

July 18, 2016

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

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

RE: Former Accurate Die Casting Site, Fayetteville, NY

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 second quarter of 2016 (April 1 through July 1). 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**

As of July 1, 2016, a total of 109,947,030 gallons of groundwater have been treated since startup on February 5, 1996. Since April 1, 2016, 905,110 gallons of groundwater have been treated: 189,650 gallons from recovery well RW-1; 714,860 gallons from recovery well RW-2; and 600 gallons from the collection trench constructed in the former VOC/PAH/PCB Soils Area. No groundwater was recovered from the sump located outside the northeast corner of the building.

OBG performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed during April, May and June 2016 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.

#### **ACTIVITIES SCHEDULED**

Continue operation of the groundwater recovery and treatment system including SPDES monitoring.

If you have any questions regarding this report, please do not hesitate to call me at (315) 956-6316.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

**Alfred R. Farrell, P.E.** Project Manager

 $I:\Obg-Lim.3902\45845.Itt-Acc-Die-O-A\Corres\2nd\ qtr2016Rpt.doc$ 







CC: H. Warner – New York State Department of Environmental Conservation
 T. Slutzky – The Anderson Company
 Jeff Stanek – ITT Corporation
 L. Hall – ITT Corporation
 J. Sutphen – O'Brien & Gere, Office of General Counsel



		Monitoring Re	equirements											
	Discharge	Discharge	Minimum		1									
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	3/31/2016	4/1/2016	4/4/2016	4/5/2016	4/8/2016	4/11/2016	4/12/2016	4/13/2016	4/14/2016	4/15/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	10453	10510	10463	10440	10423	10430	10500	10510	10400	10440
pH (SU)	6.5-8.5		2/Week	Grab	7.86	7.84	7.92	7.86	7.92	7.88	7.9	7.9	7.9	7.9
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	4 U			4 U			6 U			
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	611			634			607			
								0.0002						
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.										
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.				0.01						
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab				1.0 U						
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab				1.0 U						
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						
Toluene (ug/L)	Monitor	20	2/Month	Grab				1.0 U						
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						
					Notes:									
					- Not analyzed,	NA - Data Not	available							
					U - Not Detecte	d, J - Estimated	l, H - Holding tii	mes for preparat	ion or analyses	exceeded, B - Co	ompound found	in the blank and	sample	
					(1) Minimum m	onitoring requir	ements based on	SPEDES permi	t modified Nov	ember, 21, 1997				

		Monitoring Re	equirements											
	Discharge	Discharge	Minimum		1									
Analyte (units)	Limitation	Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Daily Average	Daily Maximum	Frequency (1)	Type	4/18/2016	4/20/2016	4/22/2016	4/26/2016	4/27/2016	4/29/2016	5/2/2016	5/5/2016	5/6/2016	5/10/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	10443	10410	10452	10364	10415	10361	10347	10380	10340	10347
pH (SU)	6.5-8.5		2/Week	Grab	7.9	7.88	7.9	7.92	8.34	8.2	7.94	7.98	7.92	7.94
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	4 U			4 U				4 U		
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	602			634				624		
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.										
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.										
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	1.0 U							1.0 U		
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	1.0 U							1.0 U		
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab	1.0 U							1.0 U		
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab	1.0 U							1.0 U		
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab	1.0 U							1.0 U		
Toluene (ug/L)	Monitor	20	2/Month	Grab	1.0 U							1.0 U		
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	1.0 U							1.0 U		
					Notes:									
						ed, NA - Data l								
							_			exceeded, B - Co	-	in the blank and	sample	
					(1) Minimum m	onitoring requir	ements based on	SPEDES permi	it modified Nove	ember, 21, 1997.				

Analyte (units) Flow (GPD)	Discharge Limitation	Discharge	Minimum											
	Limitation		WIIIIIIIIIII											
Flow (GPD)		Limitation	Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Flow (GPD)	Daily Average	Daily Maximum	Frequency (1)	Type	5/12/2016	5/13/2016	5/16/2016	5/17/2016	5/23/2016	5/24/2016	5/25/2016	5/27/2016	5/31/2016	6/1/2016
TIOW (OLD)	Monitor	150000	Continuous	Meter	10270	10410	10300	10260	10200	10150	10100	10055	10020	9920
pH (SU)	6.5-8.5		2/Week	Grab	7.94	7.88	7.86	7.94	7.91	7.94	7.92	7.92	7.94	7.92
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.			4 U			4 U			4 U	
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.			620			675			623	
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.										
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.										
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab			1.0 U							
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab			1.0 U							
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab			1.0 U							
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab			1.0 U							
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab			1.0 U							
Toluene (ug/L)	Monitor	20	2/Month	Grab			1.0 U							
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab			1.0 U							
					Notes									
					Notes:	ed, NA - Data N	Not available							
					•			nes for preparat	ion or analyses e	exceeded, B - Co	ampound found i	n the blank and	sample	
							_			ember, 21, 1997.	_	ii tiic vialik allu l	sampic	

		Monitoring Re	equirements											
Analyte (units)	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency (1)	Sample Type	Effluent 6/2/2016	Effluent 6/6/2016 9790	Effluent 6/7/2016	Effluent 6/9/2016	Effluent 6/10/2016	Effluent 6/13/2016	Effluent 6/14/2016	Effluent 6/16/2016	Effluent 6/20/2016	Effluent 6/23/2016
Flow (GPD)	Monitor	150000	Continuous	Meter	9930		9870	9835	9570	9530	9320	9330	9112	8875
pH (SU)	6.5-8.5		2/Week	Grab	7.9	7.94	7.92	7.94	7.92	7.9	7.9	7.9	7.92	7.9
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.				4 U		4 U				4 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.				639		666				648
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.										
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.										
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						1.0 U
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						1.0 U
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab				1.0 U						1.0 U
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab				1.0 U						1.0 U
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						1.0 U
Toluene (ug/L)	Monitor	20	2/Month	Grab				1.0 U						1.0 U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab				1.0 U						1.0 U
					Notes:									
						ed, NA - Data	Not available							
					•			mes for preparat	tion or analyses	exceeded, B - Co	ompound found	in the blank and	sample	
					(1) Minimum m	onitoring requir	ements based on	SPEDES perm	nit modified Nov	ember, 21, 1997			-	

		Monitoring Re	omiramente								
Analyte (units)	Discharge Limitation	Discharge Limitation	Minimum  Measurement	Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	
Analyte (units)	Daily Average	Daily Maximum	Frequency (1)	Туре	6/24/2016	6/27/2016	6/28/2016	6/29/2016	6/30/2016	7/1/2016	
Flow (GPD)	Monitor	150000	Continuous	Meter	8700	8557	8530	8360	8280	8230	
pH (SU)	6.5-8.5		2/Week	Grab	7.9	7.92	7.9	7.92	7.9	7.93	
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.			4 U				
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.			636				
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.							
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.							
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab							
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab							
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab							
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab							
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab							
Toluene (ug/L)	Monitor	20	2/Month	Grab							
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab							
	- 11				Notes:						
					Not analyzed,	NA - Data Not	available				
					U - Not Detected,	J - Estimated, H	- Holding times f	for preparation or	analyses exceed	ed, B - Compound found in the blank	and sample
					(1) Minimum mon	itoring requireme	nts based on SPE	EDES permit mod	lified November,	21, 1997.	



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: 480-97383-1

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: 4/13/2016 11:21:45 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

Review your project results through

Total Access

**Have a Question?** 



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

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

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

## **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receint Checklists	14

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12

## **Definitions/Glossary**

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-97383-1

Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97383-1

Job ID: 480-97383-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-97383-1

#### Receipt

The sample was received on 4/1/2016 7:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was  $2.1^{\circ}$  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: 480-97383-1

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<b>Client Sam</b>	ple ID:	<b>EFFLUENT</b>	033116
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Lab	Sample	ID:	480-97383-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	611	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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4.0

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## **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97383-1

**Client Sample ID: EFFLUENT 033116** 

Lab Sample ID: 480-97383-1 Matrix: Water

Date Collected: 03/31/16 07:15 Date Received: 04/01/16 07:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	611		10.0	4.0	mg/L			04/04/16 05:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			04/04/16 16:14	1

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

TestAmerica Job ID: 480-97383-1

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: EFFLUENT 033116

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

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

Lab Sample ID: MB 480-293973/1

**Matrix: Water** 

**Analysis Batch: 293973** 

MB MB

Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 1.0 04/04/16 16:14 Total Suspended Solids  $\overline{\mathsf{ND}}$ 1.0 mg/L

Lab Sample ID: LCS 480-293973/2

**Matrix: Water** 

**Analysis Batch: 293973** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Suspended Solids** 254 252.8 mg/L 99 88 - 110

Lab Sample ID: 480-97383-1 DU

**Matrix: Water** 

**Analysis Batch: 293973** 

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Limit Analyte Unit D **Total Suspended Solids**  $\overline{\mathsf{ND}}$ ND mg/L NC 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-293840/1

**Matrix: Water** 

**Analysis Batch: 293840** 

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids ND 10.0 4.0 mg/L 04/04/16 05:49

Lab Sample ID: LCS 480-293840/2

**Matrix: Water** 

**Analysis Batch: 293840** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Total Dissolved Solids 531 536.0 mg/L 101 85 - 115

TestAmerica Buffalo

## **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97383-1

## **General Chemistry**

### Analysis Batch: 293840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97383-1	EFFLUENT 033116	Total/NA	Water	SM2540 C	
LCS 480-293840/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-293840/1	Method Blank	Total/NA	Water	SM2540 C	

#### **Analysis Batch: 293973**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97383-1	EFFLUENT 033116	Total/NA	Water	SM 2540D	
480-97383-1 DU	EFFLUENT 033116	Total/NA	Water	SM 2540D	
LCS 480-293973/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-293973/1	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: 480-97383-1

Lab Sample ID: 480-97383-1

**Matrix: Water** 

Client Sample ID: EFFLUENT 033116

Date Collected: 03/31/16 07:15 Date Received: 04/01/16 07:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	293973	04/04/16 16:14	MGH	TAL BUF
Total/NA	Analysis	SM2540 C		1	293840	04/04/16 05:49	EKB	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: 480-97383-1

## **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA</b> Region	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

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## **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97383-1

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

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## **Sample Summary**

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

TestAmerica Job ID: 480-97383-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-97383-1	EFFLUENT 033116	Water	03/31/16 07:15	04/01/16 07:00

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TestAmerica Buffalo				
10 Hazelwood Drive	Chain of Custody Record	dy Record		
Amreist, NY 14228-2288 Phone (716) 591-2600 Fax (716) 691-7991				281
Client Information	Sampler. Romanuely		Carrier Track (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Custody
Client Contact: Mr. Yuri Veliz	Phone: 315-739-1300	E-Mail: orlette_johnson@testamericainc.com	Pa	Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Requested		#
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			Š
City. East Syracuse	TAT Requested (days):		( m v c	C - Zn Acetate O - Ashao2
State, Zio: NY, 13221			, m r	
Phone: 315-958-6100(Tel) 315-463-7554(Fax)	PO# 11312000EST		o i	g
Emait Yuri.Veliz@obg.com	, WO#;	(öV) ebi	SA	
Project Name: Former Accurate Die Cast	Project #: 48008584	los pal	sujeju	EDA Z - other (specify)
Site:	SSOW#.	puədən (X) (QS)	Other:	er:
	Sample Type Sample (C=comp,	Matrix (Wwentry School File of	jedinini jej	
Sample Identification	Sample Date   Time   G=grab)   BT-TISSIB_A-B-MI			Special Instructions/Note:
Effluent 033116	3-31-16 12.15		766	
			77 - 15 T	
	/	2/		
	3-36			
Possible Hazard Identification Non-Hazard Pelammable Skin Initant Poison B	on B Unknown Radiological	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month,  Archive For Mon	assessed if samples are retained long Disposal By Lab	onger than 1 month) For Months
ssted: I, II, III, IV, Other (specify)		: Requirent	ιά	
Empty Kit Relinquished by:	Date: /	Time:	Method of Shipment:	
Relinquistred by Forth	16/9:45	Company Received by:	MCSxJ Date/Times -3 (-	- (C COMPAY: C.S.
Relinquished by: PL14 // h Relinquished by:	Date/Time: 6 (9 '00 d. 15 Date/Time: 00m	Company Redelived by Company Received by Received by Company	Date/Time:	0700 Melerrico
Custody Seals Intact: Custody Seal No.:				
· · · · · Ala			12	2

## **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-97383-1

List Source: TestAmerica Buffalo Login Number: 97383

List Number: 1

Creator: Wallace, Cameron

Creator. Wallace, Callieron		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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	



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: 480-97620-1

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: 4/14/2016 11:40:13 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

Review your project results through

Total Access

**Have a Question?** 



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

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

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

## **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

3

4

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9

11

13

14

## **Definitions/Glossary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

#### **Qualifiers**

#### **GC/MS VOA**

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

### **Glossary**

RPD

TEF

TEQ

Ciocoury	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Buffalo

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

Job ID: 480-97620-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-97620-1

#### Receipt

The samples were received on 4/6/2016 1:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### **GC/MS VOA**

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT 040516 (480-97620-3), (480-97620-A-3 MS) and (480-97620-A-3 MSD). Elevated reporting limits (RLs) are provided.

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

#### Metals

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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IR

## **Detection Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

Client Sample ID: EFFLUENT 040516					Lab Sample ID: 480-97620-1			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	634		10.0	4.0	mg/L	1	SM2540 C	Total/NA
Client Sample ID: BET	WEEN CARB	ONS 0405	16			Lab Sa	ample ID: 4	180-97620-2
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L		8260C	Total/NA
Trichloroethene	0.84	J	1.0	0.46	ug/L	1	8260C	Total/NA
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	) Method	Prep Type
Analyte Trichloroethene	Result 350	Qualifier	RL 8.0	MDL 3.7	Unit ug/L	<u>Dil Fac</u> D	Method 8260C	Prep Type Total/NA
_	000		0.0	0.1	ug/L	Ü	02000	1 Otali 1 V
Client Sample ID: EFFL	<b>LUENT 04051</b>	6				Lab Sa	ample ID: 4	<del>1</del> 80-97620-4
No Detections.								
Client Sample ID: INFL	UENI 04051	<u> </u>				Lab Sa	ampie iD: 4	180-97620-
No Detections.								

## Client Sample Results

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

TestAmerica Job ID: 480-97620-1

Client Sample ID: EFFLUENT 040516

 $\overline{\mathsf{ND}}$ 

Date Collected: 04/05/16 07:30 Date Received: 04/06/16 01:55

Lab Sample ID: 480-97620-1

**Matrix: Water** 

Method: 6010C - Metals (ICP) Result Qualifier RI **MDL** Unit D Dil Fac Analyte Prepared Analyzed Zinc  $\overline{\mathsf{ND}}$ 0.010 0.0015 mg/L 04/06/16 10:10 04/06/16 18:17 Method: 7470A - Mercury (CVAA) Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 0.00020 0.00012 mg/L 04/07/16 08:30 04/07/16 12:33 Mercury ND **General Chemistry** Result Qualifier Unit Analyzed Analyte RL MDL D Prepared Dil Fac 634 10.0 4.0 ma/L 04/06/16 17:45 **Total Dissolved Solids** Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac

Client Sample ID: BETWEEN CARBONS 040516 Lab Sample ID: 480-97620-2

4.0

4.0 mg/L

Date Collected: 04/05/16 07:30 Date Received: 04/06/16 01:55

Total Suspended Solids

**Matrix: Water** 

04/07/16 10:42

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier **MDL** Unit Dil Fac RL D Prepared Analyzed 1,1,2,2-Tetrachloroethane  $\overline{\mathsf{ND}}$ 1.0 0.21 ug/L 04/13/16 14:47 1.0 04/13/16 14:47 cis-1,2-Dichloroethene 1.9 0.81 ug/L Methylene Chloride ND 1.0 0.44 04/13/16 14:47 ug/L ND Tetrachloroethene 1.0 0.36 ug/L 04/13/16 14:47 Toluene ND 1.0 0.51 ug/L 04/13/16 14:47 trans-1,2-Dichloroethene 0.90 ug/L ND 1.0 04/13/16 14:47 **Trichloroethene** 0.84 J 1.0 0.46 ug/L 04/13/16 14:47

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114	66 - 137		04/13/16 14:47	1
4-Bromofluorobenzene (Surr)	101	73 - 120		04/13/16 14:47	1
Toluene-d8 (Surr)	101	71 - 126		04/13/16 14:47	1
Dibromofluoromethane (Surr)	111	60 - 140		04/13/16 14:47	1

Client Sample ID: INFLUENT 040516 Lab Sample ID: 480-97620-3

Date Collected: 04/05/16 07:30 **Matrix: Water** Date Received: 04/06/16 01:55

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier Dil Fac Analyte RL **MDL** Unit D Prepared Analyzed 1,1,2,2-Tetrachloroethane  $\overline{\mathsf{ND}}$ 8.0 1.7 ug/L 04/13/16 15:14 cis-1,2-Dichloroethene ND 8.0 6.5 ug/L 04/13/16 15:14 R Methylene Chloride ND 8.0 3.5 ug/L 04/13/16 15:14 8 ND 8.0 2.9 8 Tetrachloroethene ug/L 04/13/16 15:14 Toluene ND 8.0 4.1 ug/L 04/13/16 15:14 8 trans-1.2-Dichloroethene ND 8.0 8 7.2 ug/L 04/13/16 15:14 **Trichloroethene** 350 8.0 3.7 ug/L 04/13/16 15:14 8 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 114 66 - 137 04/13/16 15:14 8 4-Bromofluorobenzene (Surr) 102 73 - 120 04/13/16 15:14 8 Toluene-d8 (Surr) 102 71 - 126 04/13/16 15:14 8

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Page 6 of 19

## **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

Client Sample ID: INFLUENT 040516

Date Collected: 04/05/16 07:30 Date Received: 04/06/16 01:55 Lab Sample ID: 480-97620-3

04/13/16 15:40

04/13/16 15:40

04/07/16 08:30 04/07/16 12:35

**Matrix: Water** 

Matrix: Water

6

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

100

109

ND

Surrogate%Recovery<br/>Dibromofluoromethane (Surr)Qualifier<br/>111Limits<br/>60 - 140Prepared<br/>60 - 140Analyzed<br/>04/13/16 15:14Dil Fac<br/>04/13/16 15:14

Client Sample ID: EFFLUENT 040516 Lab Sample ID: 480-97620-4

Date Collected: 04/05/16 07:30 Matrix: Water

Date Received: 04/06/16 01:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/13/16 15:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/13/16 15:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/13/16 15:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/13/16 15:40	1
Toluene	ND		1.0	0.51	ug/L			04/13/16 15:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/13/16 15:40	1
Trichloroethene	ND		1.0	0.46	ug/L			04/13/16 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		66 - 137			-		04/13/16 15:40	1
4-Bromofluorobenzene (Surr)	102		73 - 120					04/13/16 15:40	1

Client Sample ID: INFLUENT 040516 Lab Sample ID: 480-97620-5

71 - 126

60 - 140

Date Collected: 04/05/16 07:30

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Mercury

Date Received: 04/06/16 01:55

Method: 6010C - Metals (ICP) Analyte Zinc	Result	Qualifier	RL 0.010	<b>MDL</b> 0.0015		D	Prepared 04/06/16 10:10	Analyzed 04/06/16 18:20	Dil Fac	
Method: 7470A - Mercury (CVAA) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	

0.00020

0.00012 mg/L

4/14/2016

## **Surrogate Summary**

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

TestAmerica Job ID: 480-97620-1

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

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

			PE	ercent Surro	ogate Reco
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)	(60-140)
480-97620-2	BETWEEN CARBONS 040516	114	101	101	111
480-97620-3	INFLUENT 040516	114	102	102	111
480-97620-3 MS	INFLUENT 040516	111	106	97	113
480-97620-3 MSD	INFLUENT 040516	106	106	101	110
480-97620-4	EFFLUENT 040516	113	102	100	109
LCS 480-295540/4	Lab Control Sample	112	107	102	109
MB 480-295540/6	Method Blank	113	99	102	112

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Buffalo

Page 8 of 19

TestAmerica Job ID: 480-97620-1

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

Lab Sample ID: MB 480-295540/6

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

Client Sample ID: Method Blank

Prep Type: Total/NA

**Matrix: Water** Analysis Batch: 295540

<b>,</b>									
-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/13/16 12:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/13/16 12:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/13/16 12:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/13/16 12:24	1
Toluene	ND		1.0	0.51	ug/L			04/13/16 12:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/13/16 12:24	1
Trichloroethene	ND		1.0	0.46	ug/L			04/13/16 12:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		66 - 137		04/13/16 12:24	1
4-Bromofluorobenzene (Surr)	99		73 - 120		04/13/16 12:24	1
Toluene-d8 (Surr)	102		71 - 126		04/13/16 12:24	1
Dibromofluoromethane (Surr)	112		60 - 140		04/13/16 12:24	1
	1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	1,2-Dichloroethane-d4 (Surr)       113         4-Bromofluorobenzene (Surr)       99         Toluene-d8 (Surr)       102	1,2-Dichloroethane-d4 (Surr) 113 4-Bromofluorobenzene (Surr) 99 Toluene-d8 (Surr) 102	1,2-Dichloroethane-d4 (Surr)       113       66 - 137         4-Bromofluorobenzene (Surr)       99       73 - 120         Toluene-d8 (Surr)       102       71 - 126	1,2-Dichloroethane-d4 (Surr)       113       66 - 137         4-Bromofluorobenzene (Surr)       99       73 - 120         Toluene-d8 (Surr)       102       71 - 126	1,2-Dichloroethane-d4 (Surr)       113       66 - 137       04/13/16 12:24         4-Bromofluorobenzene (Surr)       99       73 - 120       04/13/16 12:24         Toluene-d8 (Surr)       102       71 - 126       04/13/16 12:24

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 295540

Lab Sample ID: LCS 480-295540/4

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	74 - 124	
Tetrachloroethene	25.0	24.6		ug/L		98	74 - 122	
Toluene	25.0	22.3		ug/L		89	80 - 122	
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127	
Trichloroethene	25.0	23.8		ug/L		95	74 - 123	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	102		71 - 126
Dibromofluoromethane (Surr)	109		60 - 140

**Client Sample ID: INFLUENT 040516** Prep Type: Total/NA

Analysis Batch: 295540

**Matrix: Water** 

Lab Sample ID: 480-97620-3 MS

,	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	ND		200	186	-	ug/L		93	74 - 124	
Tetrachloroethene	ND		200	194		ug/L		97	74 - 122	
Toluene	ND		200	174		ug/L		87	80 - 122	
trans-1,2-Dichloroethene	ND		200	194		ug/L		97	73 - 127	
Trichloroethene	350	F1	200	522		ug/L		84	74 - 123	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	97		71 - 126
Dibromofluoromethane (Surr)	113		60 - 140

TestAmerica Buffalo

Page 9 of 19

TestAmerica Job ID: 480-97620-1

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

Lab Sample ID: 480-97620-3 MSD Client Sample ID: INFLUENT 040516 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 295540

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	ND		200	176		ug/L		88	74 - 124	5	15
Tetrachloroethene	ND		200	192		ug/L		96	74 - 122	1	20
Toluene	ND		200	175		ug/L		88	80 - 122	0	15
trans-1,2-Dichloroethene	ND		200	180		ug/L		90	73 - 127	8	20
Trichloroethene	350	F1	200	490	F1	ug/L		68	74 - 123	6	16

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 106 66 - 137 4-Bromofluorobenzene (Surr) 106 73 - 120 Toluene-d8 (Surr) 101 71 - 126 Dibromofluoromethane (Surr) 110 60 - 140

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-294238/1-A **Client Sample ID: Method Blank** 

**Matrix: Water** 

Analyte

**Analysis Batch: 294434** 

MB MB Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyzed

0.010 04/06/16 10:10 04/06/16 17:15 Zinc ND 0.0015 mg/L Lab Sample ID: LCS 480-294238/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Water** 

**Analysis Batch: 294434** 

Spike LCS LCS %Rec. Limits Added Result Qualifier D %Rec Analyte Unit 0.200 Zinc 0.200 mg/L 100 80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-294431/1-A Client Sample ID: Method Blank

**Matrix: Water** 

Prep Type: Total/NA **Analysis Batch: 294592 Prep Batch: 294431** MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Mercury  $\overline{\mathsf{ND}}$ 0.00020 0.00012 mg/L 04/07/16 08:30 04/07/16 12:06

Lab Sample ID: LCS 480-294431/2-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 294592** 

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

Mercury 0.00667 0.00647 97 80 - 120 mg/L

Lab Sample ID: LCSD 480-294431/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 294592 Prep Batch: 294431** 

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 0.00667 98 80 - 120 Mercury 0.00653 mg/L

TestAmerica Buffalo

**Prep Batch: 294431** 

Prep Type: Total/NA

Prep Batch: 294238

Prep Type: Total/NA

Prep Batch: 294238

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

TestAmerica Job ID: 480-97620-1

Client Sample ID: Lab Control Sample

Client Sample ID: EFFLUENT 040516

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 480-294516/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 294516

MB MB Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed Dil Fac 1.0 04/07/16 10:42 Total Suspended Solids  $\overline{\mathsf{ND}}$ 1.0 mg/L

Lab Sample ID: LCS 480-294516/2

**Matrix: Water** 

**Analysis Batch: 294516** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec 225 **Total Suspended Solids** 225.6 mg/L 100 88 - 110

Lab Sample ID: 480-97620-1 DU

**Matrix: Water** 

Analysis Batch: 294516

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Limit Analyte Unit D **Total Suspended Solids**  $\overline{\mathsf{ND}}$ ND mg/L 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-294362/1

**Matrix: Water** 

**Analysis Batch: 294362** 

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac Total Dissolved Solids ND 10.0 4.0 mg/L 04/06/16 17:45

Lab Sample ID: LCS 480-294362/2

**Matrix: Water** 

**Analysis Batch: 294362** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Total Dissolved Solids 531 513.0 mg/L 97 85 - 115

TestAmerica Buffalo

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

TestAmerica Job ID: 480-97620-1

#### **GC/MS VOA**

Analysis Batch: 295540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-2	BETWEEN CARBONS 040516	Total/NA	Water	8260C	
480-97620-3	INFLUENT 040516	Total/NA	Water	8260C	
480-97620-3 MS	INFLUENT 040516	Total/NA	Water	8260C	
480-97620-3 MSD	INFLUENT 040516	Total/NA	Water	8260C	
480-97620-4	EFFLUENT 040516	Total/NA	Water	8260C	
LCS 480-295540/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-295540/6	Method Blank	Total/NA	Water	8260C	

#### Metals

**Prep Batch: 294238** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-1	EFFLUENT 040516	Total/NA	Water	3005A	<u> </u>
480-97620-5	INFLUENT 040516	Total/NA	Water	3005A	
LCS 480-294238/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-294238/1-A	Method Blank	Total/NA	Water	3005A	

#### **Prep Batch: 294431**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-1	EFFLUENT 040516	Total/NA	Water	7470A	<del>_</del> <del></del>
480-97620-5	INFLUENT 040516	Total/NA	Water	7470A	
LCS 480-294431/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-294431/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 480-294431/1-A	Method Blank	Total/NA	Water	7470A	

#### **Analysis Batch: 294434**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-1	EFFLUENT 040516	Total/NA	Water	6010C	294238
480-97620-5	INFLUENT 040516	Total/NA	Water	6010C	294238
LCS 480-294238/2-A	Lab Control Sample	Total/NA	Water	6010C	294238
MB 480-294238/1-A	Method Blank	Total/NA	Water	6010C	294238

#### **Analysis Batch: 294592**

Lab Sample ID 480-97620-1	Client Sample ID EFFLUENT 040516	Prep Type Total/NA	Matrix Water	<b>Method</b> 7470A	Prep Batch 294431
480-97620-5	INFLUENT 040516	Total/NA	Water	7470A	294431
LCS 480-294431/2-A	Lab Control Sample	Total/NA	Water	7470A	294431
LCSD 480-294431/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	294431
MB 480-294431/1-A	Method Blank	Total/NA	Water	7470A	294431

### **General Chemistry**

#### **Analysis Batch: 294362**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-1	EFFLUENT 040516	Total/NA	Water	SM2540 C	
LCS 480-294362/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-294362/1	Method Blank	Total/NA	Water	SM2540 C	

Page 12 of 19

## **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

## **General Chemistry (Continued)**

### Analysis Batch: 294516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97620-1	EFFLUENT 040516	Total/NA	Water	SM 2540D	
480-97620-1 DU	EFFLUENT 040516	Total/NA	Water	SM 2540D	
LCS 480-294516/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-294516/1	Method Blank	Total/NA	Water	SM 2540D	

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TestAmerica Job ID: 480-97620-1

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

**Client Sample ID: EFFLUENT 040516** 

Lab Sample ID: 480-97620-1

**Matrix: Water** 

Date Collected: 04/05/16 07:30 Date Received: 04/06/16 01:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			294238	04/06/16 10:10	CMM	TAL BUF
Total/NA	Analysis	6010C		1	294434	04/06/16 18:17	AMH	TAL BUF
Total/NA	Prep	7470A			294431	04/07/16 08:30	TAS	TAL BUF
Total/NA	Analysis	7470A		1	294592	04/07/16 12:33	TAS	TAL BUF
Total/NA	Analysis	SM 2540D		1	294516	04/07/16 10:42	EKB	TAL BUF
Total/NA	Analysis	SM2540 C		1	294362	04/06/16 17:45	MGH	TAL BUF

Lab Sample ID: 480-97620-2 Client Sample ID: BETWEEN CARBONS 040516

Date Collected: 04/05/16 07:30

Matrix: Water

Date Received: 04/06/16 01:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			295540	04/13/16 14:47	RRS	TAL BUF

Client Sample ID: INFLUENT 040516 Lab Sample ID: 480-97620-3

Date Collected: 04/05/16 07:30

**Matrix: Water** 

Date Received: 04/06/16 01:55

Γ	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C		8	295540	04/13/16 15:14	RRS	TAL BUF	

Client Sample ID: EFFLUENT 040516 Lab Sample ID: 480-97620-4

Date Collected: 04/05/16 07:30

Date Received: 04/06/16 01:55

í	_								
ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	8260C	<del></del>		295540	04/13/16 15:40	RRS	TAL BUF

Lab Sample ID: 480-97620-5 Client Sample ID: INFLUENT 040516

Date Collected: 04/05/16 07:30

Date Received: 04/06/16 01:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			294238	04/06/16 10:10	CMM	TAL BUF
Total/NA	Analysis	6010C		1	294434	04/06/16 18:20	AMH	TAL BUF
Total/NA	Prep	7470A			294431	04/07/16 08:30	TAS	TAL BUF
Total/NA	Analysis	7470A		1	294592	04/07/16 12:35	TAS	TAL BUF

**Laboratory References:** 

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

TestAmerica Buffalo

**Matrix: Water** 

**Matrix: Water** 

## **Certification Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
1	New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-97620-1

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

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# **Sample Summary**

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

TestAmerica Job ID: 480-97620-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-97620-1	EFFLUENT 040516	Water	04/05/16 07:30	04/06/16 01:55
480-97620-2	BETWEEN CARBONS 040516	Water	04/05/16 07:30	04/06/16 01:55
480-97620-3	INFLUENT 040516	Water	04/05/16 07:30	04/06/16 01:55
480-97620-4	EFFLUENT 040516	Water	04/05/16 07:30	04/06/16 01:55
480-97620-5	INFLUENT 040516	Water	04/05/16 07:30	04/06/16 01:55

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10 Hazelwood Drive Amherst. NY 14228-2298	Chain of Custody Record	ly Record	lestAmerico
Phone (716) 691-2600 Fax (716) 691-7991			THE LEADER IN ENVIRONMENTAL RESTAL
Client Information	Sempley RAIN Koewells	Lab PM: Carrier Johnson, Orlette S	
Client Contact Mr. Yuri Veliz	7-1300	E-Mail: orlette.johnson@testamericainc.com	
Company: O'Brien & Gere Inc of North America	ļ	Analysis Requestr	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:		480-97620 Chain of Custody
City. East Syracuse	TAT Requested (days):		B - NAOH IN - INUTE
State, Ztp. NY, 13221		772	D - Nitric Acid P - Na2O4S
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO#. 11312000EST	sp	F - MeCun R - Na252U3 G - Amchlor R - Na252U3 HZ OL -
Emait: Yuri.Veliz@obg.com	WO#:	ebil ebil	I - Iœ J - Di Water
Project Name: Former Accurate Die Cast	Project #. 48008584	ios par	Fig.   K - EDTA   W - ph 4-5   Eg.   L - EDA   Z - other (specify)
Site:	:SSOW#:	Y) (DS) nependal Disto Organ	ot co Other.
Samula Identification	Sample (C=comp.	Wewpater (** ** ** ** ** ** ** ** ** ** ** ** **	Todini Number
	Preservation	N N X	
Effluent O405/L	4-5-16 7:30 C Wa	Water	
Between Carbons $O405/C$	9	Water 3	i Ny
Inffluent 040516	4-5-16 9:30 B WE	Water     3	85
ERLUNT 040516	4-5-16 17:30 6 wotar	tar 3	8
INFLUENT O40516	4-5-16 7:30 C with	tre	K
	5.0		
	3		
	11/5/16		
	•		
Possible Hazard Identification		Sample Disposal ( A fee may be assess	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
le Skin Imitant (V) Other (specify)	Poison B 🗀 Unknown 🗀 Radiological	Special Instructions/OC Requirements:	Disposal By Lab Archive For Months
	G 🗸		ske od of Distance
Empty Kit Kelinquished by:	Date:	I'me:	Metriod of Shipmen:
Kelinquished Diff Kelindun	4-5-16 10:20 Company	BC MILLETT	1-5-16, 10:20
Refinantished by:	14, 19:00	Ly A Reference by:	Deferrine Company
Custody Seals Intact: Custody Seal No.:  A Yes A No		Cooler Temperature(s) 'C and Other Kemarks:	2,6 #1

TestAmerica

TestAmerica Buffalo 10 Hazelwood Drive

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-97620-1

Login Number: 97620 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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

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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: 480-98138-1

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: 4/25/2016 12:07:13 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

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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.

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

6

4

8

46

11

12

# **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-98138-1

# Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98138-1

Job ID: 480-98138-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-98138-1

#### Receipt

The sample was received on 4/13/2016 1:10 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° 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: 480-98138-1

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# Client Sample ID: EFFLUENT 041216

Lab	Sample	ID:	480-9	98138-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	607		10.0	4.0	mg/L	1	_	SM2540 C	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	6.0		4.0	4.0	mg/L	1	_	SM 2540D	Total/NA

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Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98138-1

Client Sample ID: EFFLUENT 041216 Lab Sample ID: 480-98138-1

Date Collected: 04/12/16 07:15 Matrix: Water

Date Received: 04/13/16 01:10

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	607		10.0	4.0	mg/L			04/15/16 15:52	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	6.0		4.0	4.0	mg/L			04/18/16 09:11	1

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

TestAmerica Job ID: 480-98138-1

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: EFFLUENT 041216

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 480-296509/1

**Matrix: Water** 

Analysis Batch: 296509

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 04/18/16 09:11 Total Suspended Solids ND 1.0 mg/L

Lab Sample ID: LCS 480-296509/2

**Matrix: Water** 

**Analysis Batch: 296509** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec Total Suspended Solids 266 266.0 mg/L 100 88 - 110

Lab Sample ID: 480-98138-1 DU

**Matrix: Water** 

Analysis Batch: 296509

	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Total Suspended Solids	6.0		 6.40		mg/L		 	6	10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-296235/1

**Matrix: Water** 

**Analysis Batch: 296235** 

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 04/15/16 15:52

Lab Sample ID: LCS 480-296235/2

**Matrix: Water** 

**Analysis Batch: 296235** 

_	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	515	480.0		ma/l	_	93	85 - 115

TestAmerica Buffalo

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98138-1

# **General Chemistry**

#### Analysis Batch: 296235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98138-1	EFFLUENT 041216	Total/NA	Water	SM2540 C	
LCS 480-296235/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-296235/1	Method Blank	Total/NA	Water	SM2540 C	

#### **Analysis Batch: 296509**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98138-1	EFFLUENT 041216	Total/NA	Water	SM 2540D	
480-98138-1 DU	EFFLUENT 041216	Total/NA	Water	SM 2540D	
LCS 480-296509/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-296509/1	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

**Client Sample ID: EFFLUENT 041216** 

TestAmerica Job ID: 480-98138-1

Lab Sample ID: 480-98138-1

**Matrix: Water** 

Date Collected: 04/12/16 07:15 Date Received: 04/13/16 01:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	296509	04/18/16 09:11	EKB	TAL BUF
Total/NA	Analysis	SM2540 C		1	296235	04/15/16 15:52	ELR	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: 480-98138-1

**Laboratory: TestAmerica Buffalo** 

The certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
1	New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98138-1

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

TestAmerica Buffalo

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# **Sample Summary**

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

TestAmerica Job ID: 480-98138-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-98138-1	EFFLUENT 041216	Water	04/12/16 07:15	04/13/16 01:10

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# **TestAmerica Buffalo**

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-98138-1

Login Number: 98138 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Buffalo

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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: 480-98516-1

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: 4/28/2016 8:15:46 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

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**Have a Question?** 



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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.

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

3

4

6

R

9

11

12

14

# **Definitions/Glossary**

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

TestAmerica Job ID: 480-98516-1

#### **Qualifiers**

#### **GC/MS VOA**

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

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CNF** Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL, 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 MLMinimum Level (Dioxin) NC Not Calculated

Not detected at the reporting limit (or MDL or EDL if shown) ND

**PQL Practical Quantitation Limit** 

**Quality Control** QC Relative error ratio **RER** 

RL Reporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ** 

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98516-1

Job ID: 480-98516-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-98516-1

#### Receipt

The samples were received on 4/19/2016 12:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° 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: 480-98516-1

Client Sample ID: EFFLUENT 041816 Lab Sample ID: 480-98516-1

Analyte Result Qualifier RL **MDL** Unit Dil Fac D Method **Prep Type** Total/NA SM2540 C **Total Dissolved Solids** 10.0 4.0 mg/L 602

Lab Sample ID: 480-98516-2 Client Sample ID: EFFLUENT 041816

No Detections.

Client Sample ID: TRIP BLANK Lab Sample ID: 480-98516-3

Result Qualifier RL Analyte MDL Unit Dil Fac D Method **Prep Type** 4.2 J 10 Acetone 3.0 ug/L 8260C Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: EFFLUENT 041816

TestAmerica Job ID: 480-98516-1

Lab Sample ID: 480-98516-1

Matrix: Water

Date Collected: 04/18/16 07:30 Date Received: 04/19/16 00:45

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	602		10.0	4.0	mg/L			04/22/16 03:02	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			04/22/16 16:43	1

Client Sample ID: EFFLUENT 041816 Lab Sample ID: 480-98516-2

Date Collected: 04/18/16 07:30 Matrix: Water

Date Received: 04/19/16 00:45

Method: 8260C - Volatile Organ Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			04/26/16 11:11	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/26/16 11:11	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/26/16 11:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/26/16 11:11	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/26/16 11:11	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/26/16 11:11	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/26/16 11:11	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/26/16 11:11	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/26/16 11:11	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/26/16 11:11	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			04/26/16 11:11	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/26/16 11:11	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			04/26/16 11:11	1
2-Butanone (MEK)	ND	10	1.3	ug/L			04/26/16 11:11	1
2-Hexanone	ND	5.0	1.2	ug/L			04/26/16 11:11	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			04/26/16 11:11	1
Acetone	ND	10	3.0	ug/L			04/26/16 11:11	1
Benzene	ND	1.0	0.41	ug/L			04/26/16 11:11	1
Bromodichloromethane	ND	1.0	0.39	ug/L			04/26/16 11:11	1
Bromoform	ND	1.0	0.26	ug/L			04/26/16 11:11	1
Bromomethane	ND	1.0	0.69	ug/L			04/26/16 11:11	1
Carbon disulfide	ND	1.0	0.19	ug/L			04/26/16 11:11	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			04/26/16 11:11	1
Chlorobenzene	ND	1.0	0.75	ug/L			04/26/16 11:11	1
Dibromochloromethane	ND	1.0	0.32	ug/L			04/26/16 11:11	1
Chloroethane	ND	1.0	0.32	ug/L			04/26/16 11:11	1
Chloroform	ND	1.0	0.34	ug/L			04/26/16 11:11	1
Chloromethane	ND	1.0	0.35	ug/L			04/26/16 11:11	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			04/26/16 11:11	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			04/26/16 11:11	1
Cyclohexane	ND	1.0	0.18	ug/L			04/26/16 11:11	1
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			04/26/16 11:11	1
Ethylbenzene	ND	1.0	0.74	ug/L			04/26/16 11:11	1
1,2-Dibromoethane	ND	1.0	0.73	ug/L			04/26/16 11:11	1
Isopropylbenzene	ND	1.0	0.79	-			04/26/16 11:11	1
Methyl acetate	ND	2.5	1.3	ug/L			04/26/16 11:11	1
Methyl tert-butyl ether	ND	1.0		ug/L			04/26/16 11:11	1
Methylcyclohexane	ND	1.0		ug/L			04/26/16 11:11	1
Methylene Chloride	ND	1.0	0.44	_			04/26/16 11:11	1

TestAmerica Buffalo

Page 6 of 19

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

TestAmerica Job ID: 480-98516-1

Client Sample ID: EFFLUENT 041816

Date Collected: 04/18/16 07:30 Date Received: 04/19/16 00:45 Lab Sample ID: 480-98516-2

Matrix: Water

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	1.0	0.73	ug/L			04/26/16 11:11	1
Tetrachloroethene	ND	1.0	0.36	ug/L			04/26/16 11:11	1
Toluene	ND	1.0	0.51	ug/L			04/26/16 11:11	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			04/26/16 11:11	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			04/26/16 11:11	1
Trichloroethene	ND	1.0	0.46	ug/L			04/26/16 11:11	1
Trichlorofluoromethane	ND	1.0	0.88	ug/L			04/26/16 11:11	1
Vinyl chloride	ND	1.0	0.90	ug/L			04/26/16 11:11	1
Xylenes, Total	ND	2.0	0.66	ug/L			04/26/16 11:11	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99	71 - 126		04/26/16 11:11	1
1,2-Dichloroethane-d4 (Surr)	102	66 - 137		04/26/16 11:11	1
4-Bromofluorobenzene (Surr)	96	73 - 120		04/26/16 11:11	1
Dibromofluoromethane (Surr)	100	60 - 140		04/26/16 11:11	1

**Client Sample ID: TRIP BLANK** 

Date Collected: 04/18/16 00:00 Date Received: 04/19/16 00:45 Lab Sample ID: 480-98516-3

**Matrix: Water** 

Method: 8260C - Volatile Orgar Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/16 11:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/26/16 11:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/26/16 11:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/26/16 11:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/26/16 11:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/26/16 11:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/26/16 11:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/26/16 11:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/26/16 11:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/26/16 11:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/26/16 11:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/26/16 11:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/26/16 11:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/26/16 11:38	1
2-Hexanone	ND		5.0	1.2	ug/L			04/26/16 11:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/26/16 11:38	1
Acetone	4.2	J	10	3.0	ug/L			04/26/16 11:38	1
Benzene	ND		1.0	0.41	ug/L			04/26/16 11:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/26/16 11:38	1
Bromoform	ND		1.0	0.26	ug/L			04/26/16 11:38	1
Bromomethane	ND		1.0	0.69	ug/L			04/26/16 11:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/26/16 11:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/26/16 11:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/26/16 11:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/26/16 11:38	1
Chloroethane	ND		1.0	0.32	ug/L			04/26/16 11:38	1
Chloroform	ND		1.0	0.34	ug/L			04/26/16 11:38	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/16 11:38	1

TestAmerica Buffalo

Page 7 of 19

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98516-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-98516-3

Date Collected: 04/18/16 00:00 Matrix: Water Date Received: 04/19/16 00:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/26/16 11:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/26/16 11:38	1
Cyclohexane	ND		1.0	0.18	ug/L			04/26/16 11:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/26/16 11:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/16 11:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/26/16 11:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/26/16 11:38	1
Methyl acetate	ND		2.5	1.3	ug/L			04/26/16 11:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/16 11:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/26/16 11:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/26/16 11:38	1
Styrene	ND		1.0	0.73	ug/L			04/26/16 11:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/26/16 11:38	1
Toluene	ND		1.0	0.51	ug/L			04/26/16 11:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/26/16 11:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/26/16 11:38	1
Trichloroethene	ND		1.0	0.46	ug/L			04/26/16 11:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/26/16 11:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/26/16 11:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/16 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126			-		04/26/16 11:38	1
1,2-Dichloroethane-d4 (Surr)	97		66 - 137					04/26/16 11:38	1
4-Bromofluorobenzene (Surr)	97		73 - 120					04/26/16 11:38	1
Dibromofluoromethane (Surr)	97		60 - 140					04/26/16 11:38	1

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# **Surrogate Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98516-1

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

Matrix: Water Prep Type: Total/NA

_			Pe	ercent Surro	ogate Reco
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-126)	(66-137)	(73-120)	(60-140)
480-98516-2	EFFLUENT 041816	99	102	96	100
480-98516-3	TRIP BLANK	101	97	97	97
LCS 480-298186/5	Lab Control Sample	100	97	99	94
MB 480-298186/7	Method Blank	98	100	95	102

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-98516-1

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

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

Lab Sample ID: MB 480-298186/7

Matrix: Water

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

Analysis Batch: 298186	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		<del>-</del>	04/26/16 10:32	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/26/16 10:32	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/26/16 10:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/26/16 10:32	• • • • • • • •
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/26/16 10:32	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/26/16 10:32	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/26/16 10:32	•
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/26/16 10:32	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/26/16 10:32	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/26/16 10:32	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/26/16 10:32	
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/26/16 10:32	•
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/26/16 10:32	,
2-Butanone (MEK)	ND		10	1.3	ug/L			04/26/16 10:32	
2-Hexanone	ND		5.0	1.2	ug/L			04/26/16 10:32	
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/26/16 10:32	• • • • • • • • • • • • • • • • • • • •
Acetone	ND		10	3.0	ug/L			04/26/16 10:32	
Benzene	ND		1.0	0.41	ug/L			04/26/16 10:32	
Bromodichloromethane	ND		1.0		ug/L			04/26/16 10:32	
Bromoform	ND		1.0	0.26	ug/L			04/26/16 10:32	
Bromomethane	ND		1.0		ug/L			04/26/16 10:32	
Carbon disulfide	ND		1.0	0.19	ug/L			04/26/16 10:32	•
Carbon tetrachloride	ND		1.0		ug/L			04/26/16 10:32	
Chlorobenzene	ND		1.0	0.75	ug/L			04/26/16 10:32	
Dibromochloromethane	ND		1.0	0.32	ug/L			04/26/16 10:32	• • • • • • • • •
Chloroethane	ND		1.0	0.32	ug/L			04/26/16 10:32	
Chloroform	ND		1.0	0.34	ug/L			04/26/16 10:32	
Chloromethane	ND		1.0	0.35	ug/L			04/26/16 10:32	• • • • • • • • • • • • • • • • • • • •
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/26/16 10:32	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/26/16 10:32	
Cyclohexane	ND		1.0	0.18	ug/L			04/26/16 10:32	,
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/26/16 10:32	
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/16 10:32	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/26/16 10:32	
Isopropylbenzene	ND		1.0	0.79	ug/L			04/26/16 10:32	
Methyl acetate	ND		2.5	1.3	ug/L			04/26/16 10:32	•
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/16 10:32	
Methylcyclohexane	ND		1.0	0.16	ug/L			04/26/16 10:32	•
Methylene Chloride	ND		1.0	0.44	ug/L			04/26/16 10:32	•
Styrene	ND		1.0	0.73	ug/L			04/26/16 10:32	
Tetrachloroethene	ND		1.0	0.36	ug/L			04/26/16 10:32	•
Toluene	ND		1.0	0.51	ug/L			04/26/16 10:32	•
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/26/16 10:32	
trans-1,3-Dichloropropene	ND		1.0		ug/L			04/26/16 10:32	
Trichloroethene	ND		1.0	0.46	ug/L			04/26/16 10:32	•
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/26/16 10:32	
Vinyl chloride	ND		1.0		ug/L			04/26/16 10:32	
Xylenes, Total	ND		2.0		ug/L			04/26/16 10:32	

TestAmerica Buffalo

Page 10 of 19

4/28/2016

3

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12

# **QC Sample Results**

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

TestAmerica Job ID: 480-98516-1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98	71 - 126		04/26/16 10:32	1
1,2-Dichloroethane-d4 (Surr)	100	66 - 137		04/26/16 10:32	1
4-Bromofluorobenzene (Surr)	95	73 - 120		04/26/16 10:32	1
Dibromofluoromethane (Surr)	102	60 - 140		04/26/16 10:32	1

Lab Sample ID: LCS 480-298186/5

**Matrix: Water** 

Analysis Batch: 298186

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

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 126
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	26.4		ug/L		105	52 - 148
1,1-Dichloroethane	25.0	22.6		ug/L		91	71 <sub>-</sub> 129
1,1-Dichloroethene	25.0	22.0		ug/L		88	58 <sub>-</sub> 121
1,2,4-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	56 - 134
1,2-Dichlorobenzene	25.0	22.9		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	22.5		ug/L		90	75 - 127
1,2-Dichloropropane	25.0	23.8		ug/L		95	76 <sub>-</sub> 120
1,3-Dichlorobenzene	25.0	22.8		ug/L		91	77 <sub>-</sub> 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	75 - 120
2-Butanone (MEK)	125	122		ug/L		97	57 - 140
2-Hexanone	125	129		ug/L		103	65 - 127
1-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	22.7		ug/L		91	71 - 124
Bromodichloromethane	25.0	23.7		ug/L		95	80 - 122
Bromoform	25.0	25.1		ug/L		100	52 - 132
Bromomethane	25.0	22.6		ug/L		90	55 - 144
Carbon disulfide	25.0	20.9		ug/L		83	59 - 134
Carbon tetrachloride	25.0	21.6		ug/L		87	72 - 134
Chlorobenzene	25.0	23.2		ug/L		93	72 - 120
Dibromochloromethane	25.0	24.5		ug/L		98	75 - 125
Chloroethane	25.0	21.9		ug/L		88	69 - 136
Chloroform	25.0	22.2		ug/L		89	73 - 127
Chloromethane	25.0	20.7		ug/L		83	68 - 124
sis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	74 - 124
Cyclohexane	25.0	20.1		ug/L		80	59 - 135
Dichlorodifluoromethane	25.0	20.3		ug/L		81	59 <sub>-</sub> 135
Ethylbenzene	25.0	23.6		ug/L		95	77 <sub>-</sub> 123
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
sopropylbenzene	25.0	23.9		ug/L		96	77 - 122
Methyl acetate	125	113		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	22.8		ug/L		91	64 - 127
Methylcyclohexane	25.0	21.6		ug/L		86	61 - 138
Methylene Chloride	25.0	23.3		ug/L		93	57 - 132
Styrene	25.0	23.9		ug/L		96	70 - 130
Tetrachloroethene	25.0	21.7		ug/L		87	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	21.4		ug/L		85	73 - 127

TestAmerica Buffalo

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TestAmerica Job ID: 480-98516-1

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

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

Lab Sample ID: LCS 480-298186/5

**Matrix: Water** 

**Analysis Batch: 298186** 

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	72 - 123	
Trichloroethene	25.0	21.8		ug/L		87	74 - 123	
Trichlorofluoromethane	25.0	23.7		ug/L		95	62 - 152	
Vinyl chloride	25.0	22.0		ug/L		88	65 - 133	

	LCS		
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140

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

Lab Sample ID: MB 480-297751/1 **Client Sample ID: Method Blank Prep Type: Total/NA** 

**Matrix: Water** 

Analysis Batch: 297751

мв мв

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	1.0	1.0 mg/L			04/22/16 16:43	1

Lab Sample ID: LCS 480-297751/2

**Matrix: Water** 

Analysis Batch: 297751

l	•	Spike	LCS	LCS				%Rec.	
l	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Total Suspended Solids	244	244.4		mg/L		100	88 - 110	

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-297554/1 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** 

Analysis Batch: 297554

								MB	М	В
									_	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			04/22/16 03:02	1

Lab Sample ID: LCS 480-297554/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 297554** 

	Spike	LCS LCS	}			%Rec.	
Analyte	Added	Result Qua	lifier Unit	D	%Rec	Limits	
Total Dissolved Solids	515	486.0	mg/L		94	85 - 115	

TestAmerica Buffalo

4/28/2016

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-98516-1

## **GC/MS VOA**

#### Analysis Batch: 298186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98516-2	EFFLUENT 041816	Total/NA	Water	8260C	
480-98516-3	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-298186/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-298186/7	Method Blank	Total/NA	Water	8260C	

# **General Chemistry**

#### **Analysis Batch: 297554**

La	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
48	30-98516-1	EFFLUENT 041816	Total/NA	Water	SM2540 C	
LC	CS 480-297554/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MI	B 480-297554/1	Method Blank	Total/NA	Water	SM2540 C	

## **Analysis Batch: 297751**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98516-1	EFFLUENT 041816	Total/NA	Water	SM 2540D	
LCS 480-297751/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-297751/1	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: 480-98516-1

Lab Sample ID: 480-98516-1

Matrix: Water

**Matrix: Water** 

**Matrix: Water** 

Client Sample ID: EFFLUENT 041816 Date Collected: 04/18/16 07:30

Date Received: 04/19/16 00:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			297751	04/22/16 16:43	MGH	TAL BUF
Total/NA	Analysis	SM2540 C		1	297554	04/22/16 03:02	CDC	TAL BUF

Client Sample ID: EFFLUENT 041816 Lab Sample ID: 480-98516-2

Date Collected: 04/18/16 07:30

Date Received: 04/19/16 00:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	298186	04/26/16 11:11	RRS	TAL BUF

Client Sample ID: TRIP BLANK Lab Sample ID: 480-98516-3

Date Collected: 04/18/16 00:00

Date Received: 04/19/16 00:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	298186	04/26/16 11:38	RRS	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: 480-98516-1

# **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

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

TestAmerica Job ID: 480-98516-1

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: 480-98516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-98516-1	EFFLUENT 041816	Water	04/18/16 07:30	04/19/16 00:45
480-98516-2	EFFLUENT 041816	Water	04/18/16 07:30	04/19/16 00:45
480-98516-3	TRIP BLANK	Water	04/18/16 00:00	04/19/16 00:45

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**TestAmerica** 

THE EDUCATE IN PROJECTION ENTRY TESTING

# Chain of Custody Record

Phone (716) 691-2600 Fax (716) 691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

**TestAmerica Buffalo** 

N - None
O - ANAO2
P - NA2O45
Q - NA2O45
Q - NA2SO3
R - NA2SO3
R - NA2SO3
R - NA2SO3
Y - YSP Dodecahydrate
U - Acetone
U - Acetone
W - ph 4.5
Z - other (specify) Special Instructions/Note: ompany A Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon COC No: 480-78347-10587.1 Preservation Codes G - Amchlor H - Ascorbic Acid Page: Page 1 of 1 Job#: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH I - Ice J - DI Water K - EDTA L - EDA 2400 Potal Number of containers M 480-98216 Chain Wethod of Shipment Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Analysis Red Lab PM: Johnson, Orlette S E-Mait: orlette.johnson@testamericainc.com m Time: Company Company (W=water, S=solid, O=waste/oil, Matrix シをなって Water Company Koervecke Type (C=comp, G=grab) Radiological Sample \$ Q 315-729-1300 67.01 19 ins Sample Time 17:30 1:30 Date; Unknown ample my RE I 10 FAT Requested (days): Due Date Requested: 12-18-16 PO#: 11312000EST Sample Date 91-81-4 91-81-H Date/Time: Project #: 48008584 SSOW#: WO#. Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No.: 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) O'Brien & Gere Inc of North America Non-Hazard Flammable Possible Hazard Identification 018160 041816 Empty Kit Relinquished by: Former Accurate Die Cast Custody Seals Intact: Client Information ample Identification Yuri.Veliz@obg.com ∆ Yes ∆ No City: East Syracuse Client Contact
Mr. Yuri Veliz elinquished by: dinquished by Lastra I State, Zip: NY, 13221 filment

Client: O'Brien & Gere Inc of North America

Job Number: 480-98516-1

Login Number: 98516 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

**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: 480-99052-1

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: 5/9/2016 8:54:39 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

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Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

9

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# **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-99052-1

### Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

TestAmerica Buffalo

Page 3 of 14

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### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99052-1

Job ID: 480-99052-1

**Laboratory: TestAmerica Buffalo** 

Narrative

Job Narrative 480-99052-1

#### Receipt

The sample was received on 4/27/2016 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° 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: 480-99052-1

Client Sample ID: EFFLUENT 042616 Lab Sample ID: 480-99052-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	634	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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

TestAmerica Job ID: 480-99052-1

Client Sample ID: EFFLUENT 042616

Lab Sample ID: 480-99052-1 Date Collected: 04/26/16 07:10 **Matrix: Water** 

Date Received: 04/27/16 01:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	634		10.0	4.0	mg/L			05/02/16 17:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			05/01/16 11:29	1

RL

1.0

**RL** Unit

1.0 mg/L

LCS LCS

226.0

Result Qualifier

D

Unit

mg/L

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

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

MB MB

ND

Result Qualifier

TestAmerica Job ID: 480-99052-1

Client Sample ID: Method Blank

Analyzed Dil Fac Prepared

05/01/16 11:29

Prep Type: Total/NA

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

%Rec

99

%Rec.

Client Sample ID: EFFLUENT 042616

Prep Type: Total/NA

Limits

88 - 110

Analysis Batch: 299236 Sample Sample

Lab Sample ID: MB 480-299236/1

Lab Sample ID: LCS 480-299236/2

Lab Sample ID: 480-99052-1 DU

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

Total Suspended Solids

**Total Suspended Solids** 

Analyte

Analyte

Analysis Batch: 299236

**Analysis Batch: 299236** 

DU DU **RPD** Result Qualifier RPD Result Qualifier Limit Analyte Unit D **Total Suspended Solids**  $\overline{\mathsf{ND}}$ ND mg/L

### Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-299487/1 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Spike

Added

227

**Analysis Batch: 299487** 

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 05/02/16 17:23

Lab Sample ID: LCS 480-299487/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 299487** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Total Dissolved Solids 539 534.0 mg/L 99 85 - 115

Lab Sample ID: 480-99052-1 DU Client Sample ID: EFFLUENT 042616 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 299487** 

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Limit Analyte Unit D **Total Dissolved Solids** 634 637.0 mg/L 0.5 10

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99052-1

### 3

### **General Chemistry**

Analysis Batch: 299236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-99052-1	EFFLUENT 042616	Total/NA	Water	SM 2540D	
480-99052-1 DU	EFFLUENT 042616	Total/NA	Water	SM 2540D	
LCS 480-299236/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-299236/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 299487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-99052-1	EFFLUENT 042616	Total/NA	Water	SM2540 C	
480-99052-1 DU	EFFLUENT 042616	Total/NA	Water	SM2540 C	
LCS 480-299487/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-299487/1	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

Client Sample ID: EFFLUENT 042616

TestAmerica Job ID: 480-99052-1

Lab Sample ID: 480-99052-1

**Matrix: Water** 

Date Collected: 04/26/16 07:10 Date Received: 04/27/16 01:30

Dran Tuna	Batch	Batch	Dun	Dilution	Batch	Prepared	Amalyzat	l ab
Prep Type Total/NA	Type Analysis	Method SM 2540D	Run	<b>Factor</b> 1		or Analyzed 05/01/16 11:29	Analyst EKB	TAL BUF
Total/NA	Analysis	SM2540 C		1	299487	05/02/16 17:23	MGH	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: 480-99052-1

### **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
1	New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99052-1

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

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# **Sample Summary**

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

TestAmerica Job ID: 480-99052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-99052-1	EFFLUENT 042616	Water	04/26/16 07:10	04/27/16 01:30

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-99052-1

Login Number: 99052 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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	

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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: 480-99694-1

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: 5/19/2016 8:06:34 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

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**Have a Question?** 



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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

3

4

6

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9

11

12

14

# **Definitions/Glossary**

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

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-99694-1

### **Qualifiers**

### **GC/MS VOA**

Qualifier Q	Qualifier Description
F1 M	MS and/or MSD Recovery is outside acceptance limits.
F2 M	MS/MSD RPD exceeds control limits
* L(	LCS or LCSD is outside acceptance limits.

### Glossary

TEF

**TEQ** 

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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

### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

Job ID: 480-99694-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-99694-1

#### Receipt

The samples were received on 5/6/2016 1:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

#### **GC/MS VOA**

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-302069 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Butanone (MEK), Acetone and Carbon tetrachloride. The samples associated with this CCV were non-detect above the reporting limit for the affected analytes; therefore, the data have been reported. The following samples are impacted: BETWEEN CARBONS 050516 (480-99694-2) and EFFLUENT 050516 (480-99694-3).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-302069 recovered outside control limits for the following analytes: Acetone and Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported. The following samples are affected: BETWEEN CARBONS 050516 (480-99694-2) and EFFLUENT 050516 (480-99694-3).

No additional analytical or quality issues were noted, other than those described above or 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: 480-99694-1

Client Sample ID: EFF	ient Sample ID: EFFLUENT 050516							<del>1</del> 80-99694-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	) Method	Prep Type
Total Dissolved Solids	624		10.0	4.0	mg/L	1	SM2540 C	Total/NA
Client Sample ID: BET	WEEN CARB	ONS 0505	16			Lab S	ample ID: 4	180-99694-2
No Detections.								
Client Sample ID: EFFI				Lab S	ample ID: 4	180-99694-3		
No Detections.								

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

Client Sample ID: EFFLUENT 050516

Date Collected: 05/05/16 07:30 Date Received: 05/06/16 01:40 Lab Sample ID: 480-99694-1

Matrix: Water

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	624		10.0	4.0	mg/L			05/11/16 16:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			05/10/16 10:35	1

Client Sample ID: BETWEEN CARBONS 050516 Lab Sample ID: 480-99694-2

Date Collected: 05/05/16 07:30 Matrix: Water

Date Received: 05/06/16 01:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1 F2	1.0	0.82	ug/L			05/17/16 00:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/17/16 00:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/17/16 00:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	1.0	0.31	ug/L			05/17/16 00:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/17/16 00:26	1
1,1-Dichloroethene	ND	F1 F2	1.0	0.29	ug/L			05/17/16 00:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/17/16 00:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/17/16 00:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/17/16 00:26	1
1,2-Dichloroethane	ND	F1	1.0	0.21	ug/L			05/17/16 00:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/17/16 00:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/17/16 00:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/17/16 00:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/17/16 00:26	1
2-Hexanone	ND		5.0	1.2	ug/L			05/17/16 00:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/17/16 00:26	1
Acetone	ND	*	10	3.0	ug/L			05/17/16 00:26	1
Benzene	ND	F2	1.0	0.41	ug/L			05/17/16 00:26	1
Bromodichloromethane	ND	F1 F2	1.0	0.39	ug/L			05/17/16 00:26	1
Bromoform	ND		1.0	0.26	ug/L			05/17/16 00:26	1
Bromomethane	ND	F1 F2	1.0	0.69	ug/L			05/17/16 00:26	1
Carbon disulfide	ND	F2	1.0	0.19	ug/L			05/17/16 00:26	1
Carbon tetrachloride	ND	F1 F2	1.0	0.27	ug/L			05/17/16 00:26	1
Chlorobenzene	ND		1.0	0.75	-			05/17/16 00:26	1
Dibromochloromethane	ND	F2	1.0	0.32				05/17/16 00:26	1
Chloroethane	ND		1.0	0.32				05/17/16 00:26	1
Chloroform	ND		1.0	0.34				05/17/16 00:26	1
Chloromethane	ND		1.0	0.35	ug/L			05/17/16 00:26	1
cis-1,2-Dichloroethene	ND	F2	1.0	0.81	_			05/17/16 00:26	1
cis-1,3-Dichloropropene	ND	F2	1.0	0.36	ug/L			05/17/16 00:26	1
Cyclohexane	ND	F2	1.0	0.18				05/17/16 00:26	1
Dichlorodifluoromethane	ND	* F1	1.0	0.68	•			05/17/16 00:26	1
Ethylbenzene	ND	F2	1.0	0.74	•			05/17/16 00:26	1
1,2-Dibromoethane	ND	F2	1.0	0.73				05/17/16 00:26	1
Isopropylbenzene		F2	1.0	0.79	-			05/17/16 00:26	1
Methyl acetate	ND		2.5		ug/L			05/17/16 00:26	1
Methyl tert-butyl ether	ND		1.0	0.16				05/17/16 00:26	1
Methylcyclohexane		F2	1.0	0.16	•			05/17/16 00:26	1
Methylene Chloride		F2	1.0	0.44	•			05/17/16 00:26	1

TestAmerica Buffalo

Page 6 of 22

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Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

**Client Sample ID: BETWEEN CARBONS 050516** 

Date Collected: 05/05/16 07:30 Date Received: 05/06/16 01:40 Lab Sample ID: 480-99694-2

Matrix: Water

Method: 8260C - Volatile O	•	•	•	•		_			
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	F2	1.0	0.73	ug/L			05/17/16 00:26	1
Tetrachloroethene	ND	F2	1.0	0.36	ug/L			05/17/16 00:26	1
Toluene	ND	F2	1.0	0.51	ug/L			05/17/16 00:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/17/16 00:26	1
trans-1,3-Dichloropropene	ND	F2	1.0	0.37	ug/L			05/17/16 00:26	1
Trichloroethene	ND	F2	1.0	0.46	ug/L			05/17/16 00:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/17/16 00:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/17/16 00:26	1
Xylenes, Total	ND	F2	2.0	0.66	ug/L			05/17/16 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		71 - 126			-		05/17/16 00:26	1
1,2-Dichloroethane-d4 (Surr)	116		66 - 137					05/17/16 00:26	1
4-Bromofluorobenzene (Surr)	97		73 - 120					05/17/16 00:26	1
Dibromofluoromethane (Surr)	113		60 - 140					05/17/16 00:26	1

**Client Sample ID: EFFLUENT 050516** 

Date Collected: 05/05/16 07:30

Lab Sample ID: 480-99694-3

Matrix: Water

46

Method: 8260C - Volatile Orgar Analyte	nic Compounds Result Quali	-	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.82	ug/L		<del>-</del>	05/17/16 00:53	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			05/17/16 00:53	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			05/17/16 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			05/17/16 00:53	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			05/17/16 00:53	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			05/17/16 00:53	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			05/17/16 00:53	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			05/17/16 00:53	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			05/17/16 00:53	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			05/17/16 00:53	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			05/17/16 00:53	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			05/17/16 00:53	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			05/17/16 00:53	1
2-Butanone (MEK)	ND	10	1.3	ug/L			05/17/16 00:53	1
2-Hexanone	ND	5.0	1.2	ug/L			05/17/16 00:53	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			05/17/16 00:53	1
Acetone	ND *	10	3.0	ug/L			05/17/16 00:53	1
Benzene	ND	1.0	0.41	ug/L			05/17/16 00:53	1
Bromodichloromethane	ND	1.0	0.39	ug/L			05/17/16 00:53	1
Bromoform	ND	1.0	0.26	ug/L			05/17/16 00:53	1
Bromomethane	ND	1.0	0.69	ug/L			05/17/16 00:53	1
Carbon disulfide	ND	1.0	0.19	ug/L			05/17/16 00:53	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			05/17/16 00:53	1
Chlorobenzene	ND	1.0	0.75	ug/L			05/17/16 00:53	1
Dibromochloromethane	ND	1.0	0.32	ug/L			05/17/16 00:53	1
Chloroethane	ND	1.0	0.32	ug/L			05/17/16 00:53	1
Chloroform	ND	1.0	0.34	-			05/17/16 00:53	1
Chloromethane	ND	1.0	0.35	-			05/17/16 00:53	1

TestAmerica Buffalo

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

Client Sample ID: EFFLUENT 050516

Date Collected: 05/05/16 07:30 Date Received: 05/06/16 01:40 Lab Sample ID: 480-99694-3

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/17/16 00:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/17/16 00:53	1
Cyclohexane	ND		1.0	0.18	ug/L			05/17/16 00:53	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			05/17/16 00:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/17/16 00:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/17/16 00:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/17/16 00:53	1
Methyl acetate	ND		2.5	1.3	ug/L			05/17/16 00:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/17/16 00:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/17/16 00:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/17/16 00:53	1
Styrene	ND		1.0	0.73	ug/L			05/17/16 00:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/17/16 00:53	1
Toluene	ND		1.0	0.51	ug/L			05/17/16 00:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/17/16 00:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/17/16 00:53	1
Trichloroethene	ND		1.0	0.46	ug/L			05/17/16 00:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/17/16 00:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/17/16 00:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/17/16 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 126			-		05/17/16 00:53	1
1,2-Dichloroethane-d4 (Surr)	113		66 - 137					05/17/16 00:53	1
4-Bromofluorobenzene (Surr)	98		73 - 120					05/17/16 00:53	1
Dibromofluoromethane (Surr)	112		60 - 140					05/17/16 00:53	1

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### **Surrogate Summary**

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

TestAmerica Job ID: 480-99694-1

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

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

			Percent Surrogate Recovery (Accepta				
		TOL	12DCE	BFB	DBFM		
Lab Sample ID	Client Sample ID	(71-126)	(66-137)	(73-120)	(60-140)		
480-99694-2	BETWEEN CARBONS 050516	95	116	97	113		
480-99694-2 MS	BETWEEN CARBONS 050516	98	116	104	114		
480-99694-2 MSD	BETWEEN CARBONS 050516	97	115	104	115		
480-99694-3	EFFLUENT 050516	97	113	98	112		
LCS 480-302069/4	Lab Control Sample	99	110	101	110		
MB 480-302069/7	Method Blank	97	115	101	111		

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Buffalo

Page 9 of 22

TestAmerica Job ID: 480-99694-1

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

Lab Sample ID: MB 480-302069/7

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

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

**Matrix: Water** 

Analysis Batch: 302069	МВ	МВ							
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	- Qualifier	1.0		ug/L		Fiepaieu	05/16/16 23:44	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			05/16/16 23:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			05/16/16 23:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			05/16/16 23:44	
1,1-Dichloroethane	ND		1.0		ug/L			05/16/16 23:44	1
1,1-Dichloroethene	ND		1.0		ug/L			05/16/16 23:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/16/16 23:44	
1,2-Dibromo-3-Chloropropane	ND ND		1.0		ug/L ug/L			05/16/16 23:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			05/16/16 23:44	1
1,2-Dichloroethane	ND		1.0		ug/L			05/16/16 23:44	
	ND ND		1.0		ug/L ug/L			05/16/16 23:44	
1,2-Dichloropropane 1,3-Dichlorobenzene	ND ND		1.0		ug/L ug/L			05/16/16 23:44	1
					-				
1,4-Dichlorobenzene	ND		1.0		ug/L			05/16/16 23:44	1
2-Butanone (MEK)	ND		10		ug/L			05/16/16 23:44	1
2-Hexanone	ND		5.0		ug/L			05/16/16 23:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			05/16/16 23:44	1
Acetone	ND		10		ug/L			05/16/16 23:44	1
Benzene	ND		1.0		ug/L			05/16/16 23:44	
Bromodichloromethane	ND		1.0		ug/L			05/16/16 23:44	1
Bromoform	ND		1.0		ug/L			05/16/16 23:44	1
Bromomethane	ND		1.0	0.69	-			05/16/16 23:44	1
Carbon disulfide	ND		1.0		ug/L			05/16/16 23:44	1
Carbon tetrachloride	ND		1.0		ug/L			05/16/16 23:44	1
Chlorobenzene	ND		1.0		ug/L			05/16/16 23:44	1
Dibromochloromethane	ND		1.0		ug/L			05/16/16 23:44	1
Chloroethane	ND		1.0		ug/L			05/16/16 23:44	1
Chloroform	ND		1.0		ug/L			05/16/16 23:44	1
Chloromethane	ND		1.0		ug/L			05/16/16 23:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			05/16/16 23:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/16/16 23:44	1
Cyclohexane	ND		1.0	0.18	ug/L			05/16/16 23:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/16/16 23:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/16/16 23:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/16/16 23:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/16/16 23:44	1
Methyl acetate	ND		2.5	1.3	ug/L			05/16/16 23:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/16/16 23:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/16/16 23:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/16/16 23:44	1
Styrene	ND		1.0	0.73	ug/L			05/16/16 23:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/16/16 23:44	1
Toluene	ND		1.0	0.51	ug/L			05/16/16 23:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			05/16/16 23:44	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			05/16/16 23:44	1
Trichloroethene	ND		1.0		ug/L			05/16/16 23:44	1
Trichlorofluoromethane	ND		1.0		ug/L			05/16/16 23:44	1
Vinyl chloride	ND		1.0		ug/L			05/16/16 23:44	1
Xylenes, Total	ND		2.0		ug/L			05/16/16 23:44	1

TestAmerica Buffalo

5/19/2016

Page 10 of 22

# **QC Sample Results**

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

TestAmerica Job ID: 480-99694-1

	MB MB	}			
Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97	71 - 126		05/16/16 23:44	1
1,2-Dichloroethane-d4 (Surr)	115	66 - 137		05/16/16 23:44	1
4-Bromofluorobenzene (Surr)	101	73 - 120		05/16/16 23:44	1
Dibromofluoromethane (Surr)	111	60 - 140		05/16/16 23:44	1

Lab Sample ID: LCS 480-302069/4

**Matrix: Water** 

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

_		8

Analysis Batch: 302069	Spike	1.09	LCS				%Rec.	
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	29.2		ug/L		117	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 126	
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	31.3		ug/L		125	52 - 148	
ne				J				
1,1-Dichloroethane	25.0	24.8		ug/L		99	71 - 129	
1,1-Dichloroethene	25.0	26.9		ug/L		107	58 - 121	
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 122	
1,2-Dibromo-3-Chloropropane	25.0	29.0		ug/L		116	56 - 134	
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124	
1,2-Dichloroethane	25.0	27.1		ug/L		108	75 - 127	
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120	
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	77 - 120	
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	75 - 120	
2-Butanone (MEK)	125	154		ug/L		124	57 - 140	
2-Hexanone	125	137		ug/L		109	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	71 - 125	
Acetone	125	212	*	ug/L		170	56 - 142	
Benzene	25.0	24.4		ug/L		98	71 - 124	
Bromodichloromethane	25.0	27.6		ug/L		111	80 - 122	
Bromoform	25.0	28.3		ug/L		113	52 - 132	
Bromomethane	25.0	29.6		ug/L		118	55 - 144	
Carbon disulfide	25.0	26.2		ug/L		105	59 - 134	
Carbon tetrachloride	25.0	30.1		ug/L		121	72 - 134	
Chlorobenzene	25.0	23.8		ug/L		95	72 - 120	
Dibromochloromethane	25.0	26.9		ug/L		107	75 <sub>-</sub> 125	
Chloroethane	25.0	26.7		ug/L		107	69 - 136	
Chloroform	25.0	26.8		ug/L		107	73 - 127	
Chloromethane	25.0	25.5		ug/L		102	68 - 124	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	74 - 124	
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124	
Cyclohexane	25.0	26.1		ug/L		104	59 - 135	
Dichlorodifluoromethane	25.0	36.9	*	ug/L		148	59 - 135	
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123	
1,2-Dibromoethane	25.0	25.4		ug/L		102	77 - 120	
Isopropylbenzene	25.0	25.1		ug/L		100	77 <sub>-</sub> 122	
Methyl acetate	125	139		ug/L		111	74 - 133	
Methyl tert-butyl ether	25.0	26.2		ug/L		105	64 - 127	
Methylcyclohexane	25.0	25.9		ug/L		104	61 - 138	
Methylene Chloride	25.0	24.6		ug/L		99	57 - 132	
Styrene	25.0	24.0		ug/L		96	70 - 130	
Tetrachloroethene	25.0	25.5		ug/L ug/L		102	74 - 122	
Toluene	25.0 25.0	23.9		ug/L ug/L		96	80 - 122	
trans-1,2-Dichloroethene	25.0 25.0	25.2		ug/L ug/L		101	73 - 127	

TestAmerica Buffalo

# **QC Sample Results**

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

TestAmerica Job ID: 480-99694-1

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

Lab Sample ID: LCS 480-302069/4

Lab Sample ID: 480-99694-2 MS

**Matrix: Water** 

Chloromethane

Cyclohexane

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

**Analysis Batch: 302069** 

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	72 - 123	
Trichloroethene	25.0	26.1		ug/L		104	74 - 123	
Trichlorofluoromethane	25.0	29.4		ug/L		117	62 - 152	
Vinyl chloride	25.0	25.3		ug/L		101	65 - 133	

LCS LCS Surrogate %Recovery Qualifier Limits Toluene-d8 (Surr) 99 71 - 126 1,2-Dichloroethane-d4 (Surr) 110 66 - 137 4-Bromofluorobenzene (Surr) 101 73 - 120 Dibromofluoromethane (Surr) 110 60 - 140

ND

ND F2

ND F2

ND F2

**Client Sample ID: BETWEEN CARBONS 050516** 

103

114

102

120

68 - 124

74 - 124

74 - 124

59 - 135

Matrix: Water							•		Prep Type: Total/N
Analysis Batch: 302069									
	-	Sample	Spike	MS	MS				%Rec.
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND	F1 F2	25.0	36.7	F1	ug/L		147	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	27.6		ug/L		110	70 - 126
1,1,2-Trichloroethane	ND		25.0	26.9		ug/L		108	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroetha	ND	F1 F2	25.0	37.4	F1	ug/L		149	52 - 148
ne									
1,1-Dichloroethane	ND		25.0	28.6		ug/L		114	71 - 129
1,1-Dichloroethene		F1 F2	25.0	31.8		ug/L		127	58 - 121
1,2,4-Trichlorobenzene	ND		25.0	27.2		ug/L		109	70 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	30.9		ug/L		124	56 - 134
1,2-Dichlorobenzene	ND		25.0	27.2		ug/L		109	80 - 124
1,2-Dichloroethane	ND	F1	25.0	31.9	F1	ug/L		128	75 - 127
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.6		ug/L		106	75 - 120
2-Butanone (MEK)	ND		125	158		ug/L		126	57 <sub>-</sub> 140
2-Hexanone	ND		125	145		ug/L		116	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	145		ug/L		116	71 - 125
Acetone	ND	*	125	176		ug/L		141	56 - 142
Benzene	ND	F2	25.0	27.5		ug/L		110	71 - 124
Bromodichloromethane	ND	F1 F2	25.0	31.6	F1	ug/L		127	80 - 122
Bromoform	ND		25.0	30.2		ug/L		121	52 - 132
Bromomethane	ND	F1 F2	25.0	39.6	F1	ug/L		159	55 - 144
Carbon disulfide	ND	F2	25.0	30.1		ug/L		120	59 - 134
Carbon tetrachloride	ND	F1 F2	25.0	38.7	F1	ug/L		155	72 - 134
Chlorobenzene	ND		25.0	27.0		ug/L		108	72 - 120
Dibromochloromethane	ND	F2	25.0	31.0		ug/L		124	75 - 125
Chloroethane	ND		25.0	29.1		ug/L		116	69 <sub>-</sub> 136
Chloroform	ND		25.0	31.5		ug/L		126	73 - 127
						<del>.</del>			

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Page 12 of 22

25.8

28.5

25.4

30.0

ug/L

ug/L

ug/L

ug/L

25.0

25.0

25.0

25.0

TestAmerica Job ID: 480-99694-1

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

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

Lab Sample ID: 480-99694-2 MS

**Matrix: Water Analysis Batch: 302069**  **Client Sample ID: BETWEEN CARBONS 050516** 

Client Sample ID: BETWEEN CARBONS 050516

D %Rec

115

109

107

137

91

105

65 - 127

71 - 125

56 - 142

71 - 124

80 - 122

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Dichlorodifluoromethane	ND	* F1	25.0	41.1	F1	ug/L		164	59 - 135	
Ethylbenzene	ND	F2	25.0	28.2		ug/L		113	77 - 123	
1,2-Dibromoethane	ND	F2	25.0	29.0		ug/L		116	77 - 120	
Isopropylbenzene	ND	F2	25.0	27.8		ug/L		111	77 - 122	
Methyl acetate	ND		125	148		ug/L		119	74 - 133	
Methyl tert-butyl ether	ND		25.0	28.8		ug/L		115	64 - 127	
Methylcyclohexane	ND	F2	25.0	29.3		ug/L		117	61 - 138	
Methylene Chloride	ND	F2	25.0	27.1		ug/L		108	57 <sub>-</sub> 132	
Styrene	ND	F2	25.0	26.8		ug/L		107	70 - 130	
Tetrachloroethene	ND	F2	25.0	29.8		ug/L		119	74 - 122	
Toluene	ND	F2	25.0	26.8		ug/L		107	80 - 122	
trans-1,2-Dichloroethene	ND		25.0	29.5		ug/L		118	73 - 127	
trans-1,3-Dichloropropene	ND	F2	25.0	26.7		ug/L		107	72 - 123	
Trichloroethene	ND	F2	25.0	30.2		ug/L		121	74 - 123	
Trichlorofluoromethane	ND		25.0	35.0		ug/L		140	62 - 152	
Vinyl chloride	ND		25.0	26.2		ug/L		105	65 - 133	
	МС	MS								

MS MS

Sample Sample

ND

ND

ND

ND F2

ND F1 F2

Result Qualifier

ND F1 F2

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	98		71 - 126
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	114		60 - 140

Lab Sample ID: 480-99694-2 MSD

**Matrix: Water** 

1,1,1-Trichloroethane

Analyte

2-Hexanone

Acetone

Benzene

4-Methyl-2-pentanone (MIBK)

Bromodichloromethane

**Analysis Batch: 302069** 

1,1,2,2-Tetrachloroethane	ND	25.0	25.5	ug/L	102	70 - 126	8	15
1,1,2-Trichloroethane	ND	25.0	23.4	ug/L	93	76 - 122	14	15
1,1,2-Trichloro-1,2,2-trifluoroetha	ND F1F2	25.0	28.8 F2	ug/L	115	52 - 148	26	20
ne								
1,1-Dichloroethane	ND	25.0	23.5	ug/L	94	71 - 129	20	20
1,1-Dichloroethene	ND F1 F2	25.0	25.9 F2	ug/L	103	58 - 121	21	16
1,2,4-Trichlorobenzene	ND	25.0	22.4	ug/L	90	70 - 122	19	20
1,2-Dibromo-3-Chloropropane	ND	25.0	29.6	ug/L	118	56 <sub>-</sub> 134	4	15
1,2-Dichlorobenzene	ND	25.0	22.9	ug/L	91	80 - 124	17	20
1,2-Dichloroethane	ND F1	25.0	26.9	ug/L	108	75 - 127	17	20
1,2-Dichloropropane	ND	25.0	22.2	ug/L	89	76 - 120	16	20
1,3-Dichlorobenzene	ND	25.0	21.8	ug/L	87	77 - 120	20	20
1,4-Dichlorobenzene	ND	25.0	21.8	ug/L	87	75 - 120	20	20
2-Butanone (MEK)	ND	125	152	ug/L	121	57 <sub>-</sub> 140	4	20

125

125

125

25.0

25.0

MSD MSD

28.6 F2

137

133

171

22.8 F2

26.3 F2

Result Qualifier

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

Spike

25.0

Added

Prep Type: Total/NA

RPD

25

**RPD** 

Limit

15

35

15

13

15

%Rec.

Limits

73 - 126

Page 13 of 22

3

19

TestAmerica Job ID: 480-99694-1

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

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

Lab Sample ID: 480-99694-2 MSD

**Matrix: Water** 

**Analysis Batch: 302069** 

**Client Sample ID: BETWEEN CARBONS 050516** 

**Prep Type: Total/NA** 

Analysis Baton: 002000	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bromoform	ND		25.0	26.7		ug/L		107	52 - 132	12	15
Bromomethane	ND	F1 F2	25.0	31.5	F2	ug/L		126	55 - 144	23	15
Carbon disulfide	ND	F2	25.0	24.6	F2	ug/L		98	59 - 134	20	15
Carbon tetrachloride	ND	F1 F2	25.0	30.1	F2	ug/L		120	72 - 134	25	15
Chlorobenzene	ND		25.0	22.0		ug/L		88	72 - 120	20	25
Dibromochloromethane	ND	F2	25.0	25.9	F2	ug/L		104	75 - 125	18	15
Chloroethane	ND		25.0	26.1		ug/L		104	69 - 136	11	15
Chloroform	ND		25.0	25.8		ug/L		103	73 - 127	20	20
Chloromethane	ND		25.0	24.6		ug/L		98	68 - 124	5	15
cis-1,2-Dichloroethene	ND	F2	25.0	23.9	F2	ug/L		96	74 - 124	18	15
cis-1,3-Dichloropropene	ND	F2	25.0	21.6	F2	ug/L		86	74 - 124	16	15
Cyclohexane	ND	F2	25.0	23.7	F2	ug/L		95	59 - 135	23	20
Dichlorodifluoromethane	ND	* F1	25.0	37.7	F1	ug/L		151	59 - 135	9	20
Ethylbenzene	ND	F2	25.0	22.5	F2	ug/L		90	77 - 123	23	15
1,2-Dibromoethane	ND	F2	25.0	24.7	F2	ug/L		99	77 - 120	16	15
Isopropylbenzene	ND	F2	25.0	22.2	F2	ug/L		89	77 - 122	23	20
Methyl acetate	ND		125	137		ug/L		110	74 - 133	8	20
Methyl tert-butyl ether	ND		25.0	25.8		ug/L		103	64 - 127	11	37
Methylcyclohexane	ND	F2	25.0	23.0	F2	ug/L		92	61 - 138	24	20
Methylene Chloride	ND	F2	25.0	23.0	F2	ug/L		92	57 - 132	16	15
Styrene	ND	F2	25.0	21.7	F2	ug/L		87	70 - 130	21	20
Tetrachloroethene	ND	F2	25.0	23.6	F2	ug/L		94	74 - 122	23	20
Toluene	ND	F2	25.0	21.4	F2	ug/L		86	80 - 122	22	15
trans-1,2-Dichloroethene	ND		25.0	24.3		ug/L		97	73 - 127	20	20
trans-1,3-Dichloropropene	ND	F2	25.0	22.5	F2	ug/L		90	72 - 123	17	15
Trichloroethene	ND	F2	25.0	24.5	F2	ug/L		98	74 - 123	21	16
Trichlorofluoromethane	ND		25.0	31.5		ug/L		126	62 - 152	11	20
Vinyl chloride	ND		25.0	24.8		ug/L		99	65 - 133	5	15

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	97		71 - 126
1,2-Dichloroethane-d4 (Surr)	115		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	115		60 - 140

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

Lab Sample ID: MB 480-300917/1

**Matrix: Water** 

**Analysis Batch: 300917** 

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

MB MB Result Qualifier RL **RL** Unit Prepared Analyzed 1.0 mg/L **Total Suspended Solids** ND 1.0 05/10/16 10:35

TestAmerica Buffalo

### **QC Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

9

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

Lab Sample ID: LCS 480-300917/2

Matrix: Water

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

**Analysis Batch: 300917** 

 Analyte
 Added Total Suspended Solids
 Result 245.6
 Qualifier mg/L
 Unit mg/L
 D 98
 88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-301249/1

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 301249

MB MB

Lab Sample ID: LCS 480-301249/2

Matrix: Water

Prep Type: Total/NA

**Analysis Batch: 301249** 

 Analyte
 Added Total Dissolved Solids
 Result 510
 Unit 551.0
 Description
 WRec.
 Limits

 Total Dissolved Solids
 510
 551.0
 551.0
 mg/L
 108
 85 - 115

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

### **GC/MS VOA**

### Analysis Batch: 302069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-99694-2	BETWEEN CARBONS 050516	Total/NA	Water	8260C	
480-99694-2 MS	BETWEEN CARBONS 050516	Total/NA	Water	8260C	
480-99694-2 MSD	BETWEEN CARBONS 050516	Total/NA	Water	8260C	
480-99694-3	EFFLUENT 050516	Total/NA	Water	8260C	
LCS 480-302069/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-302069/7	Method Blank	Total/NA	Water	8260C	

# **General Chemistry**

### Analysis Batch: 300917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-99694-1	EFFLUENT 050516	Total/NA	Water	SM 2540D	
LCS 480-300917/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-300917/1	Method Blank	Total/NA	Water	SM 2540D	

### **Analysis Batch: 301249**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-99694-1	EFFLUENT 050516	Total/NA	Water	SM2540 C	
LCS 480-301249/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-301249/1	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: 480-99694-1

Lab Sample ID: 480-99694-1

Client Sample ID: EFFLUENT 050516

Date Collected: 05/05/16 07:30

Matrix: Water

Date Received: 05/06/16 01:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			300917	05/10/16 10:35	MGH	TAL BUF
Total/NA	Analysis	SM2540 C		1	301249	05/11/16 16:12	ELR	TAL BUF

Lab Sample ID: 480-99694-2

**Matrix: Water** 

**Matrix: Water** 

Client Sample ID: BETWEEN CARBONS 050516 Date Collected: 05/05/16 07:30

Date Received: 05/06/16 01:40

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	302069	05/17/16 00:26	CDC	TAL BUF

Client Sample ID: EFFLUENT 050516 Lab Sample ID: 480-99694-3

Date Collected: 05/05/16 07:30

Date Received: 05/06/16 01:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			302069	05/17/16 00:53	CDC	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: 480-99694-1

### **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA</b> Region	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-99694-1

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

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# **Sample Summary**

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

TestAmerica Job ID: 480-99694-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
480-99694-1	EFFLUENT 050516	Water	05/05/16 07:30 05/06/16 01:4
480-99694-2	BETWEEN CARBONS 050516	Water	05/05/16 07:30 05/06/16 01:4
480-99694-3	EFFLUENT 050516	Water	05/05/16 07:30 05/06/16 01:4

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*A A* 

N None
O-Ashado
P-Na204S
Q-Na204S
Q-Na28C03
R-Na28C03
S-H2SC4
T-TSP Dodecatydrate
U-Acetone
W-MCAA
W-on 4-6
Z-other (specify) **TestAmerica** the exader in Erubbornental Testing Special Instructions/Note: Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon COC No: 480-78320-10588.1 reservation Codes G - Amchlor H - Ascorbic Acid Page 1 of 1 i - toe J - Di Water K - EDTA L - EDA E-NaHSO4 F - MeOH Archive For Total Number of containers Analysis Request Special Instructions/QC Requirements Lab PW: Johnson, Oriette S E-Mail: Ioriette johnson@testamericainc.com 3 3 Chain of Custody Record 124F121 Preservation Code: Matrix Water Water Kopwiecku Type (C≕comp, Radiological G=grab) Sample hone: 315-729-1306 0 (D) 1:30 7:30 7.30 Sample Sample MARTIN Unknown TAT Requested (days): Due Date Requested: Sample Date PO#: 11312000EST 5-5-16 5-5-16 5-5-16 Project #: 48008584 SSOW#: ₩O₩ Poison B Skin Irritant eliverable Requested: I, II, III, IV, Other (specify) Phone (716) 691-2600 Fax (716) 691-7991 Address: 333 West Washington St. PO BOX 4873 315-463-7554(Fax) Company: O'Brien & Gere Inc of North America 050516 Flammable Between Carbons 050516 Possible Hazard Identification 050516 Former Accurate Die Cast Client Information Sample Identification

TestAmerica Buffalo

Amherst, NY 14228-2298 10 Hazelwood Drive

Mr. Yuri Veliz

Effluent 

Phone: |315-956-6100(Tel) ? /uri.Veliz@obg.com

East Syracuse

State, Zip: NY, 13221

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5/19/2016

linquished by: elinquished by:

Empty Kit Relinquished by:

Non-Hazard

Custody Seal No.

Custody Seals Intact:

Δ Yes Δ No

Company

0/1/0

Cooler Temperature(s) °C and Other Remarks:

14

Method of Shipment

Time:

Company  $\mathcal{O}$ 

9:05

5-5-16 Date/Time:

Company

5 - 5 - 1/L Date/Time:

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-99694-1

Login Number: 99694 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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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: 480-100209-1

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: 5/27/2016 11:03:14 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

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**Have a Question?** 



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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

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# **Definitions/Glossary**

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

TestAmerica Job ID: 480-100209-1

# Glossary

RPD

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100209-1

Job ID: 480-100209-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-100209-1

### Receipt

The samples were received on 5/17/2016 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° 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

Client Sample ID: EFFLUENT 051616

TestAmerica Job ID: 480-100209-1

Lab Sample ID: 480-100209-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	620	10.0	4.0 mg/L	1 SM2540 C	Total/NA

Client Sample ID: EFFLUENT 051616 Lab Sample ID: 480-100209-2

No Detections.

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# **Client Sample Results**

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

TestAmerica Job ID: 480-100209-1

Client Sample ID: EFFLUENT 051616

Lab Sample ID: 480-100209-1 Date Collected: 05/16/16 07:15 **Matrix: Water** 

Date Received: 05/17/16 02:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	620		10.0	4.0	mg/L			05/21/16 10:01	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			05/20/16 18:11	1

Client Sample ID: EFFLUENT 051616 Lab Sample ID: 480-100209-2

Date Collected: 05/16/16 07:15 **Matrix: Water** 

Date Received: 05/17/16 02:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/21/16 16:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/21/16 16:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/21/16 16:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/21/16 16:53	1
Toluene	ND		1.0	0.51	ug/L			05/21/16 16:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/21/16 16:53	1
Trichloroethene	ND		1.0	0.46	ug/L			05/21/16 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					05/21/16 16:53	1
4.5 % (0.1)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		05/21/16 16:53	1
4-Bromofluorobenzene (Surr)	107		73 - 120		05/21/16 16:53	1
Toluene-d8 (Surr)	99		71 - 126		05/21/16 16:53	1
Dibromofluoromethane (Surr)	98		60 - 140		05/21/16 16:53	1

# **Surrogate Summary**

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

TestAmerica Job ID: 480-100209-1

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

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

			Percent Surrogate Recov				
		12DCE	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)	(60-140)		
480-100209-2	EFFLUENT 051616	101	107	99	98		
LCS 480-302974/5	Lab Control Sample	101	110	98	102		
MB 480-302974/7	Method Blank	104	106	97	98		
Surrogate Legend							

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Buffalo

5/27/2016

TestAmerica Job ID: 480-100209-1

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

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

Lab Sample ID: MB 480-302974/7

**Matrix: Water** 

Analysis Batch: 302974

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

ME	B MB							
Analyte Resul	t Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane NI	<u> </u>	1.0	0.21	ug/L			05/21/16 12:27	1
cis-1,2-Dichloroethene NI	)	1.0	0.81	ug/L			05/21/16 12:27	1
Methylene Chloride NI	)	1.0	0.44	ug/L			05/21/16 12:27	1
Tetrachloroethene NI	)	1.0	0.36	ug/L			05/21/16 12:27	1
Toluene NI	)	1.0	0.51	ug/L			05/21/16 12:27	1
trans-1,2-Dichloroethene NI	)	1.0	0.90	ug/L			05/21/16 12:27	1
Trichloroethene NI	)	1.0	0.46	ug/L			05/21/16 12:27	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 104 66 - 137 05/21/16 12:27 73 - 120 4-Bromofluorobenzene (Surr) 106 05/21/16 12:27 Toluene-d8 (Surr) 97 71 - 126 05/21/16 12:27 98 60 - 140 Dibromofluoromethane (Surr) 05/21/16 12:27

Lab Sample ID: LCS 480-302974/5

**Matrix: Water** 

**Analysis Batch: 302974** 

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

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	70 - 126	
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124	
Methylene Chloride	25.0	24.7		ug/L		99	57 <sub>-</sub> 132	
Tetrachloroethene	25.0	24.9		ug/L		100	74 - 122	
Toluene	25.0	23.7		ug/L		95	80 - 122	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127	
Trichloroethene	25.0	25.6		ug/L		103	74 - 123	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 66 - 137 4-Bromofluorobenzene (Surr) 110 73 - 120 Toluene-d8 (Surr) 98 71 - 126 Dibromofluoromethane (Surr) 102 60 - 140

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

Lab Sample ID: MB 480-302931/1

**Matrix: Water** 

**Analysis Batch: 302931** 

MB MB

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L	<del></del>		05/20/16 18:11	1

TestAmerica Buffalo

Client Sample ID: Method Blank

Prep Type: Total/NA

LCS LCS

DU DU

ND

RL

10.0

Result Qualifier

**MDL** Unit

LCS LCS

498.0

Result Qualifier

4.0 mg/L

254.0

Result Qualifier

Unit

mg/L

Unit

mg/L

Spike

Added

253

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

Lab Sample ID: LCS 480-302931/2

Lab Sample ID: 480-100209-1 DU

Lab Sample ID: MB 480-302985/1

Lab Sample ID: LCS 480-302985/2

Lab Sample ID: 480-100209-1 DU

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

Total Dissolved Solids

Total Dissolved Solids

**Matrix: Water** 

Total Dissolved Solids

Analyte

**Matrix: Water** 

Total Suspended Solids

**Total Suspended Solids** 

Analyte

Analyte

Analyte

Analysis Batch: 302931

**Analysis Batch: 302931** 

**Analysis Batch: 302985** 

**Analysis Batch: 302985** 

**Analysis Batch: 302985** 

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

Sample Sample

 $\overline{\mathsf{ND}}$ 

Method: SM2540 C - Total Dissolved Solids

Result Qualifier

MB MB

 $\overline{\mathsf{ND}}$ 

620

Result Qualifier

TestAmerica Job ID: 480-100209-1

%Rec.

Limits

Client Sample ID: EFFLUENT 051616

88 - 110

D %Rec

D

Prepared

%Rec

99

100

Prep Type: Total/NA

**Prep Type: Total/NA** 

**RPD** 

NC

**Client Sample ID: Lab Control Sample** 

**RPD** 

Limit

Dil Fac

**RPD** 

10

10

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

Prep Type: Total/NA

Analyzed

05/21/16 10:01

Client Sample ID: EFFLUENT 051616

%Rec.

Limits

85 - 115

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

DU DU Sample Sample Result Qualifier

Spike

Added

501

Result Qualifier 619.0

mg/L

Unit

mg/L

Unit D RPD Limit 0.2

TestAmerica Buffalo

# **QC Association Summary**

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

TestAmerica Job ID: 480-100209-1

# **GC/MS VOA**

### Analysis Batch: 302974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100209-2	EFFLUENT 051616	Total/NA	Water	8260C	
LCS 480-302974/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-302974/7	Method Blank	Total/NA	Water	8260C	

# **General Chemistry**

### **Analysis Batch: 302931**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100209-1	EFFLUENT 051616	Total/NA	Water	SM 2540D	
480-100209-1 DU	EFFLUENT 051616	Total/NA	Water	SM 2540D	
LCS 480-302931/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-302931/1	Method Blank	Total/NA	Water	SM 2540D	

### **Analysis Batch: 302985**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100209-1	EFFLUENT 051616	Total/NA	Water	SM2540 C	
480-100209-1 DU	EFFLUENT 051616	Total/NA	Water	SM2540 C	
LCS 480-302985/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-302985/1	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: 480-100209-1

Lab Sample ID: 480-100209-1

**Matrix: Water** 

**Client Sample ID: EFFLUENT 051616** Date Collected: 05/16/16 07:15

Batch Batch			Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	302931	05/20/16 18:11	MGH	TAL BUF
Total/NA	Analysis	SM2540 C		1	302985	05/21/16 10:01	MGH	TAL BUF

Lab Sample ID: 480-100209-2 Client Sample ID: EFFLUENT 051616

Date Collected: 05/16/16 07:15 **Matrix: Water** 

Date Received: 05/17/16 02:00

Date Received: 05/17/16 02:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	302974	05/21/16 16:53	NMD1	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: 480-100209-1

# **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA</b> Region	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100209-1

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

TestAmerica Buffalo

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# **Sample Summary**

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

TestAmerica Job ID: 480-100209-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100209-1	EFFLUENT 051616	Water	05/16/16 07:15	05/17/16 02:00
480-100209-2	EFFLUENT 051616	Water	05/16/16 07:15	05/17/16 02:00

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### **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-100209-1

Login Number: 100209 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question Answer Comment

Radioactivity either was not measured or, if measured, is at or below background

The cooler's custody seal, if present, is intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the sample IDs on the containers and the COC.

Samples are received within Holding Time (Excluding tests with immediate

HTs)..

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.

If necessary, staff have been informed of any short hold time or quick TAT needs

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Sampling Company provided.

Samples received within 48 hours of sampling.

Samples requiring field filtration have been filtered in the field.

Chlorine Residual checked.

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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: 480-100611-1

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: 6/3/2016 12:44:40 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

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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.

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

3

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R

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11

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# **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-100611-1

# Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100611-1

Job ID: 480-100611-1

**Laboratory: TestAmerica Buffalo** 

Narrative

Job Narrative 480-100611-1

### Receipt

The sample was received on 5/25/2016 12:45 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, 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: 480-100611-1

Client Sample ID: EFFLUENT 052416

Lab Sai	mple	ID: 48	30-10	<b>0611-</b> 1
---------	------	--------	-------	----------------

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	675	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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# **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100611-1

**Client Sample ID: EFFLUENT 052416** 

Lab Sample ID: 480-100611-1

Date Collected: 05/24/16 07:10 Matrix: Water

Date Received: 05/25/16 00:45

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	675		10.0	4.0	mg/L			05/31/16 12:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			05/31/16 07:57	1

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TestAmerica Job ID: 480-100611-1

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

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

Lab Sample ID: MB 480-304298/1

**Analysis Batch: 304298** 

**Matrix: Water** 

MB MB Analyte Result Qualifier RL **RL** Unit D Prepared Analyzed 1.0 05/31/16 07:57 Total Suspended Solids ND 1.0 mg/L

Lab Sample ID: LCS 480-304298/2

**Matrix: Water** 

**Analysis Batch: 304298** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit D %Rec **Total Suspended Solids** 243 243.6 mg/L 100 88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-304378/1

**Matrix: Water** 

**Analysis Batch: 304378** 

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids ND 10.0 4.0 mg/L 05/31/16 12:34

Lab Sample ID: LCS 480-304378/2

**Matrix: Water** 

**Analysis Batch: 304378** 

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Total Dissolved Solids 509 504.0 mg/L 99 85 - 115

TestAmerica Buffalo

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Prep Type: Total/NA** 

Prep Type: Total/NA

Dil Fac

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100611-1

# **General Chemistry**

### Analysis Batch: 304298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100611-1	EFFLUENT 052416	Total/NA	Water	SM 2540D	
LCS 480-304298/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-304298/1	Method Blank	Total/NA	Water	SM 2540D	

### **Analysis Batch: 304378**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100611-1	EFFLUENT 052416	Total/NA	Water	SM2540 C	
LCS 480-304378/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-304378/1	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

Client Sample ID: EFFLUENT 052416

TestAmerica Job ID: 480-100611-1

Lab Sample ID: 480-100611-1

Matrix: Water

Date Collected: 05/24/16 07:10 Date Received: 05/25/16 00:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	304298	05/31/16 07:57	EKB	TAL BUF
Total/NA	Analysis	SM2540 C		1	304378	05/31/16 12:34	ELR	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: 480-100611-1

# **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA</b> Region	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100611-1

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

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# **Sample Summary**

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

TestAmerica Job ID: 480-100611-1

Lab Cample ID	Olient Comple ID	Matric	O a ll a a t a d	Descional
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100611-1	EFFLUENT 052416	Water	05/24/16 07:10	05/25/16 00:45

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# Chain of Custody Record

TestAmerica Buffalo

Amherst, NY 14228-2298

0 Hazelwood Drive

the season in propositional testing **TestAmerica** 

N - None
O - Ashao2
P - Na2O4S
Q - Na2S03
R - Na2S2S03
S + T-SSC4
T - TSP Dodecahydrate
U - Acetane
V - MCAA Special Instructions/Note: Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month COC No: 480-78332-10586.1 Preservation Codes D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Date/Lime: S-24~lC Total Number of containers S-38-W 480-100611 Chain of Custody Method of Shipment: Special Instructions/QC Requirements: Analysis Requ E-Mail: orlette johnson@testamericainc.com Return To Client Lab PM: Johnson, Oriette S Time Company 7 & Company OBO (W=water, S=solid, O=waste/oil, Preservation Code: Matrix Water Koewnerko Radiological Type (C=comp, G=grab) 315-739-1300 Sample 19:02 01:0/ Sample 1:10 Time Samplem ARTIN Date: Unknown TAT Requested (days): Date/Time: 5-24-16 Date/Time: Due Date Requested: 2-34-16 PO#. 11312000EST Sample Date Project #: 48008584 SSOW#: ¥ Q Poison B Skin Imtant Jeliverable Requested: I, II, III, IV, Other (specify) Phone (716) 691-2600 Fax (716) 691-7991 Address: 333 West Washington St. PO BOX 4873 hone: .15-956-6100(Tel) 315-463-7554(Fax) Noth Kom O'Brien & Gere Inc of North America Possible Hazard Identification
Non-Hazard Flammable 052416 Empty Kit Relinquished by: Former Accurate Die Cast Client Information Sample Identification furi. Veliz@obg.com Non-Hazard City. East Syracuse Client Contact: Mr. Yuri Veliz elinquished by: State, Zip: NY, 13221 Effluent

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Cooler Temperature(s) °C and Other Remarks:

ived by:

Company

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telinquished by:

Custody Seal No.:

Custody Seals Intact: Δ Yes Δ No

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-100611-1

Login Number: 100611 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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	

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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: 480-100894-1

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: 6/14/2016 5:10:23 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

LINKS .....

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Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

3

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13

# **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-100894-1

# Glossary

TEQ

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
Percent Recovery
Contains Free Liquid
Contains no Free Liquid
Duplicate error ratio (normalized absolute difference)
Dilution Factor
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision level concentration
Minimum detectable activity
Estimated Detection Limit
Minimum detectable concentration
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative error ratio
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)

### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100894-1

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Job ID: 480-100894-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-100894-1

### Receipt

The sample was received on 6/1/2016 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° 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: 480-100894-1

Client Sample ID: EFFLUENT 053116

Lab Sampl	le ID: 4	<del>1</del> 80-10	0894-1
-----------	----------	--------------------	--------

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Total Dissolved Solids	623	10.0	4.0 mg/L	1 SM2540 C	Total/NA

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# **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100894-1

Client Sample ID: EFFLUENT 053116 Lab Sample ID: 480-100894-1

Date Collected: 05/31/16 07:15 Matrix: Water

Date Received: 06/01/16 01:30

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	623		10.0	4.0	mg/L			06/05/16 08:18	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND	<del></del>	4.0	4.0	mg/L			06/05/16 14:03	1

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TestAmerica Job ID: 480-100894-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: EFFLUENT 053116

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

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

Lab Sample ID: MB 480-305130/1

**Matrix: Water** 

Analysis Batch: 305130

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac D 1.0 06/05/16 14:03 Total Suspended Solids  $\overline{\mathsf{ND}}$ 1.0 mg/L

Lab Sample ID: LCS 480-305130/2

**Matrix: Water** 

**Analysis Batch: 305130** 

Spike LCS LCS %Rec. Limits Added Analyte Result Qualifier Unit %Rec 224 **Total Suspended Solids** 221.2 mg/L 99 88 - 110

Lab Sample ID: 480-100894-1 DU

**Matrix: Water** 

Analysis Batch: 305130

Sample Sample DU DU **RPD** Result Qualifier RPD Result Qualifier Analyte Unit D **Total Suspended Solids**  $\overline{\mathsf{ND}}$ ND mg/L 10

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-305086/1

**Matrix: Water** 

**Analysis Batch: 305086** 

MB MB

Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 06/05/16 08:18

Lab Sample ID: LCS 480-305086/2

**Matrix: Water** 

**Analysis Batch: 305086** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D Total Dissolved Solids 504 481.0 mg/L 96 85 - 115 Limit

TestAmerica Buffalo

# **QC Association Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100894-1

## **General Chemistry**

#### Analysis Batch: 305086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100894-1	EFFLUENT 053116	Total/NA	Water	SM2540 C	
LCS 480-305086/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-305086/1	Method Blank	Total/NA	Water	SM2540 C	

#### **Analysis Batch: 305130**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100894-1	EFFLUENT 053116	Total/NA	Water	SM 2540D	<del></del>
480-100894-1 DU	EFFLUENT 053116	Total/NA	Water	SM 2540D	
LCS 480-305130/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-305130/1	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: 480-100894-1

Client Sample ID: EFFLUENT 053116

Date Collected: 05/31/16 07:15 Date Received: 06/01/16 01:30

Lab Sample ID: 480-100894-1 **Matrix: Water** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			305130	06/05/16 14:03	CDC	TAL BUF
Total/NA	Analysis	SM2540 C		1	305086	06/05/16 08:18	ELR	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: 480-100894-1

estAmenta 300 iD. 400-100094-1

## **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-100894-1

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

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# **Sample Summary**

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

TestAmerica Job ID: 480-100894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100894-1	EFFLUENT 053116	Water	05/31/16 07:15	06/01/16 01:30

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Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Total Number of containers Method of Shipment \$ Special Instructions/QC Requirements: Analysis Re Lab PM:
Johnson, Orlette S
E-Mail:
orlette johnson@testamericainc.com Chain of Custody Record Company Company Matrix (W=water, S=solid, O=waste/oil, Preservation Code: Water

Sample Type (C=comp, G=grab)

Sample Time

Sample Date

5-31-16

3116

05

Effluent

Sample Identification

Special Instructions/Note:

# TestAmerica Buffalo

	691-799
Amherst, NY 14228-2298	Phone (716) 691-2600 Fax (716) 691-7991

**Client Information** 

Slient Contact Vir. Yuri Veliz

MARTIN Koewwak

315-729-1300

TAT Requested (days): Due Date Requested:

333 West Washington St. PO BOX 4873

East Syracuse

State, Zip: NY, 13221

ompany: 'Brien & Gere Inc of North America

PO#: 11312000EST

hone: 115-956-6100(Tel) 315-463-7554(Fax)

WO#

Project #. 48008584 SSOW#:

Former Accurate Die Cast

runi. Veliz@obg.com

THE LIADER IN PRINCESSERVENTAL TESTING

30C No: 480-78333-10586.1

Page: Page 1 of 1

reservation Codes

TestAmerico

N - None
O - Ashaoo
P - NazO45
Q - NazS03
R - NazS203
S - H2SO4
T - TSP Dodecatydrate
U - Acetone
W - ph 4-5
Z - other (specify)

H - Ascorbic Acid

i - loe J - Di Water K - EDTA L - EDA

D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor

elinquished by:

Custody Seals Intact: Custody Seal No.:

SE SE

0130

91-1-9

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Date/Time:

Date/Time: 5-31-16

Radiological

Unknown

Poison B

Skin Irritant

eliverable Requested: I, II, III, IV, Other (specify

Empty Kit Relinquished by:

Flammable

Non-Hazard

Possible Hazard Identification

Date;

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Sooler Temperature(s) °C and Other Remarks:

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-100894-1

Login Number: 100894 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator: Williams, Christopher S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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	

Page 14 of 14

6/14/2016

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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: 480-101447-1

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: 6/22/2016 6:02:29 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

3

4

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11

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11

# **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-101447-1

<b>Glossary</b>
-----------------

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101447-1

Job ID: 480-101447-1

**Laboratory: TestAmerica Buffalo** 

**Narrative** 

Job Narrative 480-101447-1

#### Receipt

The samples were received on 6/10/2016 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° 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: 480-101447-1

3

Client Sample ID: EFFLUENT 060916

**Client Sample ID: BETWEEN CARBONS 060916** 

Lab Sample ID: 480-101447-1

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

Lab Sample ID: 480-101447-2

No Detections.

Client Sample ID: EFFLUENT 060916 Lab Sample ID: 480-101447-3

No Detections.

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## **Client Sample Results**

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

TestAmerica Job ID: 480-101447-1

Client Sample ID: EFFLUENT 060916

Date Collected: 06/09/16 07:30 Date Received: 06/10/16 01:15

Lab Sample ID: 480-101447-1

**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			06/15/16 02:45	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/15/16 05:28	1

Lab Sample ID: 480-101447-2 Client Sample ID: BETWEEN CARBONS 060916

Date Collected: 06/09/16 07:30 Date Received: 06/10/16 01:15

**Matrix: Water** 

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

RL **MDL** Unit D **Prepared** Analyzed Dil Fac 1,1,2,2-Tetrachloroethane ND 1.0 0.21 ug/L 06/18/16 03:29 cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 06/18/16 03:29 ND Methylene Chloride 1.0 0.44 ug/L 06/18/16 03:29 Tetrachloroethene ND 1.0 0.36 ug/L 06/18/16 03:29 Toluene ND 1.0 0.51 ug/L 06/18/16 03:29 trans-1,2-Dichloroethene ND 1.0 0.90 ug/L 06/18/16 03:29 Trichloroethene ND 1.0 0.46 ug/L 06/18/16 03:29

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	66 - 137		06/18/16 03:29	1
4-Bromofluorobenzene (Surr)	92	73 - 120		06/18/16 03:29	1
Toluene-d8 (Surr)	95	71 - 126		06/18/16 03:29	1
Dibromofluoromethane (Surr)	114	60 - 140		06/18/16 03:29	1

Client Sample ID: EFFLUENT 060916 Lab Sample ID: 480-101447-3

93

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113

Date Collected: 06/09/16 07:30 **Matrix: Water** 

Date Received: 06/10/16 01:15

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/18/16 03:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/18/16 03:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/18/16 03:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/18/16 03:54	1
Toluene	ND		1.0	0.51	ug/L			06/18/16 03:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/18/16 03:54	1
Trichloroethene	ND		1.0	0.46	ug/L			06/18/16 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 137			•		06/18/16 03:54	1

73 - 120

71 - 126

60 - 140

TestAmerica Buffalo

06/18/16 03:54

06/18/16 03:54

06/18/16 03:54

## **Surrogate Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101447-1

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recover						
		12DCE	BFB	TOL	DBFM			
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)	(60-140)			
480-101447-2	BETWEEN CARBONS 060916	110	92	95	114			
480-101447-3	EFFLUENT 060916	111	93	93	113			
LCS 480-307323/5	Lab Control Sample	95	101	97	96			
MB 480-307323/7	Method Blank	103	94	93	106			

**Surrogate Legend** 

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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TestAmerica Job ID: 480-101447-1

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

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

Lab Sample ID: MB 480-307323/7

Client Sample ID: Method Blank
Matrix: Water

Prep Type: Total/NA

**Analysis Batch: 307323** 

	MR MR							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND -	1.0	0.21	ug/L			06/17/16 22:38	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			06/17/16 22:38	1
Methylene Chloride	ND	1.0	0.44	ug/L			06/17/16 22:38	1
Tetrachloroethene	ND	1.0	0.36	ug/L			06/17/16 22:38	1
Toluene	ND	1.0	0.51	ug/L			06/17/16 22:38	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			06/17/16 22:38	1
Trichloroethene	ND	1.0	0.46	ug/L			06/17/16 22:38	1

MB MB Dil Fac %Recovery Qualifier Limits Prepared Analyzed Surrogate 1,2-Dichloroethane-d4 (Surr) 103 66 - 137 06/17/16 22:38 4-Bromofluorobenzene (Surr) 94 73 - 120 06/17/16 22:38 Toluene-d8 (Surr) 93 71 - 126 06/17/16 22:38 106 60 - 140 Dibromofluoromethane (Surr) 06/17/16 22:38

Lab Sample ID: LCS 480-307323/5

**Matrix: Water** 

**Analysis Batch: 307323** 

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	25.0	24.1		ug/L		97	74 - 124	
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122	
Toluene	25.0	24.6		ug/L		98	80 - 122	
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127	
Trichloroethene	25.0	23.5		ug/L		94	74 - 123	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 66 - 137 101 4-Bromofluorobenzene (Surr) 73 - 120 Toluene-d8 (Surr) 97 71 - 126 Dibromofluoromethane (Surr) 96 60 - 140

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

Lab Sample ID: MB 480-306708/1

Matrix: Water

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

**Analysis Batch: 306708** 

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			06/15/16 05:28	1

Lab Sample ID: LCS 480-306708/2

Matrix: Water

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

**Analysis Batch: 306708** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	258	254.0		mg/L	_	98	88 - 110	

TestAmerica Buffalo

Page 8 of 16

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# **QC Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101447-1

2

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

Lab Sample ID: 480-101447-1 DU

Client Sample ID: EFFLUENT 060916

Matrix: Water

Prep Type: Total/NA

**Analysis Batch: 306708** 

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Suspended Solids	ND		 ND		mg/L		NC	10

#### Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-306699/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 306699

MB M

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			06/15/16 02:45	1

Lab Sample ID: LCS 480-306699/2

Matrix: Water

Analysis Batch: 306699

Spike

LCS LCS

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

\*\*Rec.\*\*

AnalyteAddedResultQualifierUnitD%RecLimitsTotal Dissolved Solids501491.0mg/L9885 - 115

# **QC Association Summary**

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

TestAmerica Job ID: 480-101447-1

### **GC/MS VOA**

#### **Analysis Batch: 307323**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
480-101447-2	BETWEEN CARBONS 060916	Total/NA	Water	8260C	
480-101447-3	EFFLUENT 060916	Total/NA	Water	8260C	
LCS 480-307323/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-307323/7	Method Blank	Total/NA	Water	8260C	

## **General Chemistry**

#### **Analysis Batch: 306699**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101447-1	EFFLUENT 060916	Total/NA	Water	SM2540 C	
LCS 480-306699/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-306699/1	Method Blank	Total/NA	Water	SM2540 C	

#### **Analysis Batch: 306708**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101447-1	EFFLUENT 060916	Total/NA	Water	SM 2540D	
480-101447-1 DU	EFFLUENT 060916	Total/NA	Water	SM 2540D	
LCS 480-306708/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-306708/1	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: 480-101447-1

**Client Sample ID: EFFLUENT 060916** 

Date Collected: 06/09/16 07:30 Date Received: 06/10/16 01:15

Lab Sample ID: 480-101447-1

**Matrix: Water** 

l		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D			306708	06/15/16 05:28	DCB	TAL BUF
l	Total/NA	Analysis	SM2540 C		1	306699	06/15/16 02:45	DCB	TAL BUF

**Client Sample ID: BETWEEN CARBONS 060916** Lab Sample ID: 480-101447-2

Date Collected: 06/09/16 07:30 Date Received: 06/10/16 01:15

**Matrix: Water** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	307323	06/18/16 03:29	RAS	TAL BUF

Lab Sample ID: 480-101447-3 Client Sample ID: EFFLUENT 060916

Date Collected: 06/09/16 07:30 **Matrix: Water** 

Date Received: 06/10/16 01:15

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	307323	06/18/16 03:54	RAS	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: 480-101447-1

## **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
1	New York	NELAP	2	10026	03-31-17

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# **Method Summary**

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

TestAmerica Job ID: 480-101447-1

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: 480-101447-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
480-101447-1	EFFLUENT 060916	Water	06/09/16 07:30 06/10/16 01:15
480-101447-2	BETWEEN CARBONS 060916	Water	06/09/16 07:30 06/10/16 01:15
480-101447-3	EFFLUENT 060916	Water	06/09/16 07:30 06/10/16 01:15

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# Chain of Custody Record

Phone (716) 691-2600 Fax (716) 691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

TestAmerica Buffalo

O. AsNaO2
P. Na2O4S
Q. Na2SO3
R. Na2SO3
S. H.2SO4
T. TSP Dodecahydrate
U. Acetone
W. Pn 4-6
Z. other (specify) Special Instructions/Note: Somple # 21 Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon をする reservation Codes: COC No: 480-78321-10588.1 H - Ascorbic Acid Page 1 of 1 Job#: J - DI Water K - EDTA L - EDA G - Amchior Total Number of containers  $M_0 j$ Date/Time: 480-101447 Chain of Custody Method of Shipment: Analysis Request Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: orlette.johnson@testamericainc.com 113 ( ved by: Lab PM: Johnson, Orlette S 14 Time: Company 6 with Company Matrix Water Water MACTION KOCANANCKO Type (C=comp, G=grab) Radiological Sample B ググ :00 Phone: 45-739-1300 7:30 7:30 3 Sample Time Unknown (AT Requested (days): Due Date Requested: Sample Date 01-6-0 01-4-1 91-6-9 Date/Time: Project #: 48008584 SSOW#: PO#. 11600011 ₩O₩ Poison B Skin Irritant Mon-Hazard Flammable Skin Imi Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Address: 333 West Washington St. PO BOX 4873 016090 15-956-6100(Tel) 315-463-7554(Fax) Between Carbons 060916 Company: O'Brien & Gere Inc of North America Flammable 060916 Possible Hazard Identification Empty Kit Relinquished by: Former Accurate Die Cast Custody Seals Intact: Client Information Sample Identification Trent Dia Δ Yes Δ No ruri.Veliz@obg.com East Syracuse Client Contact. Mr. Yuri Veliz elinquished by: State, Zip: NY, 13221 Effluent Page 15-01/01/6 - 926681

6/22/2016

# **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-101447-1

Login Number: 101447 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Overtion	A manua	Cammart
Question Particular visits and a second design of the second design of t	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	

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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: 480-101556-1

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: 6/22/2016 6:37:54 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

**Review your project** results through Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receint Checklists	14

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9

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12

# **Definitions/Glossary**

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-101556-1

Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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

TestAmerica Buffalo

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101556-1

Job ID: 480-101556-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-101556-1

#### Receipt

The sample was received on 6/14/2016 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° 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: 480-101556-1

Client Sample ID: EFFLUENT 061316

Lab	Samp	le ID:	480-1	1015	56-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Total Dissolved Solids	666	10.0	4.0 mg/L		SM2540 C	Total/NA

# **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101556-1

**Client Sample ID: EFFLUENT 061316** 

Lab Sample ID: 480-101556-1

Date Collected: 06/13/16 07:15

. Matrix: Water

Date Received: 06/14/16 10:00

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	666		10.0	4.0	mg/L			06/16/16 00:16	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/16/16 03:14	1

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TestAmerica Job ID: 480-101556-1

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

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

Lab Sample ID: MB 480-306908/1

**Matrix: Water** 

**Analysis Batch: 306908** 

MB MB Analyte Result Qualifier

Total Suspended Solids  $\overline{\mathsf{ND}}$ 

RL **RL** Unit 1.0 1.0 mg/L

Prepared D

%Rec

98

06/16/16 03:14

Analyzed

**Prep Type: Total/NA** 

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

**Matrix: Water** 

**Analysis Batch: 306908** 

Analyte

Lab Sample ID: LCS 480-306908/2

**Total Suspended Solids** 

Spike Added 254

Result Qualifier 249.6

LCS LCS

Unit mg/L Limits 88 - 110

Client Sample ID: Method Blank

Analyzed

06/16/16 00:16

%Rec.

Client Sample ID: Method Blank

Prep Type: Total/NA

Client Sample ID: EFFLUENT 061316

**Matrix: Water** 

**Analysis Batch: 306908** 

Analyte

Lab Sample ID: 480-101556-1 DU

Sample Sample Result Qualifier **Total Suspended Solids**  $\overline{\mathsf{ND}}$ 

DU DU Result Qualifier ND

Unit D mg/L

**RPD** RPD Limit 10

Prep Type: Total/NA

Prep Type: Total/NA

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-306907/1

**Matrix: Water** 

**Analysis Batch: 306907** 

MB MB

Result Qualifier

Total Dissolved Solids ND

Lab Sample ID: LCS 480-306907/2

**Matrix: Water Analysis Batch: 306907** 

Total Dissolved Solids

Analyte

Spike Added 501 LCS LCS

10.0

Result Qualifier 496.0

**MDL** Unit

4.0 mg/L

D

Unit

mg/L

%Rec. %Rec Limits 99 85 - 115

**Client Sample ID: Lab Control Sample** 

Prepared

Dil Fac

TestAmerica Buffalo

# **QC Association Summary**

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

TestAmerica Job ID: 480-101556-1

## **General Chemistry**

#### Analysis Batch: 306907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101556-1	EFFLUENT 061316	Total/NA	Water	SM2540 C	
LCS 480-306907/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-306907/1	Method Blank	Total/NA	Water	SM2540 C	

#### **Analysis Batch: 306908**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-101556-1	EFFLUENT 061316	Total/NA	Water	SM 2540D	· <del></del>
480-101556-1 DU	EFFLUENT 061316	Total/NA	Water	SM 2540D	
LCS 480-306908/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-306908/1	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: 480-101556-1

Lab Sample ID: 480-101556-1

**Client Sample ID: EFFLUENT 061316** Date Collected: 06/13/16 07:15 **Matrix: Water** 

Date Received: 06/14/16 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D			306908	06/16/16 03:14	DCB	TAL BUF
Total/NA	Analysis	SM2540 C		1	306907	06/16/16 00:16	DCB	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: 480-101556-1

## **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

1	Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
1	New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-101556-1

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

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## **Sample Summary**

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

TestAmerica Job ID: 480-101556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-101556-1	EFFLUENT 061316	Water	06/13/16 07:15	06/14/16 10:00

**TestAmerico** 

THE LEADER IN ENDRICHMENTAL TESTING

Chain of Custody Record

Phone (716) 691-2600 Fax (716) 691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

TestAmerica Buffalo

M - Hexane
N - None
O - AsNaO2
Na2204S
Na2203
Na2203
Na2203
Na2203
Na2200
TSP Dodecatydrate
Acetone
MCAA
ph 4-5
other (specify) Special Instructions/Note: Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont
Special Instructions/QC Requirements: 480-78334-10586.1 Page: Page 1 of 1 Job #: Preservation Codes A - HCL B - NaOH C - 7n Aceta Other: 480-101556 Chain of Custody hop to redmuM latoT 🗙 Aethod of Shipment Analysis Requested Lab PM: Johnson, Orlette S E-Mait: orlette johnson@testamericainc.com Preservation Code: Matrix (W=water, S=solid, O=waste/oll, Water Sample MARIN KDENNECKE Type (C=comp, G=grab) Radiological thone: 315-729-1300 Sample Sample Time 7:15 Date: Unknown (days): Due Date Requested: Sample Date 2-13-16 PO#: 11600011 WO#: Project #: 48008584 SSOW#: Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) O'Brien & Gere Inc of North America Non-Hazard Flammable Possible Hazard Identification 0/6100 Empty Kit Relinquished by: Former Accurate Die Cast Client Information Sample Identification ruri.Veliz@obg.com East Syracuse Client Contact Mr. Yuri Veliz State, Zip: NY, 13221 Effluent Page 13 of 14

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Cooler Temperature(s) °C and Other Remarks:

Received by:

Time:

Company O B C

9.30

Date/Time: 6 −13−/6

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elinquished by: elinquished by: Custody Seal No.:

Custody Seals Intact: Δ Yes Δ No

## **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-101556-1

Login Number: 101556 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Creator. Williams, Christopher 3		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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	

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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: 480-102199-1

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: 7/11/2016 2:39:16 PM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

.....LINKS .....

Review your project results through

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**Have a Question?** 



Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

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## **Definitions/Glossary**

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-102199-1

#### Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
a	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102199-1

Job ID: 480-102199-1

Laboratory: TestAmerica Buffalo

**Narrative** 

Job Narrative 480-102199-1

#### Receipt

The samples were received on 6/24/2016 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was  $2.0^{\circ}$  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: 480-102199-1

Client Sample ID: EFFLUENT 062316 Lab Sample ID: 480-102199-1

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

Client Sample ID: EFFLUENT 062316 Lab Sample ID: 480-102199-2

No Detections.

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## **Client Sample Results**

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

TestAmerica Job ID: 480-102199-1

Client Sample ID: EFFLUENT 062316

Date Collected: 06/23/16 07:15 Date Received: 06/24/16 01:30

Lab Sample ID: 480-102199-1 **Matrix: Water** 

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	648		10.0	4.0	mg/L			06/28/16 02:28	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/27/16 18:40	1

Client Sample ID: EFFLUENT 062316 Lab Sample ID: 480-102199-2

Date Collected: 06/23/16 07:15 **Matrix: Water** 

Date Received: 06/24/16 01:30

Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/30/16 14:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/30/16 14:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/30/16 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/16 14:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/30/16 14:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/30/16 14:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/30/16 14:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/30/16 14:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/30/16 14:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/30/16 14:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/30/16 14:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/30/16 14:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/30/16 14:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/30/16 14:41	1
2-Hexanone	ND		5.0	1.2	ug/L			06/30/16 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/30/16 14:41	1
Acetone	ND		10	3.0	ug/L			06/30/16 14:41	1
Benzene	ND		1.0	0.41	ug/L			06/30/16 14:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/30/16 14:41	1
Bromoform	ND		1.0	0.26	ug/L			06/30/16 14:41	1
Bromomethane	ND		1.0	0.69	ug/L			06/30/16 14:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/30/16 14:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/30/16 14:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/30/16 14:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/30/16 14:41	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/16 14:41	1
Chloroform	ND		1.0	0.34	ug/L			06/30/16 14:41	1
Chloromethane	ND		1.0	0.35	ug/L			06/30/16 14:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/30/16 14:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/30/16 14:41	1
Cyclohexane	ND		1.0	0.18	ug/L			06/30/16 14:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/30/16 14:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/30/16 14:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/30/16 14:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/30/16 14:41	1
Methyl acetate	ND		2.5	1.3	ug/L			06/30/16 14:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/30/16 14:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/30/16 14:41	1
Methylene Chloride	ND		1.0	0 44	ug/L			06/30/16 14:41	1

TestAmerica Buffalo

Page 6 of 18

7/11/2016

## **Client Sample Results**

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

TestAmerica Job ID: 480-102199-1

Lab Sample ID: 480-102199-2

**Matrix: Water** 

C	lient	Sam	ple I	D:	EFF	LUE	ENT	062316	
---	-------	-----	-------	----	-----	-----	-----	--------	--

Date Collected: 06/23/16 07:15 Date Received: 06/24/16 01:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			06/30/16 14:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/30/16 14:41	1
Toluene	ND		1.0	0.51	ug/L			06/30/16 14:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/30/16 14:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/30/16 14:41	1
Trichloroethene	ND		1.0	0.46	ug/L			06/30/16 14:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/30/16 14:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/30/16 14:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/30/16 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		71 - 126			-		06/30/16 14:41	1
1,2-Dichloroethane-d4 (Surr)	88		66 - 137					06/30/16 14:41	1
4-Bromofluorobenzene (Surr)	103		73 - 120					06/30/16 14:41	1
Dibromofluoromethane (Surr)	94		60 - 140					06/30/16 14:41	1

#### **Surrogate Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102199-1

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-126)	(66-137)	(73-120)	(60-140)
480-102199-2	EFFLUENT 062316	87	88	103	94
LCS 480-309309/4	Lab Control Sample	90	85	105	94
MB 480-309309/6	Method Blank	90	90	104	96
Surrogate Legend					

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Buffalo

TestAmerica Job ID: 480-102199-1

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

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

Lab Sample ID: MB 480-309309/6

**Matrix: Water** 

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

Analysis Batch: 309309	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/30/16 10:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/30/16 10:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/30/16 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/16 10:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/30/16 10:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/30/16 10:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/30/16 10:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/30/16 10:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/30/16 10:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/30/16 10:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/30/16 10:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/30/16 10:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/30/16 10:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/30/16 10:35	1
2-Hexanone	ND		5.0	1.2	ug/L			06/30/16 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/30/16 10:35	1
Acetone	ND		10	3.0	ug/L			06/30/16 10:35	1
Benzene	ND		1.0	0.41	ug/L			06/30/16 10:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/30/16 10:35	1
Bromoform	ND		1.0	0.26	ug/L			06/30/16 10:35	1
Bromomethane	ND		1.0		ug/L			06/30/16 10:35	1
Carbon disulfide	ND		1.0		ug/L			06/30/16 10:35	1
Carbon tetrachloride	ND		1.0		ug/L			06/30/16 10:35	1
Chlorobenzene	ND		1.0		ug/L			06/30/16 10:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/30/16 10:35	1
Chloroethane	ND		1.0		ug/L			06/30/16 10:35	1
Chloroform	ND		1.0		ug/L			06/30/16 10:35	1
Chloromethane	ND		1.0		ug/L			06/30/16 10:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/30/16 10:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/30/16 10:35	1
Cyclohexane	ND		1.0		ug/L			06/30/16 10:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			06/30/16 10:35	1
Ethylbenzene	ND		1.0		ug/L			06/30/16 10:35	1
1,2-Dibromoethane	ND		1.0		ug/L			06/30/16 10:35	1
Isopropylbenzene	ND		1.0	0.79	-			06/30/16 10:35	1
Methyl acetate	ND		2.5		ug/L			06/30/16 10:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			06/30/16 10:35	1
Methylcyclohexane	ND		1.0		ug/L			06/30/16 10:35	1
Methylene Chloride	ND		1.0		ug/L			06/30/16 10:35	1
Styrene	ND		1.0		ug/L			06/30/16 10:35	
Tetrachloroethene	ND		1.0		ug/L			06/30/16 10:35	1
Toluene	ND		1.0		ug/L			06/30/16 10:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/30/16 10:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/30/16 10:35	1
Trichloroethene	ND		1.0		ug/L			06/30/16 10:35	1
Trichlorofluoromethane	ND		1.0		ug/L			06/30/16 10:35	
Vinyl chloride	ND		1.0		ug/L			06/30/16 10:35	1
Xylenes, Total	ND		2.0		ug/L			06/30/16 10:35	,

TestAmerica Buffalo

Page 9 of 18 7/11/2016

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# **QC Sample Results**

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

TestAmerica Job ID: 480-102199-1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90	71 - 126		06/30/16 10:35	1
1,2-Dichloroethane-d4 (Surr)	90	66 - 137		06/30/16 10:35	1
4-Bromofluorobenzene (Surr)	104	73 - 120		06/30/16 10:35	1
Dibromofluoromethane (Surr)	96	60 - 140		06/30/16 10:35	1

Lab Sample ID: LCS 480-309309/4

**Matrix: Water** 

Analysis Batch: 309309

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

	Spike		LCS				%Rec.	
Analyte	Added		Qualifier	Unit	D 9	%Rec	Limits	
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 126	
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	25.9		ug/L		104	52 - 148	
ne 1,1-Dichloroethane	25.0	25.0		ug/L		100	71 <sub>-</sub> 129	
1,1-Dichloroethene	25.0	24.5		ug/L		98	58 - 121	
1,2,4-Trichlorobenzene	25.0	28.0		ug/L		112	70 - 122	
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		87	56 - 134	
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 124	
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 127	
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120	
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	77 - 120	
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	75 - 120	
2-Butanone (MEK)	125	116		ug/L		93	57 - 140	
2-Hexanone	125	110		ug/L		88	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125	
Acetone	125	138		ug/L		111	56 - 142	
Benzene	25.0	24.7		ug/L		99	71 - 124	
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122	
Bromoform	25.0	21.0		ug/L		84	52 - 132	
Bromomethane	25.0	21.9		ug/L		88	55 - 144	
Carbon disulfide	25.0	22.6		ug/L		91	59 <sub>-</sub> 134	
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134	
Chlorobenzene	25.0	25.5		ug/L		102	72 - 120	
Dibromochloromethane	25.0	23.1		ug/L		92	75 - 125	
Chloroethane	25.0	23.2		ug/L		93	69 - 136	
Chloroform	25.0	24.6		ug/L		98	73 - 127	
Chloromethane	25.0	23.5		ug/L		94	68 - 124	
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	74 - 124	
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 <sub>-</sub> 124	
Cyclohexane	25.0	26.8		ug/L		107	59 - 135	
Dichlorodifluoromethane	25.0	22.6		ug/L		90	59 <sub>-</sub> 135	
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123	
1,2-Dibromoethane	25.0	23.6		ug/L		94	77 - 120	
Isopropylbenzene	25.0	25.2		ug/L		101	77 - 122	
Methyl acetate	125	103		ug/L		83	74 - 133	
Methyl tert-butyl ether	25.0	21.9		ug/L		88	64 - 127	
Methylcyclohexane	25.0	27.9		ug/L		112	61 - 138	
Methylene Chloride	25.0	24.3		ug/L		97	57 - 132	
Styrene	25.0	24.2		ug/L		97	70 - 130	
Tetrachloroethene	25.0	27.9		ug/L		111	74 - 122	
Toluene	25.0	25.4		ug/L		102	80 - 122	
trans-1,2-Dichloroethene	25.0	24.6		ug/L		99	73 - 127	

TestAmerica Buffalo

Spike Added

25.0

25.0

25.0

25.0

23.8

TestAmerica Job ID: 480-102199-1

Client: O'Brien & Gere Inc of North America

Project/Site: Former Accurate Die Cast

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

Lab Sample ID: LCS 480-309309/4

**Matrix: Water** 

Trichloroethene

Vinyl chloride

Analyte

**Analysis Batch: 309309** 

trans-1,3-Dichloropropene

Trichlorofluoromethane

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

65 - 133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS	LCS				%Rec.	
Result	Qualifier	Unit	D	%Rec	Limits	
23.1		ug/L	_	92	72 - 123	
25.8		ug/L		103	74 - 123	
28.2		ug/L		113	62 - 152	

95

ug/L

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	90		71 - 126
1,2-Dichloroethane-d4 (Surr)	85		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	94		60 - 140

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

Lab Sample ID: MB 480-308782/1 **Client Sample ID: Method Blank Prep Type: Total/NA** 

**Matrix: Water** 

Analysis Batch: 308782

мв мв

Analyte	Result	Qualifier	RL	RL	Unit	D	)	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L				06/27/16 18:40	1

Lab Sample ID: LCS 480-308782/2

**Matrix: Water** 

**Analysis Batch: 308782** 

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	251	254.0		mg/L		101	88 - 110	 

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-308804/1 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 308804** 

											N	ΙB	Ν	ИB

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			06/28/16 02:28	1

Lab Sample ID: LCS 480-308804/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 308804

	Spike	LCS LCS				%Rec.	
Analyte	Added	Result Qual	lifier Unit	D	%Rec	Limits	
Total Dissolved Solids	501	479.0	mg/L		96	85 - 115	

TestAmerica Buffalo

# **QC Association Summary**

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

TestAmerica Job ID: 480-102199-1

#### **GC/MS VOA**

#### **Analysis Batch: 309309**

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
EFFLUENT 062316	Total/NA	Water	8260C	
Lab Control Sample	Total/NA	Water	8260C	
Method Blank	Total/NA	Water	8260C	
	EFFLUENT 062316 Lab Control Sample	EFFLUENT 062316 Total/NA Lab Control Sample Total/NA	EFFLUENT 062316 Total/NA Water Lab Control Sample Total/NA Water	EFFLUENT 062316 Total/NA Water 8260C Lab Control Sample Total/NA Water 8260C

#### **General Chemistry**

#### **Analysis Batch: 308782**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102199-1	EFFLUENT 062316	Total/NA	Water	SM 2540D	
LCS 480-308782/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-308782/1	Method Blank	Total/NA	Water	SM 2540D	

#### **Analysis Batch: 308804**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102199-1	EFFLUENT 062316	Total/NA	Water	SM2540 C	
LCS 480-308804/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-308804/1	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: 480-102199-1

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Client Sample ID: EFFLUENT 062316

Date Collected: 06/23/16 07:15 Date Received: 06/24/16 01:30 Lab Sample ID: 480-102199-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	308782	06/27/16 18:40	CDC	TAL BUF
Total/NA	Analysis	SM2540 C		1	308804	06/28/16 02:28	DCB	TAL BUF

Client Sample ID: EFFLUENT 062316 Lab Sample ID: 480-102199-2

Date Collected: 06/23/16 07:15

Date Received: 06/24/16 01:30

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309309	06/30/16 14:41	SWO	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: 480-102199-1

#### **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA Region</b>	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

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# **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102199-1

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

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## **Sample Summary**

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

TestAmerica Job ID: 480-102199-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-102199-1	EFFLUENT 062316	Water	06/23/16 07:15	06/24/16 01:30
480-102199-2	EFFLUENT 062316	Water	06/23/16 07:15	06/24/16 01:30

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the erader in Enhanchmental Testing **TestAmerica** 

Chain of Custody Record

Phone (716) 691-2600 Fax (716) 691-7991

Amherst, NY 14228-2298

10 Hazelwood Drive

TestAmerica Buffalo

102 45 03 203 4 odecahydrate Special Instructions/Note: M - Hexane N - None Sompany Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont COC No: 480-78348-10587.1 Preservation Codes Page: Page 1 of 1 Job#: A - HCL B - NaOH 480-102199 Chain of Custody 407 Total Mumber of con × 100 Aethod of Shipment: **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements Lab PW:
Johnson, Orlette S
E-Mail:
orlette.johnson@testamericainc.com S spenodulo Diganic Compounds Preservation Code. Matrix Water 25/2 Koenneck Type (C=comp, G=grab) Radiological ( 315-1729-1300 Sample Time 7.15 51:4 Unknown Sample: 18 Kilon 'AT Requested (days): Due Date Requested: Date/Time: 6-23-16 1915 (-3 3 16 Sample Date 6-23-16 6-23-16 Project #: 48008584 SSOW#: PO#: 11600011 ₩O.₩ Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) 063316 Custody Seal No. 333 West Washington St. PO BOX 4873 315-463-7554(Fax) O'Brien & Gere Inc of North America Non-Hazard Flammable Possible Hazard Identification 062316 Empty Kit Relinquished by: Former Accurate Die Cast Custody Seals Intact: △ Yes △ No Client Information Sample Identification おうがら ruri.Veliz@obg.com Phone: 315-956-6100(Tel) East Syracuse Mr. Yuri Veliz State, Zip: NY, 13221 W Effluent

481326g 8779766 FG 8

7/11/2016

## **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-102199-1

Login Number: 102199 List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Creator: Janish, Cari 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 (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo



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: 480-102363-1

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: 7/13/2016 7:52:07 AM

Orlette Johnson, Senior Project Manager (484)685-0864

orlette.johnson@testamericainc.com

LINKS .....

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Visit us at: www.testamericainc.com

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

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

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

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	14

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## **Definitions/Glossary**

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 480-102363-1

#### Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

#### **Case Narrative**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102363-1

Job ID: 480-102363-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-102363-1

#### Receipt

The sample was received on 6/29/2016 2:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° 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**

RL

10.0

Result Qualifier

636

MDL Unit

4.0 mg/L

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

Analyte

Total Dissolved Solids

TestAmerica Job ID: 480-102363-1

Lab Sample ID: 480-102363-1

e

Dil Fac	D	Method	Prep Type
 1	_	SM2540 C	Total/NA

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# **Client Sample Results**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102363-1

**Client Sample ID: EFFLUENT 062816** 

Lab Sample ID: 480-102363-1

Date Collected: 06/28/16 07:15 Date Received: 06/29/16 02:15

Campio	 -100	. 020	00	•
	Ma	atrix: V	<b>Nate</b>	r

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	636		10.0	4.0	mg/L			06/30/16 10:08	1
Analyte Total Supponded Solida		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/30/16 14:58	1

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TestAmerica Job ID: 480-102363-1

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

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

Lab Sample ID: MB 480-309406/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 309406

MB MB Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 1.0 06/30/16 14:58 Total Suspended Solids ND 1.0 mg/L

Lab Sample ID: LCS 480-309406/2 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 309406** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec **Total Suspended Solids** 262 261.6 mg/L 100 88 - 110

Lab Sample ID: 480-102363-1 DU Client Sample ID: EFFLUENT 062816 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 309406

Sample Sample DU DU **RPD** Result Qualifier RPD Result Qualifier Limit Analyte Unit D **Total Suspended Solids**  $\overline{\mathsf{ND}}$ ND mg/L

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-309343/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 309343** 

MB MB Result Qualifier **MDL** Unit Prepared Analyzed Total Dissolved Solids ND 10.0 4.0 mg/L 06/30/16 10:08

Lab Sample ID: LCS 480-309343/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 309343** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Total Dissolved Solids 506 489.0 mg/L 97 85 - 115

Lab Sample ID: 480-102363-1 DU Client Sample ID: EFFLUENT 062816 **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 309343** 

Sample Sample DU DU **RPD** Result Qualifier Result Qualifier RPD Limit Analyte Unit D **Total Dissolved Solids** 636 634.0 mg/L 0.3 10

# **QC Association Summary**

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

## **General Chemistry**

#### Analysis Batch: 309343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102363-1	EFFLUENT 062816	Total/NA	Water	SM2540 C	
480-102363-1 DU	EFFLUENT 062816	Total/NA	Water	SM2540 C	
LCS 480-309343/2	Lab Control Sample	Total/NA	Water	SM2540 C	
MB 480-309343/1	Method Blank	Total/NA	Water	SM2540 C	

#### Analysis Batch: 309406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102363-1	EFFLUENT 062816	Total/NA	Water	SM 2540D	
480-102363-1 DU	EFFLUENT 062816	Total/NA	Water	SM 2540D	
LCS 480-309406/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-309406/1	Method Blank	Total/NA	Water	SM 2540D	

TestAmerica Job ID: 480-102363-1

#### **Lab Chronicle**

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

TestAmerica Job ID: 480-102363-1

Lab Sample ID: 480-102363-1

**Matrix: Water** 

Client Sample ID: EFFLUENT 062816 Date Collected: 06/28/16 07:15

Date Received: 06/29/16 02:15

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D			309406	06/30/16 14:58	EKB	TAL BUF
l	Total/NA	Analysis	SM2540 C		1	309343	06/30/16 10:08	EKB	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: 480-102363-1

#### **Laboratory: TestAmerica Buffalo**

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA</b> Region	Certification ID	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-17

Page 10 of 14

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## **Method Summary**

Client: O'Brien & Gere Inc of North America Project/Site: Former Accurate Die Cast TestAmerica Job ID: 480-102363-1

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

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## **Sample Summary**

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

TestAmerica Job ID: 480-102363-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-102363-1	EFFLUENT 062816	Water	06/28/16 07:15	06/29/16 02:15

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OS esnoelés - gzece 0 - AsNaO2 P - Na2O45 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalydrate U - Acetore U - Acetore W - MC-A X - MC-A Z - other (specify) **TestAmerica** the leader in presentable also testing Special Instructions/Note: Company Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For Mont COC No: 480-78334-10586.1 reservation Codes: H - Ascorbic Acid Page 1 of 1 J - DI Water K - EDTA L - EDA anenistinos to redmuki isto] 6-28-K 480-105363 Chain of Custody Method of Shipment Cooler Temperature(s) °C and Other Remarks: Analysis Redu Special Instructions/QC Requirements: E-Mail: orlette.johnson@testamericainc.com 2640C\_Calcd - Total Dissolved Solids Lab PM: Johnson, Orlette S Chain of Custody Record Time: Supple O O O O O O (W=water, S=solid, O=waste/oil, Preservation Code. Matrix Water Company 入ののととなれた Type (C=comp, G=grab) Radiological Sample 25.6 Phone: 315 - 729 - 1300 Sample Time 7:15 Unknown Date/Time: 6-28-16 (AT Requested (days): Sampler. MARIN Date/Time: Due Date Requested: 91-85-0 Sample Date Project #: 48008584 SSOW#: PO#: 11600011 #ON Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. Phone (716) 691-2600 Fax (716) 691-7991 333 West Washington St. PO BOX 4873 315-956-6100(Tel) 315-463-7554(Fax) Sompany: O'Brien & Gere Inc of North America 7118890 Possible Hazard Identifikation TestAmerica Buffalo Empty Kit Relinquished by: Amherst, NY 14228-2298 Former Accurate Die Cast Custody Seals Intact: Client Information Sample Identification Δ Yes Δ No Yuri.Veliz@obg.com 10 Hazelwood Drive East Syracuse Client Contact: Mr. Yuri Veliz elinquished by: elinquished by: Relinquished by State, Zip: NY, 13221 Effluent

Page 13 of 14

13

7/13/2016

## **Login Sample Receipt Checklist**

Client: O'Brien & Gere Inc of North America Job Number: 480-102363-1

Login Number: 102363 List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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

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13