS 480-163452/2-A	Lab Control Sample	Total/NA	Water	6010C	163452
MB 480-163452/1-A	Method Blank	Total/NA	Water	6010C	163452

TestAmerica Buffalo

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## General Chemistry

### Analysis Batch: 162641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-5	Effluent	Total/NA	Water	SM 2540D	
LCS 480-162641/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-162641/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 162825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53641-5	Effluent	Total/NA	Water	SM2540 C	
LCS 480-162825/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-162825/1	Method Blank	Total/NA	Water	SM2540 C	

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# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## Client Sample ID: Influent

Lab Sample ID: 480-53641-1

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164189	02/01/14 20:19	TRB	TAL BUF
Total/NA	Analysis	8260C	DL	5	164242	02/03/14 14:08	CDC	TAL BUF

## Client Sample ID: Between Carbons

Lab Sample ID: 480-53641-2

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164189	02/01/14 20:43	TRB	TAL BUF

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-3

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164189	02/01/14 21:07	TRB	TAL BUF

## Client Sample ID: Influent

Lab Sample ID: 480-53641-4

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			162692	01/22/14 08:45	JRK	TAL BUF
Total/NA	Analysis	7470A		1	162795	01/22/14 12:40	JRK	TAL BUF
Total/NA	Prep	3005A			163452	01/28/14 09:35	EHD	TAL BUF
Total/NA	Analysis	6010C		1	164068	01/29/14 18:19	HTL	TAL BUF

## Client Sample ID: Effluent

Lab Sample ID: 480-53641-5

Date Collected: 01/21/14 07:30

Matrix: Water

Date Received: 01/22/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			162692	01/22/14 08:45	JRK	TAL BUF
Total/NA	Analysis	7470A		1	162795	01/22/14 12:51	JRK	TAL BUF
Total/NA	Prep	3005A			163452	01/28/14 09:35	EHD	TAL BUF
Total/NA	Analysis	6010C		1	164068	01/29/14 18:22	HTL	TAL BUF
Total/NA	Analysis	SM 2540D		1	162641	01/22/14 17:14	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	162825	01/22/14 18:34	KS	TAL BUF

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

**Client Sample ID: QC Trip Blank**

**Lab Sample ID: 480-53641-6**

**Date Collected: 01/21/14 00:00**

**Matrix: Water**

**Date Received: 01/22/14 03:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164189	02/01/14 21:32	TRB	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
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	02-10-14 *
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-53641-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-53641-1	Influent	Water	01/21/14 07:30	01/22/14 03:00
480-53641-2	Between Carbons	Water	01/21/14 07:30	01/22/14 03:00
480-53641-3	Effluent	Water	01/21/14 07:30	01/22/14 03:00
480-53641-4	Influent	Water	01/21/14 07:30	01/22/14 03:00
480-53641-5	Effluent	Water	01/21/14 07:30	01/22/14 03:00
480-53641-6	QC Trip Blank	Water	01/21/14 00:00	01/22/14 03:00

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# Chain of Custody Record

<b>Client Information</b>		Lab PM: Deyo, Melissa L		Carrier Tracking No(s):		COC No: 480-43085-10589.1	
Client Contact: Mr. Yuri Veliz		Phone: 315-429-1300		E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 1	
Company: Brien & Gere Inc of North America		Address: 33 West Washington St. PO BOX 4873		City: East Syracuse		State: NY, Zip: 13221	
Phone: 1-956-6100(Tel) 315-463-7554(Fax)		PO #: 11312000EST		WO #:		Due Date Requested:	
E-mail: Yuri.Veliz@obg.com		Project #: 48008584		SSOW#:		TAT Requested (days):	
Former Name: Accurate Die Cast		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (W=Water, S=solid, O=soil, B=Tissue, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification		Sample Date		Sample Time		Sample Type	
Effluent		1-21-14		7:30		Water	
Between Carbons		1-21-14		7:30		Water	
Effluent		1-21-14		7:30		Water	
Effluent		1-21-14		7:30		Water	
Effluent		1-21-14		7:30		Water	
QC Trip Blank							
Possible Hazard Identification		Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Skin Irritant <input type="checkbox"/> Flammable <input type="checkbox"/>		Non-Hazard <input type="checkbox"/>	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Date/Time:		Date/Time:	
Empty Kit Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by: Martin Koemake		1-21-14 / 9:55		9:55		9:55	
Relinquished by: Reaghib Syed		1-21-14 / 9:00		9:00		9:00	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.8 #1		Special Instructions/OC Requirements:	



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-53641-1

**Login Number: 53641**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	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	

# 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: 480-53912-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/3/2014 12:38:12 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

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[www.testamericainc.com](http://www.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.*

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## Definitions/Glossary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

### 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)



# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

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**Job ID: 480-53912-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-53912-1**

**Receipt**

The sample was received on 1/29/2014 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

**General Chemistry**

No analytical or quality issues were noted.

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53912-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	684		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53912-1**

**Date Collected: 01/28/14 07:30**

**Matrix: Water**

**Date Received: 01/29/14 01:30**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>684</b>		10.0	4.0	mg/L			01/30/14 18:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/29/14 16:03	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 480-163753/1**  
**Matrix: Water**  
**Analysis Batch: 163753**

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/29/14 16:03	1

**Lab Sample ID: LCS 480-163753/2**  
**Matrix: Water**  
**Analysis Batch: 163753**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	236	226.0		mg/L		96	88 - 110

**Lab Sample ID: 480-53912-1 DU**  
**Matrix: Water**  
**Analysis Batch: 163753**

**Client Sample ID: Effluent**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	ND		ND		mg/L		NC	15

## Method: SM2540 C - Total Dissolved Solids

**Lab Sample ID: MB 480-163942/1**  
**Matrix: Water**  
**Analysis Batch: 163942**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/30/14 18:34	1

**Lab Sample ID: LCS 480-163942/2**  
**Matrix: Water**  
**Analysis Batch: 163942**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	469.0		mg/L		94	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

## General Chemistry

### Analysis Batch: 163753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53912-1	Effluent	Total/NA	Water	SM 2540D	
480-53912-1 DU	Effluent	Total/NA	Water	SM 2540D	
LCS 480-163753/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-163753/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 163942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-53912-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-163942/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-163942/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-53912-1**

**Date Collected: 01/28/14 07:30**

**Matrix: Water**

**Date Received: 01/29/14 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	163753	01/29/14 16:03	JMB	TAL BUF
Total/NA	Analysis	SM2540 C		1	163942	01/30/14 18:34	JMB	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
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	02-10-14 *
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-53912-1


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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-53912-1	Effluent	Water	01/28/14 07:30	01/29/14 01:30

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Chain of Custody Record

<b>Client Information</b> Client Contact: Ir. Yuri Veliz Company: Brien & Gere Inc of North America Address: 33 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-472-1361 Fax: 315-463-7554 Email: yuri.veliz@obg.com Former Name: Accurate Die Cast		Lab PM: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com Carrier Tracking No(s): 480-40020-10586.1 Page: Page 1 of 1 Job #:	
<b>Analysis Requested</b> Due Date Requested: 11/31/2000EST TAT Requested (days): PO #: 11312000EST WO #: Project #: 48008584 SOW #:		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 Other: 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)	
<b>Sample Identification</b> Sample Name: effluent Sample Date: 1-28-14 Sample Time: 17:30 Sample Type (C=Comp, G=grab): C Preservation Code: Water MATRIX (W=water, S=solid, O=waste/oil, BT=tissue, A=air)		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes 2540D - Total Suspended Solids: N 2540C - Calcd - Total Dissolved Solids: N Total Number of Containers: 2 Special Instructions/Note:	
 480-53912 Chain of Custody			
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
<b>Sample Kit Relinquished by:</b> Relinquished by: [Signature] Date: 1-28-14 / 17:45 Company: C536			
<b>Sample Kit Relinquished by:</b> Relinquished by: [Signature] Date: 1-28-14 Company: C536			
<b>Sample Kit Relinquished by:</b> Relinquished by: [Signature] Date: 1-28-14 Company: C536			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Cooler Temperature(s) °C and Other Remarks: 2-4-14			



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-53912-1

**Login Number: 53912**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-54162-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/10/2014 5:40:52 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
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*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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

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**Job ID: 480-54162-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-54162-1**

**Receipt**

The samples were received on 2/4/2014 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

**GC/MS VOA**

No analytical or quality issues were noted.

**General Chemistry**

No analytical or quality issues were noted.



# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

## Client Sample ID: Effluent

Lab Sample ID: 480-54162-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	708		10.0	4.0	mg/L	1		SM2540 C	Total/NA

## Client Sample ID: Between Carbons

Lab Sample ID: 480-54162-2

No Detections.

## Client Sample ID: Effluent

Lab Sample ID: 480-54162-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

## Client Sample ID: Effluent

Date Collected: 02/03/14 07:30  
 Date Received: 02/04/14 02:00

## Lab Sample ID: 480-54162-1

Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>708</b>		10.0	4.0	mg/L			02/04/14 17:05	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/04/14 15:58	1

## Client Sample ID: Between Carbons

Date Collected: 02/03/14 07:30  
 Date Received: 02/04/14 02:00

## Lab Sample ID: 480-54162-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/07/14 16:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/07/14 16:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/07/14 16:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/07/14 16:34	1
Toluene	ND		1.0	0.51	ug/L			02/07/14 16:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/07/14 16:34	1
Trichloroethene	ND		1.0	0.46	ug/L			02/07/14 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137					02/07/14 16:34	1
4-Bromofluorobenzene (Surr)	105		73 - 120					02/07/14 16:34	1
Toluene-d8 (Surr)	102		71 - 126					02/07/14 16:34	1

## Client Sample ID: Effluent

Date Collected: 02/03/14 07:30  
 Date Received: 02/04/14 02:00

## Lab Sample ID: 480-54162-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/07/14 16:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/07/14 16:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/07/14 16:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/07/14 16:59	1
Toluene	ND		1.0	0.51	ug/L			02/07/14 16:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/07/14 16:59	1
Trichloroethene	ND		1.0	0.46	ug/L			02/07/14 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137					02/07/14 16:59	1
4-Bromofluorobenzene (Surr)	105		73 - 120					02/07/14 16:59	1
Toluene-d8 (Surr)	103		71 - 126					02/07/14 16:59	1

# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	BFB	TOL
		(66-137)	(73-120)	(71-126)
480-54162-2	Between Carbons	105	105	102
480-54162-3	Effluent	106	105	103
LCS 480-164972/5	Lab Control Sample	102	107	101
LCSD 480-164972/6	Lab Control Sample Dup	100	106	103
MB 480-164972/8	Method Blank	101	106	103

#### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

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

**Lab Sample ID: MB 480-164972/8**

**Matrix: Water**

**Analysis Batch: 164972**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/07/14 12:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/07/14 12:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/07/14 12:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/07/14 12:46	1
Toluene	ND		1.0	0.51	ug/L			02/07/14 12:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/07/14 12:46	1
Trichloroethene	ND		1.0	0.46	ug/L			02/07/14 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		02/07/14 12:46	1
4-Bromofluorobenzene (Surr)	106		73 - 120		02/07/14 12:46	1
Toluene-d8 (Surr)	103		71 - 126		02/07/14 12:46	1

**Lab Sample ID: LCS 480-164972/5**

**Matrix: Water**

**Analysis Batch: 164972**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	74 - 124
Tetrachloroethene	25.0	27.4		ug/L		109	74 - 122
Toluene	25.0	26.6		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
Trichloroethene	25.0	27.9		ug/L		112	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	101		71 - 126

**Lab Sample ID: LCSD 480-164972/6**

**Matrix: Water**

**Analysis Batch: 164972**

**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
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	74 - 124	1	15
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122	2	20
Toluene	25.0	25.7		ug/L		103	80 - 122	4	15
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127	4	20
Trichloroethene	25.0	26.7		ug/L		107	74 - 123	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	103		71 - 126

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

**Lab Sample ID: MB 480-164511/1**  
**Matrix: Water**  
**Analysis Batch: 164511**

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/04/14 15:41	1

**Lab Sample ID: LCS 480-164511/2**  
**Matrix: Water**  
**Analysis Batch: 164511**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	236	226.8		mg/L		96	88 - 110

## Method: SM2540 C - Total Dissolved Solids

**Lab Sample ID: MB 480-164517/1**  
**Matrix: Water**  
**Analysis Batch: 164517**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			02/04/14 16:59	1

**Lab Sample ID: LCS 480-164517/2**  
**Matrix: Water**  
**Analysis Batch: 164517**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	492.0		mg/L		98	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

## GC/MS VOA

### Analysis Batch: 164972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54162-2	Between Carbons	Total/NA	Water	8260C	
480-54162-3	Effluent	Total/NA	Water	8260C	
LCS 480-164972/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-164972/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-164972/8	Method Blank	Total/NA	Water	8260C	

## General Chemistry

### Analysis Batch: 164511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54162-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-164511/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-164511/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 164517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54162-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-164517/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-164517/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

## Client Sample ID: Effluent

Date Collected: 02/03/14 07:30

Date Received: 02/04/14 02:00

Lab Sample ID: 480-54162-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	164511	02/04/14 15:58	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	164517	02/04/14 17:05	KS	TAL BUF

## Client Sample ID: Between Carbons

Date Collected: 02/03/14 07:30

Date Received: 02/04/14 02:00

Lab Sample ID: 480-54162-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164972	02/07/14 16:34	RAL	TAL BUF

## Client Sample ID: Effluent

Date Collected: 02/03/14 07:30

Date Received: 02/04/14 02:00

Lab Sample ID: 480-54162-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164972	02/07/14 16:59	RAL	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: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

### 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
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	02-10-14 *
West Virginia DEP	State Program	3	252	03-31-14
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: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-54162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-54162-1	Effluent	Water	02/03/14 07:30	02/04/14 02:00
480-54162-2	Between Carbons	Water	02/03/14 07:30	02/04/14 02:00
480-54162-3	Effluent	Water	02/03/14 07:30	02/04/14 02:00

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Chain of Custody Record

<b>Client Information</b> Client Contact: Mr. Yun Veliz Company: O'Brien & Gere Inc of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project Name: Former Accurate Die Cast Site:		Lab PIM: Deyo, Melissa L E-Mail: melissa.deyo@testamericainc.com Carrier Tracking No(s): COC No: 480-39995-10588.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: 11312000EST WO #:		Analysis Requested 2540D - Total Suspended Solids 2540C, Calcd - Total Dissolved Solids 8260C - Volatile Organic Compounds Total Number of Containers:	
Sample Identification Effluent Between Carbons Effluent		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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Z - other (specify)	
Sample Date: 2-3-14 Sample Time: 7:30 Matrix: Water Sample Type: C Preservation Code: C		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 2540D - Total Suspended Solids: N 2540C, Calcd - Total Dissolved Solids: N 8260C - Volatile Organic Compounds: A Total Number of Containers: 2	
Sample Date: 2-3-14 Sample Time: 7:30 Matrix: Water Sample Type: C Preservation Code: C		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 2540D - Total Suspended Solids: N 2540C, Calcd - Total Dissolved Solids: N 8260C - Volatile Organic Compounds: A Total Number of Containers: 3	
Sample Date: 2-3-14 Sample Time: 7:30 Matrix: Water Sample Type: C Preservation Code: C		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 2540D - Total Suspended Solids: N 2540C, Calcd - Total Dissolved Solids: N 8260C - Volatile Organic Compounds: A Total Number of Containers: 3	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Yuri Veliz</i> Date/Time: 2-3-14 / 10:11 Company: <i>OBG</i>		Received by: <i>[Signature]</i> Date/Time: 2-3-14 Company: <i>OBG</i>	
Relinquished by: <i>RE</i> Date/Time: 2-3-14, 19:00 Company:		Received by: <i>[Signature]</i> Date/Time: 2-4-14 08:00 Company:	
Relinquished by:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <i>2.8 #1</i>	



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-54162-1

**Login Number: 54162**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-54465-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/17/2014 11:37:12 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

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results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

### 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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

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**Job ID: 480-54465-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-54465-1**

**Receipt**

The sample was received on 2/11/2014 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

**General Chemistry**

No analytical or quality issues were noted.

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54465-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	744		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54465-1**

Date Collected: 02/10/14 07:30

Matrix: Water

Date Received: 02/11/14 01:30

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>744</b>		10.0	4.0	mg/L			02/13/14 20:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/12/14 18:07	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-165673/1  
 Matrix: Water  
 Analysis Batch: 165673

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/12/14 18:07	1

Lab Sample ID: LCS 480-165673/2  
 Matrix: Water  
 Analysis Batch: 165673

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	258	241.2		mg/L		93	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-165904/1  
 Matrix: Water  
 Analysis Batch: 165904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			02/13/14 20:04	1

Lab Sample ID: LCS 480-165904/2  
 Matrix: Water  
 Analysis Batch: 165904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	523.0		mg/L		104	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

## General Chemistry

### Analysis Batch: 165673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54465-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-165673/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-165673/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 165904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54465-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-165904/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-165904/1	Method Blank	Total/NA	Water	SM2540 C	

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# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54465-1**

**Date Collected: 02/10/14 07:30**

**Matrix: Water**

**Date Received: 02/11/14 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	165673	02/12/14 18:07	JMB	TAL BUF
Total/NA	Analysis	SM2540 C		1	165904	02/13/14 20:06	KS	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14
Wisconsin	State Program	5	998310390	08-31-14

# Method Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-54465-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-54465-1	Effluent	Water	02/10/14 07:30	02/11/14 01:30

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Chain of Custody Record

<b>Client Information</b> Company: O'Brien & Gere Inc of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project #: 48008584 Former: Accurate Die Cast Site:		Sampler: <i>Yuri V. Krawicki</i> Lab PM: Deyo, Melissa L. Phone: 315 785-1366 E-Mail: melissa.deyo@testamericainc.com Carrier Tracking No(s): COC No: 480-40033-10586.1 Page: Page 1 of 1 Job #:	
<b>Due Date Requested:</b> TAT Requested (days): PO #: 11312000EST WO #:		<b>Analysis Requested</b>	
<b>Sample Identification</b> Sample Date: <i>2-10-14</i> Sample Time: <i>17:30</i> Sample Type (C=Comp, G=grab): <i>C</i> Preservation Code: <i>Water</i> Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Perform MSMSD (Yes or No) <input checked="" type="checkbox"/> N Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N 2540D - Total Suspended Solids <i>1</i> 2540C - Calcd - Total Dissolved Solids <i>1</i> Total Number of Containers: <i>2</i> Special Instructions/Note:	
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
<b>Empty Kit Relinquished by:</b>		Method of Shipment:	
Relinquished by: <i>Yuri V. Krawicki</i> Relinquished by: <i>RE</i> Relinquished by:		Date: <i>2-10-14 / 10:15</i> Date/Time: <i>2-10-14 / 10:15</i> Date/Time: <i>2-11-14 / 09:30</i> Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: <i>3-1-11</i>		Cooler Temperature(s) °C and Other Remarks:	





## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-54465-1

**Login Number: 54465**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-54997-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/28/2014 11:47:05 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

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**Job ID: 480-54997-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

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**Job Narrative**  
**480-54997-1**

**Receipt**

The samples were received on 2/21/2014 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

**GC/MS VOA**

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

**General Chemistry**

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

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54997-1**

No Detections.

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54997-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	639		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-54997-1**

**Date Collected: 02/20/14 08:30**

**Matrix: Water**

**Date Received: 02/21/14 01:45**

**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			02/21/14 15:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/21/14 15:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/21/14 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/21/14 15:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/21/14 15:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/21/14 15:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/21/14 15:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/21/14 15:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/21/14 15:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/21/14 15:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/21/14 15:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/21/14 15:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/21/14 15:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/21/14 15:16	1
2-Hexanone	ND		5.0	1.2	ug/L			02/21/14 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/21/14 15:16	1
Acetone	ND		10	3.0	ug/L			02/21/14 15:16	1
Benzene	ND		1.0	0.41	ug/L			02/21/14 15:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/21/14 15:16	1
Bromoform	ND		1.0	0.26	ug/L			02/21/14 15:16	1
Bromomethane	ND		1.0	0.69	ug/L			02/21/14 15:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/21/14 15:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/21/14 15:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/21/14 15:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/21/14 15:16	1
Chloroethane	ND		1.0	0.32	ug/L			02/21/14 15:16	1
Chloroform	ND		1.0	0.34	ug/L			02/21/14 15:16	1
Chloromethane	ND		1.0	0.35	ug/L			02/21/14 15:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/21/14 15:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/21/14 15:16	1
Cyclohexane	ND		1.0	0.18	ug/L			02/21/14 15:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/21/14 15:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/21/14 15:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/21/14 15:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/21/14 15:16	1
Methyl acetate	ND		2.5	0.50	ug/L			02/21/14 15:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/21/14 15:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/21/14 15:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/21/14 15:16	1
Styrene	ND		1.0	0.73	ug/L			02/21/14 15:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/21/14 15:16	1
Toluene	ND		1.0	0.51	ug/L			02/21/14 15:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/21/14 15:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/21/14 15:16	1
Trichloroethene	ND		1.0	0.46	ug/L			02/21/14 15:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/21/14 15:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/21/14 15:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/21/14 15:16	1

TestAmerica Buffalo

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

## Client Sample ID: Effluent

Date Collected: 02/20/14 08:30

Date Received: 02/21/14 01:45

## Lab Sample ID: 480-54997-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 126		02/21/14 15:16	1
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		02/21/14 15:16	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/21/14 15:16	1

## Client Sample ID: Effluent

Date Collected: 02/20/14 08:30

Date Received: 02/21/14 01:45

## Lab Sample ID: 480-54997-2

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	639		10.0	4.0	mg/L			02/21/14 17:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/24/14 17:48	1



# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL (71-126)	12DCE (66-137)	BFB (73-120)
480-54997-1	Effluent	97	110	100
LCS 480-167065/5	Lab Control Sample	95	110	103
MB 480-167065/7	Method Blank	97	110	104

### Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

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

**Lab Sample ID: MB 480-167065/7**

**Matrix: Water**

**Analysis Batch: 167065**

**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			02/21/14 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/21/14 12:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/21/14 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/21/14 12:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/21/14 12:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/21/14 12:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/21/14 12:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/21/14 12:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/21/14 12:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/21/14 12:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/21/14 12:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/21/14 12:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/21/14 12:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/21/14 12:53	1
2-Hexanone	ND		5.0	1.2	ug/L			02/21/14 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/21/14 12:53	1
Acetone	ND		10	3.0	ug/L			02/21/14 12:53	1
Benzene	ND		1.0	0.41	ug/L			02/21/14 12:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/21/14 12:53	1
Bromoform	ND		1.0	0.26	ug/L			02/21/14 12:53	1
Bromomethane	ND		1.0	0.69	ug/L			02/21/14 12:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/21/14 12:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/21/14 12:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/21/14 12:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/21/14 12:53	1
Chloroethane	ND		1.0	0.32	ug/L			02/21/14 12:53	1
Chloroform	ND		1.0	0.34	ug/L			02/21/14 12:53	1
Chloromethane	ND		1.0	0.35	ug/L			02/21/14 12:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/21/14 12:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/21/14 12:53	1
Cyclohexane	ND		1.0	0.18	ug/L			02/21/14 12:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/21/14 12:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/21/14 12:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/21/14 12:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/21/14 12:53	1
Methyl acetate	ND		2.5	0.50	ug/L			02/21/14 12:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/21/14 12:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/21/14 12:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/21/14 12:53	1
Styrene	ND		1.0	0.73	ug/L			02/21/14 12:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/21/14 12:53	1
Toluene	ND		1.0	0.51	ug/L			02/21/14 12:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/21/14 12:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/21/14 12:53	1
Trichloroethene	ND		1.0	0.46	ug/L			02/21/14 12:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/21/14 12:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/21/14 12:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/21/14 12:53	1

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

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

Lab Sample ID: MB 480-167065/7

Matrix: Water

Analysis Batch: 167065

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	97		71 - 126		02/21/14 12:53	1
1,2-Dichloroethane-d4 (Surr)	110		66 - 137		02/21/14 12:53	1
4-Bromofluorobenzene (Surr)	104		73 - 120		02/21/14 12:53	1

Lab Sample ID: LCS 480-167065/5

Matrix: Water

Analysis Batch: 167065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	24.4		ug/L		98	58 - 121
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	27.2		ug/L		109	75 - 127
Benzene	25.0	23.9		ug/L		95	71 - 124
Chlorobenzene	25.0	25.2		ug/L		101	72 - 120
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	25.3		ug/L		101	64 - 127
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	23.5		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	73 - 127
Trichloroethene	25.0	24.8		ug/L		99	74 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		71 - 126
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-167366/1

Matrix: Water

Analysis Batch: 167366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	ND		4.0	4.0	mg/L			02/24/14 17:30	1

Lab Sample ID: LCS 480-167366/2

Matrix: Water

Analysis Batch: 167366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-167147/1  
 Matrix: Water  
 Analysis Batch: 167147

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			02/21/14 17:10	1

Lab Sample ID: LCS 480-167147/2  
 Matrix: Water  
 Analysis Batch: 167147

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	480.0		mg/L		96	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

## GC/MS VOA

### Analysis Batch: 167065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54997-1	Effluent	Total/NA	Water	8260C	
LCS 480-167065/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-167065/7	Method Blank	Total/NA	Water	8260C	

## General Chemistry

### Analysis Batch: 167147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54997-2	Effluent	Total/NA	Water	SM2540 C	
LCS 480-167147/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-167147/1	Method Blank	Total/NA	Water	SM2540 C	

### Analysis Batch: 167366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54997-2	Effluent	Total/NA	Water	SM 2540D	
LCS 480-167366/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-167366/1	Method Blank	Total/NA	Water	SM 2540D	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

**Client Sample ID: Effluent**

**Date Collected: 02/20/14 08:30**

**Date Received: 02/21/14 01:45**

**Lab Sample ID: 480-54997-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	167065	02/21/14 15:16	GTG	TAL BUF

**Client Sample ID: Effluent**

**Date Collected: 02/20/14 08:30**

**Date Received: 02/21/14 01:45**

**Lab Sample ID: 480-54997-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2540 C		1	167147	02/21/14 17:34	JMB	TAL BUF
Total/NA	Analysis	SM 2540D		1	167366	02/24/14 17:48	KS	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: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14
Wisconsin	State Program	5	998310390	08-31-14

# Method Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-54997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-54997-1	Effluent	Water	02/20/14 08:30	02/21/14 01:45
480-54997-2	Effluent	Water	02/20/14 08:30	02/21/14 01:45

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# Chain of Custody Record



<b>Client Information</b> Client Contact: Mr. Yuri Veliz Company: O'Brien & Gere Inc of North America Address: 333 West Washington St. PO BOX 4873 City: East Syracuse State, Zip: NY, 13221 Phone: 315-956-6100(Tel) 315-463-7554(Fax) Email: Yuri.Veliz@obg.com Project Name: Former Accurate Die Cast Site:		Lab P.M.: Deyo, Melissa L E-Mail: melissa.deyo@testa.com Sampler: <i>Martin Koenigke</i> Phone: 315-729-1300 Carrier Tracking No(s):  480-54997 Chain of Custody		COC No: 480-40007-10587.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: 11312000EST WO #:		Field Filtered Sample (Yes or No) 25400 - Total Suspended Solids 25400 - Caled - Total Dissolved Solids 8260C - Volatile Organic Compounds		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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification Effluent Effluent		Matrix (W=water, S=solid, O=wastebott, BT=Tissue, A=air) Sample Type (C=comp, G=grab) Sample Time Sample Date Preservation Code		Total Number of Containers Special Instructions/Notes:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: <i>Mart Koenigke</i> Relinquished by: <i>RE-14 1114</i> Relinquished by:		Date: Date/Time: 2-20-14 / 10:15 Date/Time: 2-20-14 / 19:00 Date/Time:		Method of Shipment: Received by: <i>[Signature]</i> Company: <i>OBG</i> Received by: <i>[Signature]</i> Company: <i>OBG</i> Received by: <i>[Signature]</i> Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2-47#1</i>	



## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-54997-1

**Login Number: 54997**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-55123-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

2/28/2014 5:16:51 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

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[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

### 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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

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**Job ID: 480-55123-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-55123-1**

**Receipt**

The sample was received on 2/25/2014 1:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

**General Chemistry**

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: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55123-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	677		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55123-1**

Date Collected: 02/24/14 07:15

Matrix: Water

Date Received: 02/25/14 01:15

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>677</b>		10.0	4.0	mg/L			02/25/14 20:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/25/14 16:48	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-167541/1  
 Matrix: Water  
 Analysis Batch: 167541

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			02/25/14 16:33	1

Lab Sample ID: LCS 480-167541/2  
 Matrix: Water  
 Analysis Batch: 167541

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	252	233.2		mg/L		93	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-167554/1  
 Matrix: Water  
 Analysis Batch: 167554

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			02/25/14 20:04	1

Lab Sample ID: LCS 480-167554/2  
 Matrix: Water  
 Analysis Batch: 167554

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	565.0		mg/L		112	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

## General Chemistry

### Analysis Batch: 167541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55123-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-167541/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-167541/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 167554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55123-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-167554/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-167554/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55123-1**

**Date Collected: 02/24/14 07:15**

**Matrix: Water**

**Date Received: 02/25/14 01:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	167541	02/25/14 16:48	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	167554	02/25/14 20:25	KS	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

## 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	NELAP	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	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
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	03-31-14
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	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14
Wisconsin	State Program	5	998310390	08-31-14

# Method Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-55123-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55123-1	Effluent	Water	02/24/14 07:15	02/25/14 01:15

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## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-55123-1

**Login Number: 55123**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-55422-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

3/6/2014 6:11:49 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

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*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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

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**Job ID: 480-55422-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-55422-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/4/2014 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

**GC/MS VOA**

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

**General Chemistry**

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: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## Client Sample ID: Effluent

Lab Sample ID: 480-55422-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	725		10.0	4.0	mg/L	1		SM2540 C	Total/NA

## Client Sample ID: Between Carbons

Lab Sample ID: 480-55422-2

No Detections.

## Client Sample ID: Effluent

Lab Sample ID: 480-55422-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## Client Sample ID: Effluent

Date Collected: 03/03/14 07:30  
 Date Received: 03/04/14 09:30

## Lab Sample ID: 480-55422-1

Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>725</b>		10.0	4.0	mg/L			03/04/14 18:26	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/04/14 16:43	1

## Client Sample ID: Between Carbons

Date Collected: 03/03/14 07:30  
 Date Received: 03/04/14 09:30

## Lab Sample ID: 480-55422-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/05/14 00:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/05/14 00:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/05/14 00:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/05/14 00:37	1
Toluene	ND		1.0	0.51	ug/L			03/05/14 00:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/05/14 00:37	1
Trichloroethene	ND		1.0	0.46	ug/L			03/05/14 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137					03/05/14 00:37	1
4-Bromofluorobenzene (Surr)	103		73 - 120					03/05/14 00:37	1
Toluene-d8 (Surr)	98		71 - 126					03/05/14 00:37	1

## Client Sample ID: Effluent

Date Collected: 03/03/14 07:30  
 Date Received: 03/04/14 09:30

## Lab Sample ID: 480-55422-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/05/14 01:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/05/14 01:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/05/14 01:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/05/14 01:00	1
Toluene	ND		1.0	0.51	ug/L			03/05/14 01:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/05/14 01:00	1
Trichloroethene	ND		1.0	0.46	ug/L			03/05/14 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 137					03/05/14 01:00	1
4-Bromofluorobenzene (Surr)	101		73 - 120					03/05/14 01:00	1
Toluene-d8 (Surr)	97		71 - 126					03/05/14 01:00	1

TestAmerica Buffalo

# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	BFB	TOL
		(66-137)	(73-120)	(71-126)
480-55422-2	Between Carbons	107	103	98
480-55422-3	Effluent	110	101	97
LCS 480-168532/5	Lab Control Sample	108	105	98
LCSD 480-168532/6	Lab Control Sample Dup	107	105	95
MB 480-168532/8	Method Blank	108	103	99

#### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)



# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

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

**Lab Sample ID: MB 480-168532/8**

**Matrix: Water**

**Analysis Batch: 168532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/04/14 20:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/04/14 20:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/04/14 20:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/04/14 20:53	1
Toluene	ND		1.0	0.51	ug/L			03/04/14 20:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/04/14 20:53	1
Trichloroethene	ND		1.0	0.46	ug/L			03/04/14 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		03/04/14 20:53	1
4-Bromofluorobenzene (Surr)	103		73 - 120		03/04/14 20:53	1
Toluene-d8 (Surr)	99		71 - 126		03/04/14 20:53	1

**Lab Sample ID: LCS 480-168532/5**

**Matrix: Water**

**Analysis Batch: 168532**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	74 - 124
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	73 - 127
Trichloroethene	25.0	25.2		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	98		71 - 126

**Lab Sample ID: LCSD 480-168532/6**

**Matrix: Water**

**Analysis Batch: 168532**

**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
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124	1	15
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122	6	20
Toluene	25.0	22.5		ug/L		90	80 - 122	5	15
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127	2	20
Trichloroethene	25.0	24.4		ug/L		98	74 - 123	3	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Toluene-d8 (Surr)	95		71 - 126

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-168505/1  
 Matrix: Water  
 Analysis Batch: 168505

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/04/14 16:31	1

Lab Sample ID: LCS 480-168505/2  
 Matrix: Water  
 Analysis Batch: 168505

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	252	237.6		mg/L		94	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-168538/1  
 Matrix: Water  
 Analysis Batch: 168538

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			03/04/14 18:24	1

Lab Sample ID: LCS 480-168538/2  
 Matrix: Water  
 Analysis Batch: 168538

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	466.0		mg/L		93	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## GC/MS VOA

### Analysis Batch: 168532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55422-2	Between Carbons	Total/NA	Water	8260C	
480-55422-3	Effluent	Total/NA	Water	8260C	
LCS 480-168532/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-168532/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-168532/8	Method Blank	Total/NA	Water	8260C	

## General Chemistry

### Analysis Batch: 168505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55422-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-168505/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-168505/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 168538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55422-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-168538/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-168538/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## Client Sample ID: Effluent

Date Collected: 03/03/14 07:30

Date Received: 03/04/14 09:30

Lab Sample ID: 480-55422-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	168505	03/04/14 16:43	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	168538	03/04/14 18:26	KS	TAL BUF

## Client Sample ID: Between Carbons

Date Collected: 03/03/14 07:30

Date Received: 03/04/14 09:30

Lab Sample ID: 480-55422-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	168532	03/05/14 00:37	LCH	TAL BUF

## Client Sample ID: Effluent

Date Collected: 03/03/14 07:30

Date Received: 03/04/14 09:30

Lab Sample ID: 480-55422-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	168532	03/05/14 01:00	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: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

## 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	NELAP	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	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14 *
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
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	03-31-14 *
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	04-01-14 *
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
West Virginia DEP	State Program	3	252	03-31-14 *
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: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-55422-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55422-1	Effluent	Water	03/03/14 07:30	03/04/14 09:30
480-55422-2	Between Carbons	Water	03/03/14 07:30	03/04/14 09:30
480-55422-3	Effluent	Water	03/03/14 07:30	03/04/14 09:30

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**Chain of Custody R**

Client Information  
 Client Contact: **Mr. Yuri Veliz**  
 Address: **1 Brien & Gere Inc of North America**  
 33 West Washington St. PO BOX 4873  
 East Syracuse  
 State, Zip: **NY, 13221**  
 Phone: **315-966-6100(Tel) 315-463-7554(Fax)**  
 Email: **Yuri.Veliz@obb.com**  
 Project Name: **Former Accurate Die Cast**  
 SOW#: \_\_\_\_\_

Lab P.M.  
 Deyo, Melissa L.  
 E-Mail: **melissa.deyo@testamerica.com**

Due Date Requested: \_\_\_\_\_  
 TAT Requested (days): \_\_\_\_\_

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastolol, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C - Calcd - Total Dissolved Solids	8280C - Volatile Organic Compounds	Total Number of Containers	Special Instructions/Note:
Effluent	3-3-14	7:30	C	Water	X	X	1	1		2	
Between Carbons	3-3-14	7:30	G	Water				3		3	
Effluent	3-3-14	7:30	G	Water				3		3	

Preservation Codes:  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NH4SO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other: \_\_\_\_\_

Analysis Requested

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:

Requisitioned by: **Michelle Spence**  
 Date/Time: **3-3-14 / 10:50**  
 Company: **OBG**

Relinquished by: **KE Highley**  
 Date/Time: **3-3-14 / 19:00**  
 Company: **gpc**

Received by: **[Signature]**  
 Date/Time: **3/11/14 0730**  
 Company: **[Signature]**

Relinquished by: **[Signature]**  
 Date/Time: **3-3-14**  
 Company: **[Signature]**

Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: **3.0 #1**





## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-55422-1

**Login Number: 55422**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Stau, Brandon M**

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	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	



# 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: 480-55759-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

3/17/2014 11:02:39 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.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.*

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## Definitions/Glossary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

### 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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

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**Job ID: 480-55759-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-55759-1**

**Receipt**

The sample was received on 3/10/2014 11:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

**General Chemistry**

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: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55759-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	648		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55759-1**

**Date Collected: 03/10/14 07:30**

**Matrix: Water**

**Date Received: 03/10/14 23:30**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>648</b>		10.0	4.0	mg/L			03/11/14 18:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/11/14 16:19	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-169618/1  
 Matrix: Water  
 Analysis Batch: 169618

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/11/14 16:04	1

Lab Sample ID: LCS 480-169618/2  
 Matrix: Water  
 Analysis Batch: 169618

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	224	220.0		mg/L		98	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-169637/1  
 Matrix: Water  
 Analysis Batch: 169637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			03/11/14 18:18	1

Lab Sample ID: LCS 480-169637/2  
 Matrix: Water  
 Analysis Batch: 169637

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	456.0		mg/L		91	85 - 115



# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

## General Chemistry

### Analysis Batch: 169618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55759-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-169618/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-169618/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 169637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-55759-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-169637/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-169637/1	Method Blank	Total/NA	Water	SM2540 C	

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# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-55759-1**

**Date Collected: 03/10/14 07:30**

**Matrix: Water**

**Date Received: 03/10/14 23:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	169618	03/11/14 16:19	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	169637	03/11/14 18:30	KS	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

## 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	NELAP	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	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14 *
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
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	03-31-14 *
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	04-01-14 *
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	03-31-14 *
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: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-55759-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-55759-1	Effluent	Water	03/10/14 07:30	03/10/14 23:30

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## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-55759-1

**Login Number: 55759**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-56151-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

3/20/2014 3:20:35 PM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

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results through

TotalAccess

Have a Question?



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[www.testamericainc.com](http://www.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.*

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## Definitions/Glossary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

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**Job ID: 480-56151-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-56151-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/18/2014 12:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

**GC/MS VOA**

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

**General Chemistry**

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: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## Client Sample ID: Effluent Comp

Lab Sample ID: 480-56151-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	782		10.0	4.0	mg/L	1		SM2540 C	Total/NA

## Client Sample ID: Effluent Grab

Lab Sample ID: 480-56151-2

No Detections.

## Client Sample ID: QC TRIP BLANK

Lab Sample ID: 480-56151-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## Client Sample ID: Effluent Comp

Lab Sample ID: 480-56151-1

Date Collected: 03/17/14 10:45

Matrix: Water

Date Received: 03/18/14 00:30

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>782</b>		10.0	4.0	mg/L			03/19/14 01:14	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/18/14 22:19	1

## Client Sample ID: Effluent Grab

Lab Sample ID: 480-56151-2

Date Collected: 03/17/14 10:45

Matrix: Water

Date Received: 03/18/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/18/14 18:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/18/14 18:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/18/14 18:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/18/14 18:59	1
Toluene	ND		1.0	0.51	ug/L			03/18/14 18:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/18/14 18:59	1
Trichloroethene	ND		1.0	0.46	ug/L			03/18/14 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137					03/18/14 18:59	1
4-Bromofluorobenzene (Surr)	105		73 - 120					03/18/14 18:59	1
Toluene-d8 (Surr)	99		71 - 126					03/18/14 18:59	1
Dibromofluoromethane (Surr)	104		60 - 140					03/18/14 18:59	1

## Client Sample ID: QC TRIP BLANK

Lab Sample ID: 480-56151-3

Date Collected: 03/17/14 00:00

Matrix: Water

Date Received: 03/18/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/18/14 19:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/18/14 19:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/18/14 19:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/18/14 19:23	1
Toluene	ND		1.0	0.51	ug/L			03/18/14 19:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/18/14 19:23	1
Trichloroethene	ND		1.0	0.46	ug/L			03/18/14 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137					03/18/14 19:23	1
4-Bromofluorobenzene (Surr)	104		73 - 120					03/18/14 19:23	1
Toluene-d8 (Surr)	99		71 - 126					03/18/14 19:23	1
Dibromofluoromethane (Surr)	103		60 - 140					03/18/14 19:23	1

TestAmerica Buffalo

# Surrogate Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (66-137)	BFB (73-120)	TOL (71-126)	DBFM (60-140)
480-56151-2	Effluent Grab	92	105	99	104
480-56151-3	QC TRIP BLANK	92	104	99	103
LCS 480-170530/5	Lab Control Sample	90	106	97	104
LCSD 480-170530/6	Lab Control Sample Dup	91	109	99	105
MB 480-170530/8	Method Blank	92	106	99	102

### Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

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

**Lab Sample ID: MB 480-170530/8**

**Matrix: Water**

**Analysis Batch: 170530**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/18/14 11:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/18/14 11:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/18/14 11:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/18/14 11:34	1
Toluene	ND		1.0	0.51	ug/L			03/18/14 11:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/18/14 11:34	1
Trichloroethene	ND		1.0	0.46	ug/L			03/18/14 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 137		03/18/14 11:34	1
4-Bromofluorobenzene (Surr)	106		73 - 120		03/18/14 11:34	1
Toluene-d8 (Surr)	99		71 - 126		03/18/14 11:34	1
Dibromofluoromethane (Surr)	102		60 - 140		03/18/14 11:34	1

**Lab Sample ID: LCS 480-170530/5**

**Matrix: Water**

**Analysis Batch: 170530**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	27.9		ug/L		112	74 - 124
Tetrachloroethene	25.0	28.1		ug/L		112	74 - 122
Toluene	25.0	25.9		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	28.2		ug/L		113	73 - 127
Trichloroethene	25.0	26.7		ug/L		107	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	97		71 - 126
Dibromofluoromethane (Surr)	104		60 - 140

**Lab Sample ID: LCSD 480-170530/6**

**Matrix: Water**

**Analysis Batch: 170530**

**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
cis-1,2-Dichloroethene	25.0	27.9		ug/L		112	74 - 124	0	15
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122	8	20
Toluene	25.0	25.9		ug/L		104	80 - 122	0	15
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	73 - 127	1	20
Trichloroethene	25.0	26.1		ug/L		104	74 - 123	2	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		66 - 137
4-Bromofluorobenzene (Surr)	109		73 - 120
Toluene-d8 (Surr)	99		71 - 126
Dibromofluoromethane (Surr)	105		60 - 140

TestAmerica Buffalo

# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-170667/1

Matrix: Water

Analysis Batch: 170667

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/18/14 21:04	1

Lab Sample ID: LCS 480-170667/2

Matrix: Water

Analysis Batch: 170667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	247	239.2		mg/L		97	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-170700/1

Matrix: Water

Analysis Batch: 170700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			03/19/14 00:54	1

Lab Sample ID: LCS 480-170700/2

Matrix: Water

Analysis Batch: 170700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	514.0		mg/L		102	85 - 115



# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## GC/MS VOA

### Analysis Batch: 170530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56151-2	Effluent Grab	Total/NA	Water	8260C	
480-56151-3	QC TRIP BLANK	Total/NA	Water	8260C	
LCS 480-170530/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-170530/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-170530/8	Method Blank	Total/NA	Water	8260C	

## General Chemistry

### Analysis Batch: 170667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56151-1	Effluent Comp	Total/NA	Water	SM 2540D	
LCS 480-170667/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-170667/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 170700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56151-1	Effluent Comp	Total/NA	Water	SM2540 C	
LCS 480-170700/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-170700/1	Method Blank	Total/NA	Water	SM2540 C	

# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## Client Sample ID: Effluent Comp

Lab Sample ID: 480-56151-1

Date Collected: 03/17/14 10:45

Matrix: Water

Date Received: 03/18/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	170667	03/18/14 22:19	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	170700	03/19/14 01:14	KS	TAL BUF

## Client Sample ID: Effluent Grab

Lab Sample ID: 480-56151-2

Date Collected: 03/17/14 10:45

Matrix: Water

Date Received: 03/18/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	170530	03/18/14 18:59	GTG	TAL BUF

## Client Sample ID: QC TRIP BLANK

Lab Sample ID: 480-56151-3

Date Collected: 03/17/14 00:00

Matrix: Water

Date Received: 03/18/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	170530	03/18/14 19:23	GTG	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: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

## 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	NELAP	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	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	04-01-14 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14 *
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
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	03-31-14
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	04-01-14 *
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	03-31-14 *
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: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: Former Accurate Die Cast

TestAmerica Job ID: 480-56151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56151-1	Effluent Comp	Water	03/17/14 10:45	03/18/14 00:30
480-56151-2	Effluent Grab	Water	03/17/14 10:45	03/18/14 00:30
480-56151-3	QC TRIP BLANK	Water	03/17/14 00:00	03/18/14 00:30

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**Chain of Custody Record**



Tracking No(s):  
COC No: 480-40008-10587.1  
Page: Page 1 of 1  
Job #:

480-56151 Chain of Custody

**Client Information**  
Client Contact: *Maeta Kumbur*  
Mr. Yuri Veliz  
Company: O'Brien & Gere Inc of North America  
Address: 333 West Washington St. PO BOX 4873  
City: East Syracuse  
State, Zip: NY, 13221  
Phone: 315-956-6100 (Tel) 315-463-7554 (Fax)  
Email: Yuri.Veliz@obg.com  
Project #: 48008584  
Site: Former Accurate Die Cast

**Due Date Requested:**  
TAT Requested (days):  
PO #: 11312000EST  
WO #:  
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 - Ash/AsO2  
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=washbottle, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2640D - Total Suspended Solids	2640C Calcd - Total Dissolved Solids	2660C - Volatile Organic Compounds	Total Number of Containers	Special Instructions/Note:
					Field Filtered	MS/MSD	Field Filtered	MS/MSD					
Effluent	3-17-14	10:45	COMP	Water	X		X		1	1		2	
Effluent	3-17-14	10:45	Grab	Water	X		X		3	3		3	
QC Trip Blank					X		X		1	1		1	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, N, Other (specify)  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Maeta Kumbur* Date/Time: 3-17-14 / 11:20 Company: OBG  
 Relinquished by: *Reynolds* Date/Time: 3-17-14 / 19:00 Company: SYR  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact:  Yes  No  
 Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: 2.4#

Received by: <i>Reynolds</i>	Date/Time: 3-17-14 11:20	Company: SYR
Received by: <i>Reynolds</i>	Date/Time: 3-18-14 00:30	Company: TAC
Received by: _____	Date/Time: _____	Company: _____

## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-56151-1

**Login Number: 56151**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	



# 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: 480-56883-1

Client Project/Site: Former Accurate Die Cast

For:

O'Brien & Gere Inc of North America

333 West Washington St.

PO BOX 4873

East Syracuse, New York 13221

Attn: Mr. Al Farrell



Authorized for release by:

4/4/2014 10:30:51 AM

Rebecca Jones, Project Management Assistant I

[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)

Designee for

Melissa Deyo, Project Manager I

(716)504-9874

[melissa.deyo@testamericainc.com](mailto:melissa.deyo@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

### 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)

# Case Narrative

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

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**Job ID: 480-56883-1**

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**Laboratory: TestAmerica Buffalo**

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**Narrative**

**Job Narrative**  
**480-56883-1**

**Receipt**

The sample was received on 3/29/2014 3:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

**General Chemistry**

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

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# Detection Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-56883-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	713		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-56883-1**

**Date Collected: 03/28/14 07:15**

**Matrix: Water**

**Date Received: 03/29/14 03:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>713</b>		10.0	4.0	mg/L			04/01/14 02:10	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/31/14 19:21	1

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# QC Sample Results

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-172983/1  
 Matrix: Water  
 Analysis Batch: 172983

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/31/14 19:06	1

Lab Sample ID: LCS 480-172983/2  
 Matrix: Water  
 Analysis Batch: 172983

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	232	214.4		mg/L		93	88 - 110

## Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-173022/1  
 Matrix: Water  
 Analysis Batch: 173022

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			04/01/14 01:53	1

Lab Sample ID: LCS 480-173022/2  
 Matrix: Water  
 Analysis Batch: 173022

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	504.0		mg/L		101	85 - 115

# QC Association Summary

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

## General Chemistry

### Analysis Batch: 172983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56883-1	Effluent	Total/NA	Water	SM 2540D	
LCS 480-172983/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-172983/1	Method Blank	Total/NA	Water	SM 2540D	

### Analysis Batch: 173022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56883-1	Effluent	Total/NA	Water	SM2540 C	
LCS 480-173022/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-173022/1	Method Blank	Total/NA	Water	SM2540 C	

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# Lab Chronicle

Client: O'Brien & Gere Inc of North America  
Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

**Client Sample ID: Effluent**

**Lab Sample ID: 480-56883-1**

**Date Collected: 03/28/14 07:15**

**Matrix: Water**

**Date Received: 03/29/14 03:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	172983	03/31/14 19:21	KS	TAL BUF
Total/NA	Analysis	SM2540 C		1	173022	04/01/14 02:10	KS	TAL BUF

**Laboratory References:**

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

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# Certification Summary

Client: O'Brien & Gere Inc of North America  
 Project/Site: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

## 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	03-31-14 *
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	04-01-14 *
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	04-01-14 *
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	03-31-14 *
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	04-01-14 *
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	03-31-14 *
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: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM2540 C	Total Dissolved Solids	SM18	TAL BUF

**Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

**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: Former Accurate Die Cast

TestAmerica Job ID: 480-56883-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56883-1	Effluent	Water	03/28/14 07:15	03/29/14 03:00

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## Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-56883-1

**Login Number: 56883**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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	N/A	
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	