RAMBOLL

ENVIRONMENT
& HEALTH

Mr. Michael Belveg
Regional Enforcement Coordinator – Region 7
New York State Department of Environmental Conservation
615 Erie Blvd. West
Syracuse, NY 13204

Date October 18,2019

Former Accurate Die Casting Site (Site No. 734052), Fayetteville, NY

Dear Mr. Belveg:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site (Site No. 734052) in Fayetteville, New York for the third quarter of 2019 (July 1 through September 30, 2019). 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.

Ramboll
333 West Washington Street
Syracuse, NY 13202
USA

T 315-956-6100
F 315-463-7554
https://ramboll.com

Operation Status and Activities Completed

As of September 30, 2019, a total of 120,333,786 gallons of groundwater have been treated since startup on February 5, 1996. From July 1 to September 30, 2019, 1,072,450 gallons of groundwater were treated: 186,377 gallons from recovery well RW-1; 885,940 gallons from recovery well RW-2; and 133 gallons from the collection trench constructed in the former VOC/PAH/PCB Soils Area. No groundwater was recovered from the overburden groundwater collection sump located in the former soil excavation area along the northwest side of the former manufacturing building (Area 2).

The analytical results associated with the SPDES Fact Sheet monitoring activities performed during April, May, and June 2019 are summarized in **Table 1**. The effluent quality during the period complied with the SPDES discharge limits. The laboratory analytical data sheets are provided as **Attachment A**.

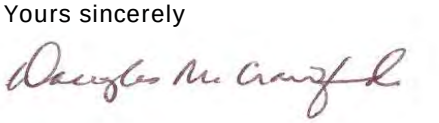
The carbon in granular activated carbon filter GAC#2 was replaced on July 11, 2019 and afterward filter GAC#2 was placed into lag service and GAC#1 placed into lead service.

Activities Scheduled

The groundwater recovery and treatment system will continue to be operated and the SPDES monitoring will continue to be conducted.

If you have any questions regarding this report, please do not hesitate to call David Carnevale at (315) 956-6571.

Yours sincerely



Douglas M. Crawford, PE
Vice President
ENVIRONMENT & HEALTH, AMERICAS

D 315-956-6442
M 315-200-5204
doug.crawford@ramboll.com

cc: H. Warner – New York State Department of Environmental Conservation
E. O'Neil - New York State Department of Health
M. Schuck - New York State Department of Health
T. Slutzky – The Anderson Company
J. Stanek – ITT Corporation
L. Hall – ITT Corporation
E. Gernant – O'Brien & Gere, Office of General Counsel

Table 1
Former Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Discharge Limitation	Discharge Limitation	Minimum Measurement	Sample	7/1/2019	7/2/2019	7/8/2019	7/11/2019	7/12/2019	7/15/2019	7/19/2019	7/22/2019	7/23/2019	7/26/2019	7/29/2019	8/2/2019	8/5/2019	8/7/2019
	Daily Average	Daily Maximum	Frequency (1)	Type														
Flow (GPD)	Monitor	150000	Continuous	Meter	---	12512	12493	12472	12500	12391	12334	12293	12286	12184	12118	9653	11970	11902
pH (SU)	6.5-8.5		2/Week	Grab	---	7.6	7.6	7.7	8.1	7.9	7.6	7.7	7.7	7.6	7.6	7.6	7.6	7.7
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.			<4.0 U			<4.0 U		<4.0 U			<4.0 U			<4.0 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.			650			626		630			587			613
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 U					1 U								1 U
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab	1 U					1 U								1 U
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U
Toluene (ug/L)	Monitor	20	2/Month	Grab	1 U					1 U								1 U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	1 U					1 U								1 U

Notes:
--- - Not analyzed, NA - Data Not available
U - Not Detected, J - Estimated, H - Holding times for preparation or analyses exceeded, B - Compound found in the blank and sample
(1) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.

Table 1
Former Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Discharge Limitation	Discharge Limitation	Minimum Measurement	Sample														
	Daily Average	Daily Maximum	Frequency (1)	Type	8/9/2019	8/12/2019	8/13/2019	8/16/2019	8/19/2019	8/20/2019	8/21/2019	8/23/2019	8/26/2019	8/27/2019	8/28/2019	8/30/2019	9/3/2019	9/4/2019
Flow (GPD)	Monitor	150000	Continuous	Meter	11736	---	11494	11254	11114	11194	7089	11733	11291	11184	11104	11098	11115	11138
pH (SU)	6.5-8.5		2/Week	Grab	7.6	---	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.		<4.0 U			5.2				<4.0 U					<4.0 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.		666			656				633 B					710
Mercury, total (mg/L)	Monitor	0.0008	Quarterly	3-hr comp.														0.00020 U
Zinc, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.														0.0041 J
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab					1 U									1 U
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U
Toluene (ug/L)	Monitor	20	2/Month	Grab					1U									1U
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U									1 U

Notes:
--- - Not analyzed, NA - Data Not available
U - Not Detected, J - Estimated, H - Holding times for preparation or analyses exceeded, B - Compound found in the blank and sample
(1) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.

Table 1
Former Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
	Discharge Limitation	Discharge Limitation	Minimum Measurement	Sample											
	Daily Average	Daily Maximum	Frequency (1)	Type	9/6/2019	9/9/2019	9/10/2019	9/14/2018	9/16/2019	9/17/2019	9/20/2019	9/23/2019	9/27/2019	9/30/2019	10/2/2019
Flow (GPD)	Monitor	150000	Continuous	Meter	11155	11014	10797	10775	10496	10220	10075	9820	9558	9247	9277
pH (SU)	6.5-8.5		2/Week	Grab	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.6	7.7	7.7
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.		<4.0 U			<4.0 U				4.8	<4.0 U	
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.		630			660				665	608	
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 U						
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
Methylene chloride (ug/L)	Monitor	20	2/Month	Grab					1 U						
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	10	2/Month	Grab					1 U						
Tetrachloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						
Toluene (ug/L)	Monitor	20	2/Month	Grab					1U						
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab					1 U						

Notes:
--- - Not analyzed, NA - Data Not available
U - Not Detected, J - Estimated, H - Holding times for preparation or analyses exceeded, B - Compound found in the blank and sample
(1) Minimum monitoring requirements based on SPEDES permit modified November, 21, 1997.

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 480-155667-1
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. David J Carnevale

Authorized for release by:
7/12/2019 7:39:31 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-155667-1
Project/Site: Former Accurate Die Cast

Glossary

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

Job ID: 480-155667-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-155667-1

Receipt
The samples were received on 7/2/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

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

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

Detection Summary

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

Job ID: 480-155667-1

Client Sample ID: EFFLUENT 070119 — Lab Sample ID: 480-155667-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	615		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: BETWEEN CARBONS 070119 — Lab Sample ID: 480-155667-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	24		1.0	0.46	ug/L	1		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

Job ID: 480-155667-1

Client Sample ID: EFFLUENT 070119

Lab Sample ID: 480-155667-1

Date Collected: 07/01/19 07:00
Date Received: 07/02/19 08:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/09/19 03:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/09/19 03:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/09/19 03:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/19 03:45	1
Toluene	ND		1.0	0.51	ug/L			07/09/19 03:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/19 03:45	1
Trichloroethene	ND		1.0	0.46	ug/L			07/09/19 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*07/09/19 03:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*07/09/19 03:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/19 03:45*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*07/09/19 03:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**615**		10.0	4.0	mg/L			07/05/19 07:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/03/19 10:25	1

Client Sample ID: BETWEEN CARBONS 070119

Lab Sample ID: 480-155667-2

Date Collected: 07/01/19 07:00
Date Received: 07/02/19 08:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/09/19 04:08	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.81	ug/L			07/09/19 04:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/09/19 04:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/09/19 04:08	1
Toluene	ND		1.0	0.51	ug/L			07/09/19 04:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/09/19 04:08	1
Trichloroethene	**24**		1.0	0.46	ug/L			07/09/19 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*07/09/19 04:08*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*07/09/19 04:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/09/19 04:08*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*07/09/19 04:08*	*1*

Surrogate Summary

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

Job ID: 480-155667-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-155667-1	EFFLUENT 070119	106	94	99	94
480-155667-2	BETWEEN CARBONS 070119	105	92	97	94
LCS 480-481192/5	Lab Control Sample	100	93	99	95
MB 480-481192/7	Method Blank	104	96	102	95

Surrogate Legend

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

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

Lab Sample ID: MB 480-481192/7
Matrix: Water
Analysis Batch: 481192

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/08/19 21:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/08/19 21:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/08/19 21:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/08/19 21:46	1
Toluene	ND		1.0	0.51	ug/L			07/08/19 21:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/08/19 21:46	1
Trichloroethene	ND		1.0	0.46	ug/L			07/08/19 21:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*07/08/19 21:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*07/08/19 21:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/08/19 21:46*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*07/08/19 21:46*	*1*

Lab Sample ID: LCS 480-481192/5
Matrix: Water
Analysis Batch: 481192

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	76 - 120
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	74 - 124
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122
Toluene	25.0	22.8		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127
Trichloroethene	25.0	23.8		ug/L		95	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

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

Lab Sample ID: MB 480-480758/1
Matrix: Water
Analysis Batch: 480758

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			07/03/19 10:25	1

Lab Sample ID: LCS 480-480758/2
Matrix: Water
Analysis Batch: 480758

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	252	243.6		mg/L		97	88 - 110

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

Job ID: 480-155667-1

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

Lab Sample ID: 480-155667-1 DU
Matrix: Water
Analysis Batch: 480758

Client Sample ID: EFFLUENT 070119
Prep Type: Total/NA

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-480881/1
Matrix: Water
Analysis Batch: 480881

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			07/05/19 07:51	1

Lab Sample ID: LCS 480-480881/2
Matrix: Water
Analysis Batch: 480881

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	481.0		mg/L		96	85 - 115		

Lab Sample ID: 480-155667-1 DU
Matrix: Water
Analysis Batch: 480881

Client Sample ID: EFFLUENT 070119
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	615			623.0		mg/L				1	10

QC Association Summary

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

Job ID: 480-155667-1

GC/MS VOA

Analysis Batch: 481192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	8260C	
480-155667-2	BETWEEN CARBONS 070119	Total/NA	Water	8260C	
MB 480-481192/7	Method Blank	Total/NA	Water	8260C	
LCS 480-481192/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 480758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	SM 2540D	
MB 480-480758/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-480758/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-155667-1 DU	EFFLUENT 070119	Total/NA	Water	SM 2540D	

Analysis Batch: 480881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155667-1	EFFLUENT 070119	Total/NA	Water	SM2540 C	
MB 480-480881/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-480881/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-155667-1 DU	EFFLUENT 070119	Total/NA	Water	SM2540 C	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-155667-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 070119
Lab Sample ID: 480-155667-1

Date Collected: 07/01/19 07:00
Matrix: Water
Date Received: 07/02/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	481192	07/09/19 03:45	AMM	TAL BUF
Total/NA	Analysis	SM 2540D		1	480758	07/03/19 10:25	RAF	TAL BUF
Total/NA	Analysis	SM2540 C		1	480881	07/05/19 07:51	RAF	TAL BUF

Client Sample ID: BETWEEN CARBONS 070119
Lab Sample ID: 480-155667-2

Date Collected: 07/01/19 07:00
Matrix: Water
Date Received: 07/02/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	481192	07/09/19 04:08	AMM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-155667-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-155667-1

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
5030C	Purge and Trap	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-155667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155667-1	EFFLUENT 070119	Water	07/01/19 07:00	07/02/19 08:00	
480-155667-2	BETWEEN CARBONS 070119	Water	07/01/19 07:00	07/02/19 08:00	

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: MARTIN Koennecke	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: melissa.deyo@testamericainc.com	COC No: 480-122339-10588.1
Company: O'Brien & Gere Inc of North America			Page: Page 1 of 1
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:		Job #:
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114		
Email: Yuri.Veliz@obg.com	WO #:		
Project Name: Former Accurate Die Cast	Project #: 48008584		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, M - Hexane, N - None, O - AsNaO2, P - Na2O4S

480-155667 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	Total Number of co	Special Instructions/Note:
Preservation Code:							N	N	A		
Effluent 070119	7-1-19	7:00	C	Water			1	1		2	
Between Carbons 070119	7-1-19	7:00	G	Water					3	3	
Effluent 070119	7-1-19	7:00	G	Water					3	3	

RL 7-1-19

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Martin Koennecke	Date/Time: 7-1-19 / 9:30	Company: OBG	Received by: RL 7/1/19	Date/Time: 7-1-19 0930	Company: Syr
Relinquished by: RL 7/1/19	Date/Time: 7-1-19, 19:00	Company: Syr	Received by: [illegible]	Date/Time: 7/2/19 0800	Company: TAL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: # 2.8

Ver: 01/16/2019

7/12/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-155667-1

Login Number: 155667

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-155862-1
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. David J Carnevale

Authorized for release by:
7/17/2019 12:53:12 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-155862-1
Project/Site: Former Accurate Die Cast

Glossary

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

Case Narrative

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

Job ID: 480-155862-1

Job ID: 480-155862-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-155862-1

Receipt
The sample was received on 7/9/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

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

Detection Summary

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

Job ID: 480-155862-1

Client Sample ID: EFFLUENT 070819

Lab Sample ID: 480-155862-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	650		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: O'Brien & Gere Inc of North America
Job ID: 480-155862-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 070819
Lab Sample ID: 480-155862-1
Date Collected: 07/08/19 06:45
Matrix: Water
Date Received: 07/09/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**650**		10.0	4.0	mg/L			07/10/19 07:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/10/19 08:15	1

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

Job ID: 480-155862-1

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

Lab Sample ID: MB 480-481424/1
Matrix: Water
Analysis Batch: 481424

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			07/10/19 08:15	1

Lab Sample ID: LCS 480-481424/2
Matrix: Water
Analysis Batch: 481424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	271	260.8		mg/L		96	88 - 110

Lab Sample ID: 480-155862-1 DU
Matrix: Water
Analysis Batch: 481424

Client Sample ID: EFFLUENT 070819
Prep Type: Total/NA

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-481403/1
Matrix: Water
Analysis Batch: 481403

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			07/10/19 07:49	1

Lab Sample ID: LCS 480-481403/2
Matrix: Water
Analysis Batch: 481403

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	491.0		mg/L		98	85 - 115

QC Association Summary

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

Job ID: 480-155862-1

General Chemistry

Analysis Batch: 481403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155862-1	EFFLUENT 070819	Total/NA	Water	SM2540 C	
MB 480-481403/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-481403/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 481424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-155862-1	EFFLUENT 070819	Total/NA	Water	SM 2540D	
MB 480-481424/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-481424/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-155862-1 DU	EFFLUENT 070819	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-155862-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 070819
Lab Sample ID: 480-155862-1
Date Collected: 07/08/19 06:45
Matrix: Water
Date Received: 07/09/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	481424	07/10/19 08:15	RAF	TAL BUF
Total/NA	Analysis	SM2540 C		1	481403	07/10/19 07:49	RAF	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-155862-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-155862-1

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

Sample Summary

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

Job ID: 480-155862-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-155862-1	EFFLUENT 070819	Water	07/08/19 06:45	07/09/19 08:00	

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

Chain of Custody Record

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Client Information	Sampler: MARTIN Koennecke	Lab PM: Deyo, Melissa L	Carrier Tracking No(s): Syracuse	COC No: 480-122370-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Requested	#225	Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, M - Hexane, N - None
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			480-155862 Chain of Custody
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 070819	7-8-19	6:45	C	Water			1	1	2	

7-8-19 AP

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Martin Koennecke	Date/Time: 7-8-19 / 1040	Company: OBG	Received by: [illegible]	Date/Time: 7-8-19 1040	Company: TASYR
Relinquished by: R. Cuglielli	Date/Time: 7-8-19, 19:00	Company: Syn	Received by: C. [illegible]	Date/Time: 7/9/19 0800	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.19

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-155862-1

Login Number: 155862

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-156206-1
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. David J Carnevale

Authorized for release by:
7/25/2019 2:48:27 PM
Julianna DuHart, Project Management Assistant I
julianna.duhart@testamericainc.com

Designee for

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

Definitions/Glossary

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

Job ID: 480-156206-1

Glossary

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

Case Narrative

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

Job ID: 480-156206-1

Job ID: 480-156206-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-156206-1

Receipt
The samples were received on 7/16/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° 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.

Detection Summary

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

Job ID: 480-156206-1

Client Sample ID: EFFLUENT 071519 — Lab Sample ID: 480-156206-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	626		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: EFFLUENT 071519 — Lab Sample ID: 480-156206-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFFLUENT 071519
Lab Sample ID: 480-156206-1
Date Collected: 07/15/19 07:20
Matrix: Water
Date Received: 07/16/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**626**		10.0	4.0	mg/L			07/17/19 12:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/18/19 12:47	1

Client Sample ID: EFFLUENT 071519
Lab Sample ID: 480-156206-2
Date Collected: 07/15/19 07:20
Matrix: Water
Date Received: 07/16/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 16:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 16:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 16:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 16:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 16:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 16:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 16:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 16:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 16:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 16:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 16:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 16:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 16:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 16:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 16:32	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 16:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 16:32	1
Acetone	ND		10	3.0	ug/L			07/17/19 16:32	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 16:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 16:32	1
Bromoform	ND		1.0	0.26	ug/L			07/17/19 16:32	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 16:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 16:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 16:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 16:32	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 16:32	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 16:32	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 16:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 16:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 16:32	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 16:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/17/19 16:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 16:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 16:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 16:32	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 16:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 16:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 16:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 16:32	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 16:32	1

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

Job ID: 480-156206-1

Client Sample ID: EFFLUENT 071519
Date Collected: 07/15/19 07:20
Date Received: 07/16/19 08:00

Lab Sample ID: 480-156206-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 16:32	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 16:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 16:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 16:32	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 16:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 16:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 16:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*07/17/19 16:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*07/17/19 16:32*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*07/17/19 16:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/17/19 16:32*	*1*

Surrogate Summary

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

Job ID: 480-156206-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-156206-2	EFFLUENT 071519	106	98	103	100
LCS 480-482389/5	Lab Control Sample	102	95	98	101
MB 480-482389/7	Method Blank	106	95	97	100

Surrogate Legend

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

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

Job ID: 480-156206-1

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

Lab Sample ID: MB 480-482389/7
Matrix: Water
Analysis Batch: 482389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 10:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 10:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 10:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 10:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 10:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 10:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 10:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 10:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 10:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 10:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 10:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 10:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 10:59	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 10:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 10:59	1
Acetone	ND		10	3.0	ug/L			07/17/19 10:59	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 10:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 10:59	1
Bromoform	ND		1.0	0.26	ug/L			07/17/19 10:59	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 10:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 10:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 10:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 10:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 10:59	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 10:59	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 10:59	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 10:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/17/19 10:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 10:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 10:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 10:59	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 10:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 10:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 10:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 10:59	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 10:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 10:59	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 10:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 10:59	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 10:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 10:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 10:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 10:59	1

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

Lab Sample ID: MB 480-482389/7
Matrix: Water
Analysis Batch: 482389

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		07/17/19 10:59	1
4-Bromofluorobenzene (Surr)	95		73 - 120		07/17/19 10:59	1
Dibromofluoromethane (Surr)	97		75 - 123		07/17/19 10:59	1
Toluene-d8 (Surr)	100		80 - 120		07/17/19 10:59	1

Lab Sample ID: LCS 480-482389/5
Matrix: Water
Analysis Batch: 482389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.7		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.8		ug/L		107	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.3		ug/L		97	61 - 148
1,1,2-Trichloroethane	25.0	26.6		ug/L		107	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	22.1		ug/L		88	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.2		ug/L		85	56 - 134
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Butanone (MEK)	125	142		ug/L		114	57 - 140
2-Hexanone	125	136		ug/L		109	65 - 127
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		107	71 - 125
Acetone	125	141		ug/L		113	56 - 142
Benzene	25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	25.0	25.1		ug/L		100	80 - 122
Bromoform	25.0	22.1		ug/L		89	61 - 132
Bromomethane	25.0	30.5		ug/L		122	55 - 144
Carbon disulfide	25.0	23.5		ug/L		94	59 - 134
Carbon tetrachloride	25.0	22.6		ug/L		91	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	26.1		ug/L		104	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
Chloromethane	25.0	25.4		ug/L		102	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	74 - 124
Cyclohexane	25.0	23.4		ug/L		94	59 - 135
Dibromochloromethane	25.0	22.6		ug/L		91	75 - 125
Dichlorodifluoromethane	25.0	26.0		ug/L		104	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	24.5		ug/L		98	77 - 122
Methyl acetate	50.0	52.9		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	23.0		ug/L		92	77 - 120
Methylcyclohexane	25.0	24.2		ug/L		97	68 - 134

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

Lab Sample ID: LCS 480-482389/5
Matrix: Water
Analysis Batch: 482389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	24.4		ug/L		97	80 - 120
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	25.4		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	29.3		ug/L		117	62 - 150
Vinyl chloride	25.0	26.1		ug/L		104	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 480-482668/1
Matrix: Water
Analysis Batch: 482668

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			07/18/19 12:47	1

Lab Sample ID: LCS 480-482668/2
Matrix: Water
Analysis Batch: 482668

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	276	269.2		mg/L		98	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-482456/1
Matrix: Water
Analysis Batch: 482456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			07/17/19 12:12	1

Lab Sample ID: LCS 480-482456/2
Matrix: Water
Analysis Batch: 482456

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	500.0		mg/L		100	85 - 115

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

Job ID: 480-156206-1

Method: SM2540 C - Total Dissolved Solids (Continued)

Lab Sample ID: 480-156206-1 DU
Matrix: Water
Analysis Batch: 482456

Client Sample ID: EFFLUENT 071519
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	626			623.0		mg/L				0.5	10

QC Association Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-156206-1
Project/Site: Former Accurate Die Cast

GC/MS VOA

Analysis Batch: 482389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-2	EFFLUENT 071519	Total/NA	Water	8260C	
MB 480-482389/7	Method Blank	Total/NA	Water	8260C	
LCS 480-482389/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 482456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-1	EFFLUENT 071519	Total/NA	Water	SM2540 C	
MB 480-482456/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-482456/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-156206-1 DU	EFFLUENT 071519	Total/NA	Water	SM2540 C	

Analysis Batch: 482668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156206-1	EFFLUENT 071519	Total/NA	Water	SM 2540D	
MB 480-482668/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-482668/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-156206-1

Client Sample ID: EFFLUENT 071519

Lab Sample ID: 480-156206-1

Date Collected: 07/15/19 07:20

Matrix: Water

Date Received: 07/16/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	482668	07/18/19 12:47	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	482456	07/17/19 12:12	CSS	TAL BUF

Client Sample ID: EFFLUENT 071519

Lab Sample ID: 480-156206-2

Date Collected: 07/15/19 07:20

Matrix: Water

Date Received: 07/16/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482389	07/17/19 16:32	KMN	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-156206-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-156206-1

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
5030C	Purge and Trap	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-156206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156206-1	EFFLUENT 071519	Water	07/15/19 07:20	07/16/19 08:00	
480-156206-2	EFFLUENT 071519	Water	07/15/19 07:20	07/16/19 08:00	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Syracuse #225

Client Information	Sampler: MARTIN Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122354-10587.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Requested		Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			Preservation Codes:
City: East Syracuse	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, H2SO4, SP Dodecahydrate, Acetone, ICAA, pH 4-5, Other (specify)
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

480-156206 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	Total Number	Special Instructions/Note:
Preservation Code:					X	X	N	N	A	X	
Effluent 071519	7-15-19	7:20	C	Water			1	1		2	
Effluent 071519	7-15-19	7:20	G	water					3	3	
Rec 7-15-19											

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Martin Koennecke	7-15-19 / 1040	OBG	Received by	7-15-19, 10:40	Syr
2	Relinquished by	7-15-19, 15:00	Syr	Received by	7/16/19 0800	TAS
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks	#1 3.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-156206-1

Login Number: 156206
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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	SYR
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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ANALYTICAL REPORT

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

Laboratory Job ID: 480-156584-1
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. David J Carnevale

Authorized for release by:
7/31/2019 3:42:11 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-156584-1
Project/Site: Former Accurate Die Cast

Glossary

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

Case Narrative

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

Job ID: 480-156584-1

Job ID: 480-156584-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-156584-1

Receipt
The sample was received on 7/23/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

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

Detection Summary

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

Job ID: 480-156584-1

Client Sample ID: effluent 072219

Lab Sample ID: 480-156584-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	630		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Job ID: 480-156584-1
Project/Site: Former Accurate Die Cast

Client Sample ID: effluent 072219
Lab Sample ID: 480-156584-1
Date Collected: 07/22/19 07:15
Matrix: Water
Date Received: 07/23/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**630**		10.0	4.0	mg/L			07/24/19 11:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/25/19 10:38	1

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

Job ID: 480-156584-1

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

Lab Sample ID: MB 480-483703/1
Matrix: Water
Analysis Batch: 483703

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			07/25/19 10:38	1

Lab Sample ID: LCS 480-483703/2
Matrix: Water
Analysis Batch: 483703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	274	269.2		mg/L		98	88 - 110

Lab Sample ID: 480-156584-1 DU
Matrix: Water
Analysis Batch: 483703

Client Sample ID: effluent 072219
Prep Type: Total/NA

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-483509/1
Matrix: Water
Analysis Batch: 483509

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			07/24/19 11:44	1

Lab Sample ID: LCS 480-483509/2
Matrix: Water
Analysis Batch: 483509

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	461.0		mg/L		92	85 - 115

QC Association Summary

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

Job ID: 480-156584-1

General Chemistry

Analysis Batch: 483509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156584-1	effluent 072219	Total/NA	Water	SM2540 C	
MB 480-483509/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-483509/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 483703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156584-1	effluent 072219	Total/NA	Water	SM 2540D	
MB 480-483703/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-483703/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-156584-1 DU	effluent 072219	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-156584-1

Client Sample ID: effluent 072219
Date Collected: 07/22/19 07:15
Date Received: 07/23/19 08:00

Lab Sample ID: 480-156584-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	483703	07/25/19 10:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	483509	07/24/19 11:44	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-156584-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-156584-1

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

Sample Summary

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

Job ID: 480-156584-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156584-1	effluent 072219	Water	07/22/19 07:15	07/23/19 08:00	

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: MARTIN Koewnecki	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122376-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America				Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N		
Effluent 072219	7-22-19	7:15	C	Water			1	1	2	

RE 7-22-19

480-156584 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Martin Koewnecki	7-22-19 9:15	OBG	REIGLIL	7-22-19 0915	Syr
REIGLIL	7-22-19 19:30	Syr	Cubellis	7/23/19 0800	TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-156584-1

Login Number: 156584

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-156914-1
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. David J Carnevale

Authorized for release by:
8/8/2019 12:04:27 PM
Julianna DuHart, Project Management Assistant I
julianna.duhart@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-156914-1

Glossary

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

Case Narrative

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

Job ID: 480-156914-1

Job ID: 480-156914-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-156914-1

Receipt
The sample was received on 7/30/2019 8:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

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

Detection Summary

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

Job ID: 480-156914-1

Client Sample ID: EFFLUENT 072919

Lab Sample ID: 480-156914-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	587		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Job ID: 480-156914-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 072919
Lab Sample ID: 480-156914-1
Date Collected: 07/29/19 07:00
Matrix: Water
Date Received: 07/30/19 08:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**587**		10.0	4.0	mg/L			07/31/19 09:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			07/31/19 13:46	1

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

Lab Sample ID: MB 480-484727/1
Matrix: Water
Analysis Batch: 484727

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			07/31/19 13:46	1

Lab Sample ID: LCS 480-484727/2
Matrix: Water
Analysis Batch: 484727

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			279	271.6		mg/L		97	88 - 110		

Lab Sample ID: 480-156914-1 DU
Matrix: Water
Analysis Batch: 484727

Client Sample ID: EFFLUENT 072919
Prep Type: Total/NA

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-484651/1
Matrix: Water
Analysis Batch: 484651

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			07/31/19 09:09	1

Lab Sample ID: LCS 480-484651/2
Matrix: Water
Analysis Batch: 484651

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

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

Lab Sample ID: 480-156914-1 DU
Matrix: Water
Analysis Batch: 484651

Client Sample ID: EFFLUENT 072919
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	587			592.0		mg/L				NC	10

QC Association Summary

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

Job ID: 480-156914-1

General Chemistry

Analysis Batch: 484651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156914-1	EFFLUENT 072919	Total/NA	Water	SM2540 C	
MB 480-484651/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-484651/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-156914-1 DU	EFFLUENT 072919	Total/NA	Water	SM2540 C	

Analysis Batch: 484727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156914-1	EFFLUENT 072919	Total/NA	Water	SM 2540D	
MB 480-484727/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-484727/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-156914-1 DU	EFFLUENT 072919	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-156914-1

Client Sample ID: EFFLUENT 072919

Date Collected: 07/29/19 07:00
Date Received: 07/30/19 08:15

Lab Sample ID: 480-156914-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	484727	07/31/19 13:46	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	484651	07/31/19 09:09	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-156914-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-156914-1

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

Sample Summary

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

Job ID: 480-156914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156914-1	EFFLUENT 072919	Water	07/29/19 07:00	07/30/19 08:15	

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

Chain of Custody Record

480-156914 Chain of Custody

Environment Testing TestAmerica

Client Information	Sampler: MARTIN Koenecke	Lab PM: Schove, John R	375-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc	Page 1 of 1
Company: O'Brien & Gere Inc of North America		#225	Job #:

Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	Analysis Requested
City: East Syracuse	TAT Requested (days):	
State, Zip: NY, 13221		
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114	
Email: Yuri.Veliz@obg.com	WO #:	
Project Name: Former Accurate Die Cast	Project #: 48008584	
Site:	SSOW#:	

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 072919	7-29-19	7:00	C	Water			1	1	2	
			A/P							
			7-29-19							

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Martin Koenecke	Date/Time: 7-29-19 / 11:15	Company: OBG	Received by:	Date/Time: 7-29-19 / 11:15	Company: FIASYR
Relinquished by: RELINQUISHED	Date/Time: 7-29-19, 19:00	Company: Syr	Received by:	Date/Time: 7/30/19 0815	Company: TAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.4

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-156914-1

Login Number: 156914
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 480-157359-1
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. David J Carnevale

Authorized for release by:
8/15/2019 7:06:14 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Client: O'Brien & Gere Inc of North America
Job ID: 480-157359-1
Project/Site: Former Accurate Die Cast

Glossary

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

Job ID: 480-157359-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-157359-1

Receipt
The samples were received on 8/8/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

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

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

Detection Summary

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

Job ID: 480-157359-1

Client Sample ID: EFFLUENT 080719 — Lab Sample ID: 480-157359-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	613		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: BETWEEN CARBONS 080719 — Lab Sample ID: 480-157359-2

No Detections.

Client Sample ID: EFFLUENT 080719 — Lab Sample ID: 480-157359-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFFLUENT 080719

Lab Sample ID: 480-157359-1

Date Collected: 08/07/19 07:20

Matrix: Water

Date Received: 08/08/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**613**		10.0	4.0	mg/L			08/09/19 15:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			08/13/19 14:14	1

Client Sample ID: BETWEEN CARBONS 080719

Lab Sample ID: 480-157359-2

Date Collected: 08/07/19 07:20

Matrix: Water

Date Received: 08/08/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/12/19 20:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/12/19 20:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/12/19 20:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/12/19 20:37	1
Toluene	ND		1.0	0.51	ug/L			08/12/19 20:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/12/19 20:37	1
Trichloroethene	ND		1.0	0.46	ug/L			08/12/19 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/12/19 20:37*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/12/19 20:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/12/19 20:37*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/12/19 20:37*	*1*

Client Sample ID: EFFLUENT 080719

Lab Sample ID: 480-157359-3

Date Collected: 08/07/19 07:20

Matrix: Water

Date Received: 08/08/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/12/19 21:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/12/19 21:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/12/19 21:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/12/19 21:00	1
Toluene	ND		1.0	0.51	ug/L			08/12/19 21:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/12/19 21:00	1
Trichloroethene	ND		1.0	0.46	ug/L			08/12/19 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/12/19 21:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/12/19 21:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/12/19 21:00*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*08/12/19 21:00*	*1*

Surrogate Summary

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

Job ID: 480-157359-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-157359-2	BETWEEN CARBONS 080719	101	92	96	100
480-157359-3	EFFLUENT 080719	109	96	97	108
LCS 480-486461/5	Lab Control Sample	102	99	98	101
MB 480-486461/7	Method Blank	102	96	98	102

Surrogate Legend

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

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

Lab Sample ID: MB 480-486461/7
Matrix: Water
Analysis Batch: 486461

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/12/19 13:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/12/19 13:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/12/19 13:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/12/19 13:35	1
Toluene	ND		1.0	0.51	ug/L			08/12/19 13:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/12/19 13:35	1
Trichloroethene	ND		1.0	0.46	ug/L			08/12/19 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/12/19 13:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*08/12/19 13:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/12/19 13:35*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/12/19 13:35*	*1*

Lab Sample ID: LCS 480-486461/5
Matrix: Water
Analysis Batch: 486461

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2,2-Tetrachloroethane			25.0	22.8		ug/L		91	76 - 120		
cis-1,2-Dichloroethene			25.0	23.9		ug/L		95	74 - 124		
Methylene Chloride			25.0	23.6		ug/L		94	75 - 124		
Tetrachloroethene			25.0	24.0		ug/L		96	74 - 122		
Toluene			25.0	24.2		ug/L		97	80 - 122		
trans-1,2-Dichloroethene			25.0	25.5		ug/L		102	73 - 127		
Trichloroethene			25.0	25.0		ug/L		100	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: MB 480-486772/1
Matrix: Water
Analysis Batch: 486772

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/13/19 14:14	1

Lab Sample ID: LCS 480-486772/2
Matrix: Water
Analysis Batch: 486772

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			251	237.6		mg/L		95	88 - 110		

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

Job ID: 480-157359-1

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-486305/1
Matrix: Water
Analysis Batch: 486305

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/09/19 15:10	1

Lab Sample ID: LCS 480-486305/2
Matrix: Water
Analysis Batch: 486305

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	478.0		mg/L		96	85 - 115

QC Association Summary

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

Job ID: 480-157359-1

GC/MS VOA

Analysis Batch: 486461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-2	BETWEEN CARBONS 080719	Total/NA	Water	8260C	
480-157359-3	EFFLUENT 080719	Total/NA	Water	8260C	
MB 480-486461/7	Method Blank	Total/NA	Water	8260C	
LCS 480-486461/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 486305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-1	EFFLUENT 080719	Total/NA	Water	SM2540 C	
MB 480-486305/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-486305/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 486772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157359-1	EFFLUENT 080719	Total/NA	Water	SM 2540D	
MB 480-486772/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-486772/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-157359-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 080719
Lab Sample ID: 480-157359-1
Date Collected: 08/07/19 07:20
Matrix: Water
Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	486772	08/13/19 14:14	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	486305	08/09/19 15:10	BBB	TAL BUF

Client Sample ID: BETWEEN CARBONS 080719
Lab Sample ID: 480-157359-2
Date Collected: 08/07/19 07:20
Matrix: Water
Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	486461	08/12/19 20:37	OMI	TAL BUF

Client Sample ID: EFFLUENT 080719
Lab Sample ID: 480-157359-3
Date Collected: 08/07/19 07:20
Matrix: Water
Date Received: 08/08/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	486461	08/12/19 21:00	OMI	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-157359-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-157359-1

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
5030C	Purge and Trap	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-157359-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157359-1	EFFLUENT 080719	Water	08/07/19 07:20	08/08/19 08:00	
480-157359-2	BETWEEN CARBONS 080719	Water	08/07/19 07:20	08/08/19 08:00	
480-157359-3	EFFLUENT 080719	Water	08/07/19 07:20	08/08/19 08:00	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: MARTIN Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122341-10588.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America				Job #:

Address: 333 West Washington St. PO BOX 4873	Due Date Requested:	Analysis Requested	Preservation Codes:
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114		
Email: Yuri.Veliz@obg.com	WO #:		
Project Name: Former Accurate Die Cast	Project #: 48008584		
Site:	SSOW#:		

480-157359 Chain of Custody

J - DI Water V - MCAA
K - EDTA W - pH 4-5
L - EDA Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
Effluent 080719	8-7-19	7:20	C	Water			1	1		2	
Between Carbons 080719	8-7-19	7:20	G	Water					3	3	
Effluent 080719	8-7-19	7:20	G	water					3	3	
RE 8-7-19											

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Martin Koennecke	Date/Time: 8-7-19 9:50	Company: OBG	Received by: [signature] 8-7-19	Date/Time: 9:50	Company
Relinquished by: RELINQUISHED	Date/Time: 8-7-19, 19:00	Company: Eyn	Received by: [signature]	Date/Time: 8/8/19 0800	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-157359-1

Login Number: 157359

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-157552-1
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. David J Carnevale

Authorized for release by:
8/20/2019 11:34:44 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-157552-1
Project/Site: Former Accurate Die Cast

Glossary

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

Case Narrative

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

Job ID: 480-157552-1

Job ID: 480-157552-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-157552-1

Receipt
The sample was received on 8/13/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

Detection Summary

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

Job ID: 480-157552-1

Client Sample ID: EFFLUENT 081219

Lab Sample ID: 480-157552-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	666		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: O'Brien & Gere Inc of North America
Job ID: 480-157552-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 081219
Lab Sample ID: 480-157552-1
Date Collected: 08/12/19 07:15
Matrix: Water
Date Received: 08/13/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**666**		10.0	4.0	mg/L			08/14/19 10:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			08/14/19 13:22	1

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

Job ID: 480-157552-1

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

Lab Sample ID: MB 480-487014/1
Matrix: Water
Analysis Batch: 487014

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/14/19 13:22	1

Lab Sample ID: LCS 480-487014/2
Matrix: Water
Analysis Batch: 487014

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	255	230.4		mg/L		90	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-486955/1
Matrix: Water
Analysis Batch: 486955

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/14/19 10:39	1

Lab Sample ID: LCS 480-486955/2
Matrix: Water
Analysis Batch: 486955

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	450.0		mg/L		90	85 - 115

QC Association Summary

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

Job ID: 480-157552-1

General Chemistry

Analysis Batch: 486955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157552-1	EFFLUENT 081219	Total/NA	Water	SM2540 C	
MB 480-486955/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-486955/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 487014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157552-1	EFFLUENT 081219	Total/NA	Water	SM 2540D	
MB 480-487014/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-487014/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-157552-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 081219
Lab Sample ID: 480-157552-1
Date Collected: 08/12/19 07:15
Matrix: Water
Date Received: 08/13/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	487014	08/14/19 13:22	BBB	TAL BUF
Total/NA	Analysis	SM2540 C		1	486955	08/14/19 10:39	BBB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-157552-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Method Summary

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

Job ID: 480-157552-1

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

Sample Summary

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

Job ID: 480-157552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157552-1	EFFLUENT 081219	Water	08/12/19 07:15	08/13/19 08:00	

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

Chain of Custody Record

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480-157552 Chain of Custody

Client Information	Sampler: Martin Koennecke	Lab PM: Schove, John R	
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com	
Company: O'Brien & Gere Inc of North America		Analysis	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:		
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114		
Email: Yuri.Veliz@obg.com	WO #:		
Project Name: Former Accurate Die Cast	Project #: 48008584		
Site:	SSOW#:		

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 081219	8-12-19	7:15	C	Water			1	1	2	
Re- 8-13-19										

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Martin Koennecke	8-12-19 / 9:40	OBG	8-12-19, RELINQUISHED	8/13/19 9:40	Eurofins
2	RELINQUISHED	8-13-19, 19:00	Eurofins		8/13/19 8:00	TAB
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 3.2 TK / ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-157552-1

Login Number: 157552

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-157871-1
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. David J Carnevale

Authorized for release by:
8/28/2019 11:06:53 AM
Julianna DuHart, Project Management Assistant I
julianna.duhart@testamericainc.com

Designee for

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

Definitions/Glossary

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

Job ID: 480-157871-1

Glossary

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

Job ID: 480-157871-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-157871-1

Receipt
The samples were received on 8/20/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° 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.

Detection Summary

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

Job ID: 480-157871-1

Client Sample ID: EFFLUENT 081919 — Lab Sample ID: 480-157871-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	5.2		4.0	4.0	mg/L	1		SM 2540D	Total/NA
Total Dissolved Solids	656		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: EFFLUENT 081919 — Lab Sample ID: 480-157871-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: EFFLUENT 081919
Lab Sample ID: 480-157871-1
Date Collected: 08/19/19 07:15
Matrix: Water
Date Received: 08/20/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**656**		10.0	4.0	mg/L			08/21/19 08:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**5.2**		4.0	4.0	mg/L			08/21/19 14:25	1

Client Sample ID: EFFLUENT 081919
Lab Sample ID: 480-157871-2
Date Collected: 08/19/19 07:15
Matrix: Water
Date Received: 08/20/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/22/19 12:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/22/19 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/22/19 12:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/22/19 12:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/22/19 12:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/22/19 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/22/19 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/22/19 12:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/22/19 12:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/22/19 12:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/22/19 12:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/22/19 12:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/22/19 12:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/22/19 12:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/22/19 12:07	1
2-Hexanone	ND		5.0	1.2	ug/L			08/22/19 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/22/19 12:07	1
Acetone	ND		10	3.0	ug/L			08/22/19 12:07	1
Benzene	ND		1.0	0.41	ug/L			08/22/19 12:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/22/19 12:07	1
Bromoform	ND		1.0	0.26	ug/L			08/22/19 12:07	1
Bromomethane	ND		1.0	0.69	ug/L			08/22/19 12:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/22/19 12:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/22/19 12:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/22/19 12:07	1
Chloroethane	ND		1.0	0.32	ug/L			08/22/19 12:07	1
Chloroform	ND		1.0	0.34	ug/L			08/22/19 12:07	1
Chloromethane	ND		1.0	0.35	ug/L			08/22/19 12:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/22/19 12:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/22/19 12:07	1
Cyclohexane	ND		1.0	0.18	ug/L			08/22/19 12:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/22/19 12:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/22/19 12:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/22/19 12:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/22/19 12:07	1
Methyl acetate	ND		2.5	1.3	ug/L			08/22/19 12:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/22/19 12:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/22/19 12:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/22/19 12:07	1
Styrene	ND		1.0	0.73	ug/L			08/22/19 12:07	1

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

Job ID: 480-157871-1

Client Sample ID: EFFLUENT 081919
Date Collected: 08/19/19 07:15
Date Received: 08/20/19 08:00

Lab Sample ID: 480-157871-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			08/22/19 12:07	1
Toluene	ND		1.0	0.51	ug/L			08/22/19 12:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/22/19 12:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/22/19 12:07	1
Trichloroethene	ND		1.0	0.46	ug/L			08/22/19 12:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/22/19 12:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/22/19 12:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/22/19 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/22/19 12:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/22/19 12:07*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/22/19 12:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/22/19 12:07*	*1*

Surrogate Summary

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

Job ID: 480-157871-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-157871-2	EFFLUENT 081919	106	100	103	99
LCS 480-488279/5	Lab Control Sample	103	97	106	97
MB 480-488279/7	Method Blank	109	100	106	99

Surrogate Legend

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

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

Job ID: 480-157871-1

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

Lab Sample ID: MB 480-488279/7
Matrix: Water
Analysis Batch: 488279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/22/19 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/22/19 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/22/19 11:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/22/19 11:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/22/19 11:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/22/19 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/22/19 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/22/19 11:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/22/19 11:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/22/19 11:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/22/19 11:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/22/19 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/22/19 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/22/19 11:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/22/19 11:06	1
2-Hexanone	ND		5.0	1.2	ug/L			08/22/19 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/22/19 11:06	1
Acetone	ND		10	3.0	ug/L			08/22/19 11:06	1
Benzene	ND		1.0	0.41	ug/L			08/22/19 11:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/22/19 11:06	1
Bromoform	ND		1.0	0.26	ug/L			08/22/19 11:06	1
Bromomethane	ND		1.0	0.69	ug/L			08/22/19 11:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/22/19 11:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/22/19 11:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/22/19 11:06	1
Chloroethane	ND		1.0	0.32	ug/L			08/22/19 11:06	1
Chloroform	ND		1.0	0.34	ug/L			08/22/19 11:06	1
Chloromethane	ND		1.0	0.35	ug/L			08/22/19 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/22/19 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/22/19 11:06	1
Cyclohexane	ND		1.0	0.18	ug/L			08/22/19 11:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/22/19 11:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/22/19 11:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/22/19 11:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/22/19 11:06	1
Methyl acetate	ND		2.5	1.3	ug/L			08/22/19 11:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/22/19 11:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/22/19 11:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/22/19 11:06	1
Styrene	ND		1.0	0.73	ug/L			08/22/19 11:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/22/19 11:06	1
Toluene	ND		1.0	0.51	ug/L			08/22/19 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/22/19 11:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/22/19 11:06	1
Trichloroethene	ND		1.0	0.46	ug/L			08/22/19 11:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/22/19 11:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/22/19 11:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/22/19 11:06	1

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

Lab Sample ID: MB 480-488279/7
Matrix: Water
Analysis Batch: 488279

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		08/22/19 11:06	1
4-Bromofluorobenzene (Surr)	100		73 - 120		08/22/19 11:06	1
Dibromofluoromethane (Surr)	106		75 - 123		08/22/19 11:06	1
Toluene-d8 (Surr)	99		80 - 120		08/22/19 11:06	1

Lab Sample ID: LCS 480-488279/5
Matrix: Water
Analysis Batch: 488279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.6		ug/L		114	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.0		ug/L		116	61 - 148
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	27.8		ug/L		111	66 - 127
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	56 - 134
1,2-Dibromoethane	25.0	26.4		ug/L		105	77 - 120
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	26.6		ug/L		106	75 - 120
1,2-Dichloropropane	25.0	27.5		ug/L		110	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		101	80 - 120
2-Butanone (MEK)	125	144		ug/L		115	57 - 140
2-Hexanone	125	139		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		110	71 - 125
Acetone	125	133		ug/L		107	56 - 142
Benzene	25.0	26.7		ug/L		107	71 - 124
Bromodichloromethane	25.0	27.7		ug/L		111	80 - 122
Bromoform	25.0	26.7		ug/L		107	61 - 132
Bromomethane	25.0	25.6		ug/L		102	55 - 144
Carbon disulfide	25.0	29.0		ug/L		116	59 - 134
Carbon tetrachloride	25.0	28.0		ug/L		112	72 - 134
Chlorobenzene	25.0	25.4		ug/L		102	80 - 120
Chloroethane	25.0	25.9		ug/L		104	69 - 136
Chloroform	25.0	25.4		ug/L		101	73 - 127
Chloromethane	25.0	28.7		ug/L		115	68 - 124
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124
Cyclohexane	25.0	28.8		ug/L		115	59 - 135
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Dichlorodifluoromethane	25.0	31.0		ug/L		124	59 - 135
Ethylbenzene	25.0	25.9		ug/L		103	77 - 123
Isopropylbenzene	25.0	27.0		ug/L		108	77 - 122
Methyl acetate	50.0	56.9		ug/L		114	74 - 133
Methyl tert-butyl ether	25.0	26.9		ug/L		107	77 - 120
Methylcyclohexane	25.0	28.8		ug/L		115	68 - 134

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

Lab Sample ID: LCS 480-488279/5
Matrix: Water
Analysis Batch: 488279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	25.3		ug/L		101	75 - 124
Styrene	25.0	26.9		ug/L		108	80 - 120
Tetrachloroethene	25.0	26.4		ug/L		106	74 - 122
Toluene	25.0	26.5		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	26.1		ug/L		105	62 - 150
Vinyl chloride	25.0	27.4		ug/L		109	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: MB 480-488165/1
Matrix: Water
Analysis Batch: 488165

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/21/19 14:25	1

Lab Sample ID: LCS 480-488165/2
Matrix: Water
Analysis Batch: 488165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	256	229.2		mg/L		89	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-488048/1
Matrix: Water
Analysis Batch: 488048

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/21/19 08:30	1

Lab Sample ID: LCS 480-488048/2
Matrix: Water
Analysis Batch: 488048

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	528.0		mg/L		106	85 - 115

QC Association Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-157871-1
Project/Site: Former Accurate Die Cast

GC/MS VOA

Analysis Batch: 488279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-2	EFFLUENT 081919	Total/NA	Water	8260C	
MB 480-488279/7	Method Blank	Total/NA	Water	8260C	
LCS 480-488279/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 488048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-1	EFFLUENT 081919	Total/NA	Water	SM2540 C	
MB 480-488048/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-488048/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 488165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-157871-1	EFFLUENT 081919	Total/NA	Water	SM 2540D	
MB 480-488165/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-488165/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-157871-1

Client Sample ID: EFFLUENT 081919

Lab Sample ID: 480-157871-1

Date Collected: 08/19/19 07:15

Matrix: Water

Date Received: 08/20/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	488165	08/21/19 14:25	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	488048	08/21/19 08:30	ZFM	TAL BUF

Client Sample ID: EFFLUENT 081919

Lab Sample ID: 480-157871-2

Date Collected: 08/19/19 07:15

Matrix: Water

Date Received: 08/20/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	488279	08/22/19 12:07	KMN	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-157871-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-157871-1

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
5030C	Purge and Trap	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-157871-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-157871-1	EFFLUENT 081919	Water	08/19/19 07:15	08/20/19 08:00	
480-157871-2	EFFLUENT 081919	Water	08/19/19 07:15	08/20/19 08:00	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Syracuse #225

Client Information	Sampler: MARTIN Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122355-10587.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Requested		Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			480-157871 Chain of Custody
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Preservation Codes: H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A	X	
Effluent 081919	8-19-19	7:15	C	Water			1	1		2	
Effluent 081919	8-19-19	7:15	G	water					3	3	

RE 8-19-19

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by: Martin Koennecke	Date/Time: 8-19-19 / 10:55	Company: OBG	Received by: RE Tiglich		Date/Time: 8-19-19, 10:55	Company: Syr
Relinquished by: RE Tiglich	Date/Time: 8-19-19, 19:00	Company: Syr	Received by: CWalther		Date/Time: 8/20/19 0800	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:		Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-157871-1

Login Number: 157871
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-158173-1
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. David J Carnevale

Authorized for release by:
9/4/2019 11:40:27 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-158173-1
Project/Site: Former Accurate Die Cast

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

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

Job ID: 480-158173-1

Job ID: 480-158173-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158173-1

Receipt
The sample was received on 8/27/2019 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

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

Detection Summary

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

Job ID: 480-158173-1

Client Sample ID: EFFLUENT 082619

Lab Sample ID: 480-158173-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	633	B	10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: O'Brien & Gere Inc of North America
Job ID: 480-158173-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 082619
Lab Sample ID: 480-158173-1
Date Collected: 08/26/19 07:10
Matrix: Water
Date Received: 08/27/19 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**633**	**B**	10.0	4.0	mg/L			08/28/19 09:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			08/30/19 11:52	1

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

Job ID: 480-158173-1

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

Lab Sample ID: MB 480-489659/1
Matrix: Water
Analysis Batch: 489659

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			08/30/19 11:52	1

Lab Sample ID: LCS 480-489659/2
Matrix: Water
Analysis Batch: 489659

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	250	244.4		mg/L		98	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-489206/1
Matrix: Water
Analysis Batch: 489206

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.00	J	10.0	4.0	mg/L			08/28/19 09:29	1

Lab Sample ID: LCS 480-489206/2
Matrix: Water
Analysis Batch: 489206

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

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

Lab Sample ID: 480-158173-1 DU
Matrix: Water
Analysis Batch: 489206

Client Sample ID: EFFLUENT 082619
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	633	B	648.0		mg/L		2	10

QC Association Summary

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

Job ID: 480-158173-1

General Chemistry

Analysis Batch: 489206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158173-1	EFFLUENT 082619	Total/NA	Water	SM2540 C	
MB 480-489206/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-489206/2	Lab Control Sample	Total/NA	Water	SM2540 C	
480-158173-1 DU	EFFLUENT 082619	Total/NA	Water	SM2540 C	

Analysis Batch: 489659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158173-1	EFFLUENT 082619	Total/NA	Water	SM 2540D	
MB 480-489659/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-489659/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-158173-1

Client Sample ID: EFFLUENT 082619
Date Collected: 08/26/19 07:10
Date Received: 08/27/19 10:30

Lab Sample ID: 480-158173-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	489659	08/30/19 11:52	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	489206	08/28/19 09:29	ZFM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-158173-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-158173-1

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

Sample Summary

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

Job ID: 480-158173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158173-1	EFFLUENT 082619	Water	08/26/19 07:10	08/27/19 10:30	

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: Martin Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122378-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America				Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 082619	8-26-19	7:10	C	Water			1	1	2	

RE 8-26-19

480-158173 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Martin Koennecke	8-26-19 / 11:15	OBG	RECEIVED	8-26-19 / 11:11	FedEx
2	RECEIVED	8-26-19, 19:00	FedEx		8-27-19 10:30 19:00	TAB
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 ICE #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-158173-1

Login Number: 158173

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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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ANALYTICAL REPORT

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

Laboratory Job ID: 480-158667-1
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. David J Carnevale

Authorized for release by:
9/17/2019 12:56:35 PM
Julianna DuHart, Project Management Assistant I
julianna.duhart@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-158667-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Metals

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

Glossary

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

Job ID: 480-158667-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158667-1

Receipt
The samples were received on 9/5/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT GRAB 090419 (480-158667-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The Laboratory Control Sample (LCS) was outside laboratory/project quality control limits for the following analyte: 1,1,2,2-Tetrachloroethane. All other spike recoveries and quality control indicators, including sample specific surrogate recoveries, were acceptable. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: BETWEEN CARBONS 090419 (480-158667-2), EFFLUENT GRAB 090419 (480-158667-4) and INFLUENT GRAB 090419 (480-158667-5).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT GRAB 090419 (480-158667-5), (480-158667-B-5 MS) and (480-158667-B-5 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.

Detection Summary

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

Job ID: 480-158667-1

Client Sample ID: EFFLUENT 090419 — Lab Sample ID: 480-158667-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0041	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Total Dissolved Solids	710		10.0	4.0	mg/L	1		SM2540 C	Total/NA

Client Sample ID: BETWEEN CARBONS 090419 — Lab Sample ID: 480-158667-2

No Detections.

Client Sample ID: INFLUENT 090419 — Lab Sample ID: 480-158667-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0086	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: EFFLUENT GRAB 090419 — Lab Sample ID: 480-158667-4

No Detections.

Client Sample ID: INFLUENT GRAB 090419 — Lab Sample ID: 480-158667-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	380		8.0	3.7	ug/L	8		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFFLUENT 090419
Lab Sample ID: 480-158667-1
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0041**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**710**		10.0	4.0	mg/L			09/09/19 10:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/10/19 08:32	1

Client Sample ID: BETWEEN CARBONS 090419
Lab Sample ID: 480-158667-2
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	1.0	0.21	ug/L			09/12/19 22:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/12/19 22:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/19 22:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/19 22:41	1
Toluene	ND		1.0	0.51	ug/L			09/12/19 22:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/19 22:41	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/19 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*09/12/19 22:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/12/19 22:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/12/19 22:41*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*09/12/19 22:41*	*1*

Client Sample ID: INFLUENT 090419
Lab Sample ID: 480-158667-3
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.0086**	**J**	0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 19:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:43	1

Client Sample ID: EFFLUENT GRAB 090419
Lab Sample ID: 480-158667-4
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	1.0	0.21	ug/L			09/12/19 23:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/12/19 23:05	1

Client Sample ID: EFFLUENT GRAB 090419

Lab Sample ID: 480-158667-4

Date Collected: 09/04/19 07:20

Matrix: Water

Date Received: 09/05/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/19 23:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/19 23:05	1
Toluene	ND		1.0	0.51	ug/L			09/12/19 23:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/19 23:05	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/19 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/12/19 23:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*09/12/19 23:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/12/19 23:05*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*09/12/19 23:05*	*1*

Client Sample ID: INFLUENT GRAB 090419

Lab Sample ID: 480-158667-5

Date Collected: 09/04/19 07:20

Matrix: Water

Date Received: 09/05/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			09/15/19 02:08	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			09/15/19 02:08	8
Methylene Chloride	ND		8.0	3.5	ug/L			09/15/19 02:08	8
Tetrachloroethene	ND		8.0	2.9	ug/L			09/15/19 02:08	8
Toluene	ND		8.0	4.1	ug/L			09/15/19 02:08	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			09/15/19 02:08	8
Trichloroethene	**380**		8.0	3.7	ug/L			09/15/19 02:08	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*09/15/19 02:08*	*8*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/15/19 02:08*	*8*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/15/19 02:08*	*8*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/15/19 02:08*	*8*

Surrogate Summary

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

Job ID: 480-158667-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-158667-2	BETWEEN CARBONS 090419	94	100	102	104
480-158667-4	EFFLUENT GRAB 090419	99	108	97	106
480-158667-5	INFLUENT GRAB 090419	99	102	101	99
480-158667-5 MS	INFLUENT GRAB 090419	105	108	104	103
480-158667-5 MSD	INFLUENT GRAB 090419	100	105	102	100
LCS 480-491772/5	Lab Control Sample	97	90	82	103
LCS 480-492135/5	Lab Control Sample	103	106	103	105
MB 480-491772/7	Method Blank	101	98	107	108
MB 480-492135/7	Method Blank	102	108	102	101

Surrogate Legend

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

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

Lab Sample ID: MB 480-491772/7
Matrix: Water
Analysis Batch: 491772

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/12/19 22:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/12/19 22:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/19 22:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/19 22:16	1
Toluene	ND		1.0	0.51	ug/L			09/12/19 22:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/19 22:16	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/19 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/12/19 22:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*09/12/19 22:16*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/12/19 22:16*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*09/12/19 22:16*	*1*

Lab Sample ID: LCS 480-491772/5
Matrix: Water
Analysis Batch: 491772

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	18.6	*	ug/L		75	76 - 120
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
Methylene Chloride	25.0	21.5		ug/L		86	75 - 124
Tetrachloroethene	25.0	25.0		ug/L		100	74 - 122
Toluene	25.0	21.7		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	73 - 127
Trichloroethene	25.0	24.8		ug/L		99	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*82*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: MB 480-492135/7
Matrix: Water
Analysis Batch: 492135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/19 01:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/19 01:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/19 01:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/19 01:19	1
Toluene	ND		1.0	0.51	ug/L			09/15/19 01:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/19 01:19	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/19 01:19	1

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

Lab Sample ID: MB 480-492135/7
Matrix: Water
Analysis Batch: 492135

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/15/19 01:19	1
4-Bromofluorobenzene (Surr)	108		73 - 120		09/15/19 01:19	1
Toluene-d8 (Surr)	102		80 - 120		09/15/19 01:19	1
Dibromofluoromethane (Surr)	101		75 - 123		09/15/19 01:19	1

Lab Sample ID: LCS 480-492135/5
Matrix: Water
Analysis Batch: 492135

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
Methylene Chloride	25.0	24.1		ug/L		96	75 - 124
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
Trichloroethene	25.0	25.3		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: 480-158667-5 MS
Matrix: Water
Analysis Batch: 492135

Client Sample ID: INFLUENT GRAB 090419
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		200	210		ug/L		105	76 - 120
cis-1,2-Dichloroethene	ND		200	217		ug/L		108	74 - 124
Methylene Chloride	ND		200	196		ug/L		98	75 - 124
Tetrachloroethene	ND		200	215		ug/L		108	74 - 122
Toluene	ND		200	211		ug/L		105	80 - 122
trans-1,2-Dichloroethene	ND		200	207		ug/L		104	73 - 127
Trichloroethene	380		200	563		ug/L		94	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

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

Lab Sample ID: 480-158667-5 MSD
Matrix: Water
Analysis Batch: 492135

Client Sample ID: INFLUENT GRAB 090419
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		200	197		ug/L		98	76 - 120	7	15
cis-1,2-Dichloroethene	ND		200	204		ug/L		102	74 - 124	6	15
Methylene Chloride	ND		200	188		ug/L		94	75 - 124	4	15
Tetrachloroethene	ND		200	205		ug/L		103	74 - 122	5	20
Toluene	ND		200	203		ug/L		101	80 - 122	4	15
trans-1,2-Dichloroethene	ND		200	195		ug/L		97	73 - 127	6	20
Trichloroethene	380		200	534		ug/L		79	74 - 123	5	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-490691/1-A
Matrix: Water
Analysis Batch: 491322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		09/09/19 09:35	09/10/19 18:53	1

Lab Sample ID: LCS 480-490691/2-A
Matrix: Water
Analysis Batch: 491322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.202		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-491925/1-A
Matrix: Water
Analysis Batch: 492040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/13/19 12:00	09/13/19 16:13	1

Lab Sample ID: LCS 480-491925/2-A
Matrix: Water
Analysis Batch: 492040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00682		mg/L		102	80 - 120

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

Job ID: 480-158667-1

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

Lab Sample ID: MB 480-491105/1
Matrix: Water
Analysis Batch: 491105

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			09/10/19 08:32	1

Lab Sample ID: LCS 480-491105/2
Matrix: Water
Analysis Batch: 491105

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	254	248.4		mg/L		98	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-490898/1
Matrix: Water
Analysis Batch: 490898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			09/09/19 10:03	1

Lab Sample ID: LCS 480-490898/2
Matrix: Water
Analysis Batch: 490898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	482.0		mg/L		96	85 - 115

QC Association Summary

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

Job ID: 480-158667-1

GC/MS VOA

Analysis Batch: 491772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-2	BETWEEN CARBONS 090419	Total/NA	Water	8260C	
480-158667-4	EFFLUENT GRAB 090419	Total/NA	Water	8260C	
MB 480-491772/7	Method Blank	Total/NA	Water	8260C	
LCS 480-491772/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 492135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-5	INFLUENT GRAB 090419	Total/NA	Water	8260C	
MB 480-492135/7	Method Blank	Total/NA	Water	8260C	
LCS 480-492135/5	Lab Control Sample	Total/NA	Water	8260C	
480-158667-5 MS	INFLUENT GRAB 090419	Total/NA	Water	8260C	
480-158667-5 MSD	INFLUENT GRAB 090419	Total/NA	Water	8260C	

Metals

Prep Batch: 490691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	3005A	
480-158667-3	INFLUENT 090419	Total/NA	Water	3005A	
MB 480-490691/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 491322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	6010C	490691
480-158667-3	INFLUENT 090419	Total/NA	Water	6010C	490691
MB 480-490691/1-A	Method Blank	Total/NA	Water	6010C	490691
LCS 480-490691/2-A	Lab Control Sample	Total/NA	Water	6010C	490691

Prep Batch: 491925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	7470A	
480-158667-3	INFLUENT 090419	Total/NA	Water	7470A	
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 492040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	7470A	491925
480-158667-3	INFLUENT 090419	Total/NA	Water	7470A	491925
MB 480-491925/1-A	Method Blank	Total/NA	Water	7470A	491925
LCS 480-491925/2-A	Lab Control Sample	Total/NA	Water	7470A	491925

General Chemistry

Analysis Batch: 490898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	SM2540 C	
MB 480-490898/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-490898/2	Lab Control Sample	Total/NA	Water	SM2540 C	

QC Association Summary

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

Job ID: 480-158667-1

General Chemistry

Analysis Batch: 491105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158667-1	EFFLUENT 090419	Total/NA	Water	SM 2540D	
MB 480-491105/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-491105/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-158667-1

Client Sample ID: EFFLUENT 090419
Lab Sample ID: 480-158667-1
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:19	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:41	BMB	TAL BUF
Total/NA	Analysis	SM 2540D		1	491105	09/10/19 08:32	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	490898	09/09/19 10:03	ZFM	TAL BUF

Client Sample ID: BETWEEN CARBONS 090419
Lab Sample ID: 480-158667-2
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491772	09/12/19 22:41	OMI	TAL BUF

Client Sample ID: INFLUENT 090419
Lab Sample ID: 480-158667-3
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			490691	09/09/19 09:35	EMB	TAL BUF
Total/NA	Analysis	6010C		1	491322	09/10/19 19:23	AMH	TAL BUF
Total/NA	Prep	7470A			491925	09/13/19 12:00	BMB	TAL BUF
Total/NA	Analysis	7470A		1	492040	09/13/19 16:43	BMB	TAL BUF

Client Sample ID: EFFLUENT GRAB 090419
Lab Sample ID: 480-158667-4
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	491772	09/12/19 23:05	OMI	TAL BUF

Client Sample ID: INFLUENT GRAB 090419
Lab Sample ID: 480-158667-5
Date Collected: 09/04/19 07:20
Matrix: Water
Date Received: 09/05/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	492135	09/15/19 02:08	S1V	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-158667-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-158667-1

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
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-158667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158667-1	EFFLUENT 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-2	BETWEEN CARBONS 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-3	INFLUENT 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-4	EFFLUENT GRAB 090419	Water	09/04/19 07:20	09/05/19 08:00	
480-158667-5	INFLUENT GRAB 090419	Water	09/04/19 07:20	09/05/19 08:00	

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

Chain of Custody Record

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Client Information	Sampler: MARTIN Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s): Syracuse #225	COC No: 480-122346-10589.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America		Analysis Requested		Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days): Routine			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

480-158667 Chain of Custody

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	6010C - Zinc	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	A	D	D	X	
Effluent 090419	9-4-19	7:20	C	Water			1	1		1	1	4	
Between Carbons 090419	9-4-19	7:20	G	Water					3			3	
Influent 090419	9-4-19	7:20	C	Water						1	1	2	
Effluent 090419	9-4-19	7:20	G	W					3			3	
Influent 090419	9-4-19	7:20	G	W					3			3	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Martin Koennecke	Date/Time: 9-4-19 / 12:45	Company: OBG	Received by: [illegible signature]	Date/Time: 9-4-19, 12:45	Company: Syr
Relinquished by: [illegible signature]	Date/Time: 9-4-19, 19:00	Company: Syr	Received by: [illegible signature]	Date/Time: 9/5/19 0800	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.5

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-158667-1

Login Number: 158667
List Number: 1
Creator: Harper, Marcus D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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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ANALYTICAL REPORT

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

Laboratory Job ID: 480-158868-1
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. David J Carnevale

Authorized for release by:
9/16/2019 2:42:08 PM
Julianna DuHart, Project Management Assistant I
julianna.duhart@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-158868-1

Glossary

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

Case Narrative

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

Job ID: 480-158868-1

Job ID: 480-158868-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-158868-1

Receipt
The sample was received on 9/10/2019 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

Detection Summary

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

Job ID: 480-158868-1

Client Sample ID: EFFLUENT 090919

Lab Sample ID: 480-158868-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	630		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Job ID: 480-158868-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 090919
Lab Sample ID: 480-158868-1
Date Collected: 09/09/19 07:10
Matrix: Water
Date Received: 09/10/19 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**630**		10.0	4.0	mg/L			09/10/19 11:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/12/19 14:20	1

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

Lab Sample ID: MB 480-491749/1
Matrix: Water
Analysis Batch: 491749

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			09/12/19 14:20	1

Lab Sample ID: LCS 480-491749/2
Matrix: Water
Analysis Batch: 491749

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			257	252.4		mg/L		98	88 - 110		

Lab Sample ID: 480-158868-1 DU
Matrix: Water
Analysis Batch: 491749

Client Sample ID: EFFLUENT 090919
Prep Type: Total/NA

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

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-491182/1
Matrix: Water
Analysis Batch: 491182

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			09/10/19 11:54	1

Lab Sample ID: LCS 480-491182/2
Matrix: Water
Analysis Batch: 491182

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			500	486.0		mg/L		97	85 - 115		

QC Association Summary

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

Job ID: 480-158868-1

General Chemistry

Analysis Batch: 491182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158868-1	EFFLUENT 090919	Total/NA	Water	SM2540 C	
MB 480-491182/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-491182/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 491749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158868-1	EFFLUENT 090919	Total/NA	Water	SM 2540D	
MB 480-491749/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-491749/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-158868-1 DU	EFFLUENT 090919	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-158868-1

Client Sample ID: EFFLUENT 090919

Date Collected: 09/09/19 07:10
Date Received: 09/10/19 09:40

Lab Sample ID: 480-158868-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	491749	09/12/19 14:20	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	491182	09/10/19 11:54	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-158868-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-158868-1

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

Sample Summary

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

Job ID: 480-158868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158868-1	EFFLUENT 090919	Water	09/09/19 07:10	09/10/19 09:40	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

480-158868 Chain of Custody

Client Information	Sampler: MARTIN Koennecke	Lab PM: Schove, John R	1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com	
Company: O'Brien & Gere Inc of North America		Analysis	
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:		
City: East Syracuse	TAT Requested (days):		
State, Zip: NY, 13221			
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114		
Email: Yuri.Veliz@obg.com	WO #:		
Project Name: Former Accurate Die Cast	Project #: 48008584		
Site:	SSOW#:		

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 090919	9-9-19	7:10	C	Water			1	1	2	
Re 9-9-19										

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

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

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

Special Instructions/QC Requirements:

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Matt Koennecke	9-9-19 / 10:40	OBG	Received by:	9-9-19	10:40
Relinquished by: Relinquished	9.9.19, 19:00		Received by:	9/10/19	9:40
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.2 4/4

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-158868-1

Login Number: 158868
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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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ANALYTICAL REPORT

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

Laboratory Job ID: 480-159266-1
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. David J Carnevale

Authorized for release by:
9/27/2019 3:39:01 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

Table of Contents

Definitions/Glossary

Client: O'Brien & Gere Inc of North America
Job ID: 480-159266-1
Project/Site: Former Accurate Die Cast

Glossary

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

Job ID: 480-159266-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-159266-1

Receipt
The sample was received on 9/17/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

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

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

Detection Summary

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

Job ID: 480-159266-1

Client Sample ID: EFFLUENT 091619

Lab Sample ID: 480-159266-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	660		10.0	4.0	mg/L	1		SM2540 C	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

Job ID: 480-159266-1

Client Sample ID: EFFLUENT 091619
Date Collected: 09/16/19 07:00
Date Received: 09/17/19 08:00

Lab Sample ID: 480-159266-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/19 23:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/19 23:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/19 23:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/19 23:36	1
Toluene	ND		1.0	0.51	ug/L			09/25/19 23:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/19 23:36	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/19 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/25/19 23:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/25/19 23:36*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/19 23:36*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/25/19 23:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**660**		10.0	4.0	mg/L			09/20/19 12:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/19/19 15:03	1

Surrogate Summary

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

Job ID: 480-159266-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-159266-1	EFFLUENT 091619	103	102	101	99
LCS 480-494029/5	Lab Control Sample	106	104	99	112
MB 480-494029/7	Method Blank	107	99	100	102

Surrogate Legend

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

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

Lab Sample ID: MB 480-494029/7
Matrix: Water
Analysis Batch: 494029

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/25/19 23:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/25/19 23:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/25/19 23:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/25/19 23:12	1
Toluene	ND		1.0	0.51	ug/L			09/25/19 23:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/25/19 23:12	1
Trichloroethene	ND		1.0	0.46	ug/L			09/25/19 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*09/25/19 23:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/25/19 23:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/25/19 23:12*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/25/19 23:12*	*1*

Lab Sample ID: LCS 480-494029/5
Matrix: Water
Analysis Batch: 494029

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		87	76 - 120
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
Methylene Chloride	25.0	24.1		ug/L		97	75 - 124
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	23.6		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	73 - 127
Trichloroethene	25.0	26.1		ug/L		104	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*

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

Lab Sample ID: MB 480-492992/1
Matrix: Water
Analysis Batch: 492992

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			09/19/19 15:03	1

Lab Sample ID: LCS 480-492992/2
Matrix: Water
Analysis Batch: 492992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	255	242.4		mg/L		95	88 - 110

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

Job ID: 480-159266-1

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-493198/1
Matrix: Water
Analysis Batch: 493198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			09/20/19 12:09	1

Lab Sample ID: LCS 480-493198/2
Matrix: Water
Analysis Batch: 493198

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

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

QC Association Summary

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

Job ID: 480-159266-1

GC/MS VOA

Analysis Batch: 494029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	8260C	
MB 480-494029/7	Method Blank	Total/NA	Water	8260C	
LCS 480-494029/5	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 492992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	SM 2540D	
MB 480-492992/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-492992/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 493198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-159266-1	EFFLUENT 091619	Total/NA	Water	SM2540 C	
MB 480-493198/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-493198/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-159266-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 091619
Lab Sample ID: 480-159266-1
Date Collected: 09/16/19 07:00
Matrix: Water
Date Received: 09/17/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	494029	09/25/19 23:36	BTP	TAL BUF
Total/NA	Analysis	SM 2540D		1	492992	09/19/19 15:03	ZFM	TAL BUF
Total/NA	Analysis	SM2540 C		1	493198	09/20/19 12:09	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-159266-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-159266-1

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
5030C	Purge and Trap	SW846	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

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

Job ID: 480-159266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-159266-1	EFFLUENT 091619	Water	09/16/19 07:00	09/17/19 08:00	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Syracuse #225

480-159266 Chain of Custody

Client Information	Sampler: Martin Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-122353-10587.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page:
Company: O'Brien & Gere Inc of North America				
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Codes:
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	8260C - Volatile Organic Compounds	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	A		
Effluent 091619	9-16-19	7:00	C	Water			1	1		2	
Effluent 091619	9-16-19	7:00	G	water					3	3	

RE
9-16-19

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Martin Koennecke	9-16-19 / 10:00	OBG	RE English	9-16-19, 10:00	Eyn
RE English	9-16-19, 19:00	Eyn	C Wallace	9/17/19 0800	TAB

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

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-159266-1

Login Number: 159266

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-160001-1
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. David J Carnevale

Authorized for release by:
10/11/2019 5:37:04 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

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

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

Definitions/Glossary

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

Job ID: 480-160001-1

Glossary

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

Case Narrative

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

Job ID: 480-160001-1

Job ID: 480-160001-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-160001-1

Receipt
The sample was received on 10/1/2019 8:00 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.

Detection Summary

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

Job ID: 480-160001-1

Client Sample ID: EFFLUENT 093019

Lab Sample ID: 480-160001-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	608		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Job ID: 480-160001-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 093019
Lab Sample ID: 480-160001-1
Date Collected: 09/30/19 07:00
Matrix: Water
Date Received: 10/01/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**608**		10.0	4.0	mg/L			10/03/19 09:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/02/19 13:38	1

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

Job ID: 480-160001-1

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

Lab Sample ID: MB 480-495478/1
Matrix: Water
Analysis Batch: 495478

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			10/02/19 13:38	1

Lab Sample ID: LCS 480-495478/2
Matrix: Water
Analysis Batch: 495478

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	245	244.4		mg/L		100	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-495687/1
Matrix: Water
Analysis Batch: 495687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			10/03/19 09:59	1

Lab Sample ID: LCS 480-495687/2
Matrix: Water
Analysis Batch: 495687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	459.0		mg/L		92	85 - 115

QC Association Summary

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

Job ID: 480-160001-1

General Chemistry

Analysis Batch: 495478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160001-1	EFFLUENT 093019	Total/NA	Water	SM 2540D	
MB 480-495478/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-495478/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 495687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160001-1	EFFLUENT 093019	Total/NA	Water	SM2540 C	
MB 480-495687/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-495687/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Lab Chronicle

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

Job ID: 480-160001-1

Client Sample ID: EFFLUENT 093019

Date Collected: 09/30/19 07:00
Date Received: 10/01/19 08:00

Lab Sample ID: 480-160001-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	495478	10/02/19 13:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	495687	10/03/19 09:59	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-160001-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-160001-1

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

Sample Summary

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

Job ID: 480-160001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-160001-1	EFFLUENT 093019	Water	09/30/19 07:00	10/01/19 08:00	

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

Chain of Custody Record

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Syracuse

Client Information	Sampler: MARTin Koennecke	Lab PM: Schove, John R	Carrier Tracking No(s): #225	COC No: 480-122378-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America				Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Analysis Requested

480-160001 Chain of Custody

Preservation Codes:
A - HCL
B - NaOH
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of cont	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 093019	9-30-19	7:00	C	Water			1	1	2	

Re-
9-30-19

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

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

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

Special Instructions/QC Requirements:

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

	Date/Time	Company		Date/Time	Company
Relinquished by: Martin Koennecke	9-30-19 / 8:50	OBG	Received by: Reinglass	9.30.19, 08:50	Eya
Relinquished by: Reinglass	9-30-19, 19:00	Eya	Received by:		
Relinquished by:			Received by:	10-1-19 800	DNB

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

Cooler Temperature(s) °C and Other Remarks: 3.1 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-160001-1

Login Number: 160001

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

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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ANALYTICAL REPORT

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

Laboratory Job ID: 480-160013-1
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. David J Carnevale

Authorized for release by:
10/9/2019 9:43:07 AM
Alexander Gilbert, Project Management Assistant I
alexander.gilbert@testamericainc.com

Designee for

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

Table of Contents

Client: O'Brien & Gere Inc of North America
Job ID: 480-160013-1
Project/Site: Former Accurate Die Cast

Glossary

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

Case Narrative

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

Job ID: 480-160013-1

Job ID: 480-160013-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-160013-1

Receipt
The sample was received on 9/28/2019 8:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

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

Detection Summary

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

Job ID: 480-160013-1

Client Sample ID: EFFLUENT 092719

Lab Sample ID: 480-160013-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	4.8		4.0	4.0	mg/L	1		SM 2540D	Total/NA
Total Dissolved Solids	665		10.0	4.0	mg/L	1		SM2540 C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O'Brien & Gere Inc of North America
Job ID: 480-160013-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 092719
Lab Sample ID: 480-160013-1
Date Collected: 09/27/19 07:00
Matrix: Water
Date Received: 09/28/19 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	665		10.0	4.0	mg/L			10/02/19 11:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.8		4.0	4.0	mg/L			10/02/19 13:38	1

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

Job ID: 480-160013-1

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

Lab Sample ID: MB 480-495478/1
Matrix: Water
Analysis Batch: 495478

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			10/02/19 13:38	1

Lab Sample ID: LCS 480-495478/2
Matrix: Water
Analysis Batch: 495478

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	245	244.4		mg/L		100	88 - 110

Method: SM2540 C - Total Dissolved Solids

Lab Sample ID: MB 480-495426/1
Matrix: Water
Analysis Batch: 495426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			10/02/19 11:00	1

Lab Sample ID: LCS 480-495426/2
Matrix: Water
Analysis Batch: 495426

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	491.0		mg/L		98	85 - 115

QC Association Summary

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

Job ID: 480-160013-1

General Chemistry

Analysis Batch: 495426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160013-1	EFFLUENT 092719	Total/NA	Water	SM2540 C	
MB 480-495426/1	Method Blank	Total/NA	Water	SM2540 C	
LCS 480-495426/2	Lab Control Sample	Total/NA	Water	SM2540 C	

Analysis Batch: 495478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-160013-1	EFFLUENT 092719	Total/NA	Water	SM 2540D	
MB 480-495478/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-495478/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: O'Brien & Gere Inc of North America
Job ID: 480-160013-1
Project/Site: Former Accurate Die Cast

Client Sample ID: EFFLUENT 092719
Lab Sample ID: 480-160013-1
Date Collected: 09/27/19 07:00
Matrix: Water
Date Received: 09/28/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	495478	10/02/19 13:38	CSS	TAL BUF
Total/NA	Analysis	SM2540 C		1	495426	10/02/19 11:00	CSS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O'Brien & Gere Inc of North America
Job ID: 480-160013-1
Project/Site: Former Accurate Die Cast

Laboratory: Eurofins TestAmerica, Buffalo

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

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

Method Summary

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

Job ID: 480-160013-1

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

Sample Summary

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

Job ID: 480-160013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-160013-1	EFFLUENT 092719	Water	09/27/19 07:00	09/28/19 08:00	

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

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Syracuse

Client Information	Sampler: Martin Kennedy	Lab PM: Schove, John R	Carrier Tracking No(s): #225	COC No: 480-122378-10586.1
Client Contact: Mr. Yuri Veliz	Phone: 315-729-1300	E-Mail: john.schove@testamericainc.com		Page: Page 1 of 1
Company: O'Brien & Gere Inc of North America				Job #:
Address: 333 West Washington St. PO BOX 4873	Due Date Requested:			
City: East Syracuse	TAT Requested (days):			
State, Zip: NY, 13221				
Phone: 315-956-6100(Tel) 315-463-7554(Fax)	PO #: 11900114			
Email: Yuri.Veliz@obg.com	WO #:			
Project Name: Former Accurate Die Cast	Project #: 48008584			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: M - Hexane; K - EDTA; L - EDA; Z - other (specify); Other:

480-160013 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Effluent 092719	9-27-19	7:00	Comp	Water			1	1	2	
RE 9-27-19										

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

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

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

Special Instructions/QC Requirements:

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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Martin Kennedy	9-27-19 / 10:20	OBG	RECEIVED	9-27-19, 10:20	
Relinquished by: RECEIVED	9-27-19, 19:00		Cwalker	9/28/19 0800	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-160013-1

Login Number: 160013

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	