O'BRIEN & GERE
ENGINEERS, INC.

January 14, 1999

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Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site Fayetteville, NY

File: 2488.731

Dear Mr. Crosby:

Enclosed are four copies of the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of December 1998. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through December 1998. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Timothy M. Eddy, HGW
Senior Project Scientist

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Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
Al Farrell, P.E.- O'Brien & Gere Engineers, Inc.

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(315) 437-6100 FAX (315) 463-7554 • intnet www.obg.com
and offices in major U.S. cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: December 1998

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of December 1998, O'Brien & Gere operated the ground water collection and treatment system on behalf of ITT Industries. Between December 1 through December 31, 1998, a total of 450,480 gallons of ground water was treated: 352,940 gallons were recovered from recovery well RW-1; 96,910 gallons were recovered from RW-2; and 630 gallons were recovered from the sump located outside the northeast corner of the facility. As of December 31,1998, a total of 24,244,800 gallons of ground water has been treated since startup on February 5, 1996.

2. During the month of December 1998, O'Brien & Gere performed the sampling activities associated with the Sampling and Analysis Plan (March 1996), revised according to the NYSDEC letter dated April 1, 1997, and the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the ground water treatment system effluent are discussed in Item b.

3. Bids for the construction of the ground water collection trench are currently undergoing review by ITT Industries.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed through December 31, 1998 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. Continue operation of the ground water recovery and treatment system.

2. Complete review of the bids to construct the Ground Water Collection Trench- Contract No. 1 - General, award contract, and commence construction activities.

3. Prepare and submit the annual report summarizing 1998 remedial activities.

(d) Project Schedule

1. Ground water monitoring activities will continue to be performed in accordance with the NYSDEC-approved Sampling & Analysis Plan dated March 1996, as modified in accordance with the recommendations of the Annual Report for 1997 submitted to the NYSDEC on January 27, 1998. Also, the treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

(e) Activities in support of Community Relations Plan

1. None

(f) Exceedences to SPDES Fact Sheet Limits

1. None

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1200
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 13

Collected: 12/02/98
Received: 12/02/98
Prepared: 12/04/98

Matrix: Water
QC Batch: 120498W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	12/04/98	
Methylene chloride	<2.0		1	12/04/98	
trans-1,2-Dichloroethene	<.50		1	12/04/98	
cis-1,2-Dichloroethene	<.50		1	12/04/98	
Trichloroethene	<.50		1	12/04/98	
4-Methyl-2-pentanone	<5.0		1	12/04/98	
Toluene	<.50		1	12/04/98	
2-Hexanone	<5.0		1	12/04/98	
Tetrachloroethene	<.50		1	12/04/98	
1,1,2,2-Tetrachloroethane	<.50		1	12/04/98	
Dibromofluoromethane (surrogate)	96.%	61-136	1	12/04/98	
Toluene-d8 (surrogate)	101.%	84-114	1	12/04/98	
Bromofluorobenzene (surrogate)	97.%	77-117	1	12/04/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 7,1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1198
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 12/02/98
Received: 12/02/98
Prepared:
Analyzed: 12/08/98

Matrix: Water
QC Batch: 120898W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<50.	1		
Bromodichloromethane	<50.	1		
Bromoform	<500.	1		
Bromomethane	<500.	1		
Carbon tetrachloride	<50.	1		
Chlorobenzene	<50.	1		
Chloroethane	<50.	1		
2-Chloroethylvinyl ether	<500.	1		
Chloroform	<50.	1		
Chloromethane	<500.	1		
Dibromochloromethane	<50.	1		
1,2-Dichlorobenzene	<250.	1		
1,3-Dichlorobenzene	<250.	1		
1,4-Dichlorobenzene	<250.	1		
Dichlorodifluoromethane	<500.	1		
1,1-Dichloroethane	<50.	1		
1,2-Dichloroethane	<50.	1		
1,1-Dichloroethylene	<50.	1		
cis-1,2-Dichloroethylene	<50.	1		
trans-1,2-Dichloroethylene	<50.	1		
Dichloromethane	<50.	1		
1,2-Dichloropropane	<50.	1		
cis-1,3-Dichloropropylene	<50.	1		
trans-1,3-Dichloropropylene	<50.	1		
Ethylbenzene	<50.	1		
1,1,2,2-Tetrachloroethane	<50.	1		
Tetrachloroethylene	<50.	1		
Toluene	<50.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 10,1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1199
Samp. Description: WTP Between
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 12/02/98
Received: 12/02/98
Prepared:
Analyzed: 12/09/98

Matrix: Water
QC Batch: 120998W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<1.	1		
Bromodichloromethane	<1.	1		
Bromoform	<10.	1		
Bromomethane	<10.	1		
Carbon tetrachloride	<1.	1		
Chlorobenzene	<1.	1		
Chloroethane	<1.	1		
2-Chloroethylvinyl ether	<10.	1		
Chloroform	<1.	1		
Chloromethane	<10.	1		
Dibromochloromethane	<1.	1		
1,2-Dichlorobenzene	<5.	1		
1,3-Dichlorobenzene	<5.	1		
1,4-Dichlorobenzene	<5.	1		
Dichlorodifluoromethane	<10.	1		
1,1-Dichloroethane	<1.	1		
1,2-Dichloroethane	<1.	1		
1,1-Dichloroethylene	<1.	1		
cis-1,2-Dichloroethylene	<1.	1		
trans-1,2-Dichloroethylene	<1.	1		
Dichloromethane	<1.	1		
1,2-Dichloropropane	<1.	1		
cis-1,3-Dichloropropylene	<1.	1		
trans-1,3-Dichloropropylene	<1.	1		
Ethylbenzene	<1.	1		
1,1,2,2-Tetrachloroethane	<1.	1		
Tetrachloroethylene	<1.	1		
Toluene	<1.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 10,1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1198
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 12/02/98
Received: 12/02/98
Prepared:
Analyzed: 12/08/98

Matrix: Water
QC Batch: 120898W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<50.	1		
1,1,2-Trichloroethane	<50.	1		
Trichloroethylene	580.	1		
Trichlorofluoromethane	<50.	1		
Vinyl Chloride	<50.	1		
Xylenes (total)	<150.	1		
2-Chloropropane (surrogate)	90.%	1	69-118	
Fluorobenzene (surrogate)	99.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 10,1998 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1199
Samp. Description: WTP Between
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 12/02/98
Received: 12/02/98
Prepared:
Analyzed: 12/09/98

Matrix: Water
QC Batch: 120998W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<1.	1		
1,1,2-Trichloroethane	<1.	1		
Trichloroethylene	<1.	1		
Trichlorofluoromethane	<1.	1		
Vinyl Chloride	<1.	1		
Xylenes (total)	<3.	1		
2-Chloropropane (surrogate)	100.%	1	69-118	
Fluorobenzene (surrogate)	98.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 10, 1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1201
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 12/02/98
Received: 12/02/98

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	12/08/98	12/09/98	120898W1	1	
Zinc	<.01	200.7	12/10/98	12/11/98	121098W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 15, 1998 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K1201
Samp. Description: WTP Effluent - Composite

Collected: 12/02/98
Received: 12/02/98 15:35

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	1100.	mg/L	EPA 160.1		12/03/98	120398W12	
Total suspended solids	<5.	mg/L	EPA 160.2		12/04/98	120498W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 8,1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

(42)

Chain of Custody

Client: O'BRIEN & GERE

Project: ITT COMMERCIAL FINANCE (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: JERRY BORN / TIM EDDY Phone # 6370109 / 2407

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8021	VOCs EPA METH 8021	VOCs EPA METH 8260	Zn + Hg	TSS/TDS			Comments
WTP INFLUENT	12/2/98	802 AM	WATER	GRAB	2	X							
WTP BETWEEN	12/2/98	803 AM	WATER	GRAB	2		X						
WTP EFFLUENT	12/2/98	808 AM	WATER	GRAB	2			X					
WTP EFFLUENT	12/2/98	1107 AM	WATER	COMP	1				X				
WTP EFFLUENT	12/2/98	1110 AM	WATER	COMP	1					X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry Born	Date: 12/2/98	Time: 1535	Received by Lab: Mark F. Jackson	Date: 12/2/98	Time: 15:35
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K2300
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 13

Collected: 12/16/98
Received: 12/16/98
Prepared: 12/22/98

Matrix: Water
QC Batch: 122298W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	12/22/98	
Methylene chloride	<2.0		1	12/22/98	
trans-1,2-Dichloroethene	<.50		1	12/22/98	
cis-1,2-Dichloroethene	<.50		1	12/22/98	
Trichloroethene	<.50		1	12/22/98	
4-Methyl-2-pentanone	<5.0		1	12/22/98	
Toluene	<.50		1	12/22/98	
2-Hexanone	<5.0		1	12/22/98	
Tetrachloroethene	<.50		1	12/22/98	
1,1,2,2-Tetrachloroethane	<.50		1	12/22/98	
Dibromofluoromethane (surrogate)	108.%	61-136	1	12/22/98	
Toluene-d8 (surrogate)	106.%	84-114	1	12/22/98	
Bromofluorobenzene (surrogate)	107.%	77-117	1	12/22/98	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: December 23,1998 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K2301
Samp. Description: WTP Effluent (Composite)
Units: mg/L

Collected: 12/16/98
Received: 12/16/98

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	12/18/98	12/18/98	121898W1	1	
Zinc	.01	200.7	12/23/98	12/28/98	122398W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 30, 1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results - Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K2301
Samp. Description: WTP Effluent (Composite)

Collected: 12/16/98
Received: 12/16/98 15:35

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	1000.	mg/L	EPA 160.1		12/21/98	122198W11	
Total suspended solids	<5.	mg/L	EPA 160.2		12/23/98	122398W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 30, 1998

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Attachment A

Laboratory Analytical Data Sheets

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 12/02/97	Effluent 12/03/97	Effluent 12/04/97	Effluent 12/09/97
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	15300	---	15440	15494
pH (SU)	6.5 - 8.5		2/Week	Grab	7.56	---	7.56	7.58
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	1100	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.02	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 12/10/97	Effluent 12/11/97	Effluent 12/16/97	Effluent 12/17/97	Effluent 12/18/97	Effluent 12/23/97	Effluent 12/30/97	Effluent 01/06/98
Flow (GPD)	---	15810	15620	---	15320	15420	15450	17630
pH (SU)	---	7.58	7.6	---	7.6	7.58	7.58	7.61
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	5 U	5 U	---
Total dissolved solids (TDS) (mg/L)	1100	---	---	1100	---	1100	1200	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	9.07	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.04	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 01/07/98	Effluent 01/08/98	Effluent 01/13/98	Effluent 01/14/98	Effluent 01/15/98	Effluent 01/20/98	Effluent 01/21/98	Effluent 01/22/98
Flow (GPD)	---	17865	19584	---	20198	20310	---	20198
pH (SU)	---	7.61	7.61	---	7.61	7.61	---	7.63
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	1000	---	---	970	---	---	1000	---
CBOD5 (mg/L)	5 U	---	---	---	---	---	---	---
TKN (mg/L)	0.5	---	---	---	---	---	---	---
TOD (mg/L)	9.75 J	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	9.69	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	0.1 U	---	---	---	---	---	---	---
Antimony, total (mg/L)	0.06 U	---	---	---	---	---	---	---
Chromium, total (mg/L)	0.01 U	---	---	---	---	---	---	---
Cobalt, total (mg/L)	0.01 U	---	---	---	---	---	---	---
Copper, total (mg/L)	0.02	---	---	---	---	---	---	---
Iron, total (mg/L)	0.05 U	---	---	---	---	---	---	---
Lead, total (mg/L)	0.005 U	---	---	---	---	---	---	---
Mercury, total (mg/L)	0.0002 U	---	---	---	---	---	0.0002 U	---
Nickel, total (mg/L)	0.05 U	---	---	---	---	---	---	---
Silver, total (mg/L)	0.01 U	---	---	---	---	---	---	---
Vanadium, total (mg/L)	0.03 U	---	---	---	---	---	---	---
Zinc, total (mg/L)	0.02	---	---	---	---	---	0.03	---
cis-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Methylene chloride (ug/L)	2.0 U	---	---	---	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Tetrachloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Toluene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Trichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Acetone (ug/L)	10 U	---	---	---	---	---	10 U	---
2-Hexanone (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 01/27/98	Effluent 01/28/98	Effluent 01/29/98	Effluent 02/03/98	Effluent 02/04/98	Effluent 02/05/98	Effluent 02/10/98	Effluent 02/11/98
Flow (GPD)	20744	---	20723	20580	---	20765	20452	---
pH (SU)	7.63	---	7.61	7.61	---	7.63	7.63	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	960	---	---	1000	---	---	960
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.03	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 02/12/98	Effluent 02/17/98	Effluent 02/18/98	Effluent 02/19/98	Effluent 02/25/98	Effluent 02/26/98	Effluent 03/03/98	Effluent 03/04/98
Flow (GPD)	20480	20321	20530	20817	---	20722	22150	---
pH (SU)	7.61	7.63	7.65	7.63	---	7.65	8.16	---
Residue, non-filterable (mg/L)	---	---	5 U	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	---	920	---	920	---	---	960
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	8.29	---	---	---	---	8.33
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.05	---	---	---	---	0.01 U
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	0.50 U
Acetone (ug/L)	---	---	10 U	---	---	---	---	10 U
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 03/05/98	Effluent 03/10/98	Effluent 03/11/98	Effluent 03/12/98	Effluent 03/17/98	Effluent 03/18/98	Effluent 03/19/98	Effluent 03/24/98
Flow (GPD)	20910	21731	---	21062	22110	---	22390	22160
pH (SU)	7.89	7.76	---	7.71	7.69	---	7.63	7.61
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	980	---	---	890	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 03/25/98	Effluent 03/26/98	Effluent 03/31/98	Effluent 04/01/98	Effluent 04/02/98	Effluent 04/07/98	Effluent 04/08/98	Effluent 04/09/98
Flow (GPD)	---	22111	22480	---	21879	21527	---	21630
pH (SU)	---	7.63	7.63	---	7.65	7.61	---	7.65
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	890	---	---	910	---	---	1100	---
CBOD5 (mg/L)	---	---	---	5 U	---	---	---	---
TKN (mg/L)	---	---	---	0.4 U	---	---	---	---
TOD (mg/L)	---	---	---	9.3 U	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	8.83	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	0.1 U	---	---	---	---
Antimony, total (mg/L)	---	---	---	0.06 U	---	---	---	---
Chromium, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Cobalt, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Copper, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Iron, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Lead, total (mg/L)	---	---	---	0.005 U	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Silver, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Vanadium, total (mg/L)	---	---	---	0.03 U	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 04/14/98	Effluent 04/15/98	Effluent 04/16/98	Effluent 04/21/98	Effluent 04/22/98	Effluent 04/23/98	Effluent 04/28/98	Effluent 04/29/98
Flow (GPD)	21226	---	21080	21246	---	21485	21170	---
pH (SU)	7.65	---	7.63	7.65	---	7.65	7.67	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	910	---	---	940	---	---	980
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.03	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	---
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	---
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Acetone (ug/L)	---	10 U	---	---	---	---	---	---
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 04/30/98	Effluent 05/05/98	Effluent 05/07/98	Effluent 05/12/98	Effluent 05/13/98	Effluent 05/14/98	Effluent 05/19/98	Effluent 05/20/98
Flow (GPD)	21100	20880	20740	20880	---	20498	20620	---
pH (SU)	7.65	7.61	7.65	7.67	---	7.65	7.65	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	850	---	---	920	---	---	990
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	10.72	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.01 U	---	---	---	---	---	0.01 U
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 05/21/98	Effluent 05/26/98	Effluent 05/27/98	Effluent 05/28/98	Effluent 06/02/98	Effluent 06/03/98	Effluent 06/04/98	Effluent 06/09/98
Flow (GPD)	20350	15504	---	19867	19784	---	19700	19350
pH (SU)	7.67	7.62	---	7.69	7.72	---	7.98	7.82
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	860	---	---	1000	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	8.14	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.02	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 06/10/98	Effluent 06/11/98	Effluent 06/16/98	Effluent 06/17/98	Effluent 06/18/98	Effluent 06/23/98	Effluent 06/24/98	Effluent 06/25/98
Flow (GPD)	---	19200	18470	---	18313	18930	---	18250
pH (SU)	---	7.78	7.72	---	7.71	7.70	---	7.72
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	980	---	---	950	---	---	990	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.34	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 06/30/98	Effluent 07/01/98	Effluent 07/02/98	Effluent 07/07/98	Effluent 07/08/98	Effluent 07/09/98	Effluent 07/14/98	Effluent 07/15/98
Flow (GPD)	19930	---	19230	19158	---	19480	19110	---
pH (SU)	7.72	---	7.72	7.71	---	7.71	7.72	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	950	---	---	880	---	---	1200
CBOD5 (mg/L)	---	5 U	---	---	---	---	---	---
TKN (mg/L)	---	0.4 U	---	---	---	---	---	---
TOD (mg/L)	---	9.3 U	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	7.62	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	0.1 U	---	---	---	---	---	---
Antimony, total (mg/L)	---	0.06 U	---	---	---	---	---	---
Chromium, total (mg/L)	---	0.01 U	---	---	---	---	---	---
Cobalt, total (mg/L)	---	0.01 U	---	---	---	---	---	---
Copper, total (mg/L)	---	0.02	---	---	---	---	---	---
Iron, total (mg/L)	---	0.05 U	---	---	---	---	---	---
Lead, total (mg/L)	---	0.005 U	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	0.05 U	---	---	---	---	---	---
Silver, total (mg/L)	---	0.01 U	---	---	---	---	---	---
Vanadium, total (mg/L)	---	0.03 U	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.05	---	---	---	---	---	0.06
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	2.5	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 07/16/98	Effluent 07/21/98	Effluent 07/22/98	Effluent 07/23/98	Effluent 07/28/98	Effluent 07/29/98	Effluent 07/30/98	Effluent 08/04/98
Flow (GPD)	19085	19010	---	19160	19060	---	19085	19025
pH (SU)	7.72	7.72	---	7.71	7.71	---	7.72	7.72
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	1000	---	---	1000	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	---	---	---
Methylene chloride (ug/L)	---	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	---	---	---
Toluene (ug/L)	---	---	---	---	---	---	---	---
Trichloroethene (ug/L)	---	---	---	---	---	---	---	---
Acetone (ug/L)	---	---	---	---	---	---	---	---
2-Hexanone (ug/L)	---	---	---	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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ENGINEERS, INC.

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

Analyte	Effluent 08/05/98	Effluent 08/06/98	Effluent 08/11/98	Effluent 08/12/98	Effluent 08/13/98	Effluent 08/18/98	Effluent 08/19/98	Effluent 08/20/98
Flow (GPD)	---	18916	18730	---	18489	18605	---	18557
pH (SU)	---	7.71	7.69	---	7.72	7.72	---	7.72
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	910	---	---	900	---	---	910	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	7.31	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	0.0002 U	---	---	---	---	---	0.0002 U	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	0.09	---	---	---	---	---	0.02	---
cis-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Methylene chloride (ug/L)	2.0 U	---	---	---	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Tetrachloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Toluene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Trichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Acetone (ug/L)	10 U	---	---	---	---	---	10 U	---
2-Hexanone (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 08/25/98	Effluent 08/26/98	Effluent 08/27/98	Effluent 09/01/98	Effluent 09/02/98	Effluent 09/03/98	Effluent 09/08/98	Effluent 09/09/98
Flow (GPD)	19070	---	18450	18550	---	18443	18336	---
pH (SU)	7.72	---	7.72	7.72	---	7.72	7.72	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	880	---	---	960	---	---	950
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	10.79	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.02	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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ENGINEERS, INC.

Table 1
Accurate Die Casting Site
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Monitoring Requirements and Effluent Data

Analyte	Effluent 09/10/98	Effluent 09/15/98	Effluent 09/16/98	Effluent 09/17/98	Effluent 09/22/98	Effluent 09/23/98	Effluent 09/24/98	Effluent 09/29/98
Flow (GPD)	18806	17916	---	17710	17860	---	17590	17098
pH (SU)	7.72	7.74	---	7.70	7.72	---	7.74	7.74
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	940	---	---	1100	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.02	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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Analyte	Effluent 09/30/98	Effluent 10/01/98	Effluent 10/06/98	Effluent 10/07/98	Effluent 10/08/98	Effluent 10/13/98	Effluent 10/14/98	Effluent 10/15/98
Flow (GPD)	---	16860	16268	---	16200	16020	---	16020
pH (SU)	---	7.74	7.76	---	7.74	7.76	---	7.76
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	900	---	---	990	---	---	1100	---
CBOD5 (mg/L)	---	---	---	5 U	---	---	---	---
TKN (mg/L)	---	---	---	0.4 U	---	---	---	---
TOD (mg/L)	---	---	---	9.3 U	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	10.44	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	0.1 U	---	---	---	---
Antimony, total (mg/L)	---	---	---	0.06 U	---	---	---	---
Chromium, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Cobalt, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Copper, total (mg/L)	---	---	---	0.03	---	---	---	---
Iron, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Lead, total (mg/L)	---	---	---	0.005 U	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Silver, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Vanadium, total (mg/L)	---	---	---	0.03 U	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.04	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 10/20/98	Effluent 10/21/98	Effluent 10/22/98	Effluent 10/27/98	Effluent 10/28/98	Effluent 10/29/98	Effluent 11/03/98	Effluent 11/04/98
Flow (GPD)	15740	---	15550	15280	---	15510	14922	---
pH (SU)	7.76	---	7.74	7.76	---	7.76	7.76	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	1000	---	---	1000	---	---	980
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	9.38
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.02	---	---	---	---	---	0.04
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 11/05/98	Effluent 11/10/98	Effluent 11/11/98	Effluent 11/12/98	Effluent 11/17/98	Effluent 11/18/98	Effluent 11/19/98	Effluent 11/24/98
Flow (GPD)	14780	14410	---	14230	14110	---	13940	13690
pH (SU)	7.74	7.81	8	8.08	7.90	5 U	7.85	7.79
Residue, non-filterable (mg/L)	---	---	---	---	---	1000	---	5 U
Total dissolved solids (TDS) (mg/L)	---	---	1300	---	---	---	---	1100
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.0002 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	---	---	---
Methylene chloride (ug/L)	---	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.02	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	---	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
ethene (ug/L)	---	---	---	---	---	0.50 U	---	---
	---	---	---	---	---	2.0 U	---	---
	---	---	---	---	---	0.50 U	---	---
	---	---	---	---	---	0.50 U	---	---
	---	---	---	---	---	0.50 U	---	---
	---	---	---	---	---	0.50 U	---	---
	---	---	---	---	---	10 U	---	---
	---	---	---	---	---	5.0 U	---	---
	---	---	---	---	---	5.0 U	---	---

mit modified March 13, 1997.

O'BRIEN & GERE
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Table 1
Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte	Effluent 12/01/98	Effluent 12/02/98	Effluent 12/03/98	Effluent 12/08/98	Effluent 12/09/98	Effluent 12/10/98	Effluent 12/15/98	Effluent 12/16/98
Flow (GPD)	13363	---	13325	13120	---	13080	12800	---
pH (SU)	7.81	---	7.85	7.81	---	7.81	7.81	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	1100	---	---	1100	---	---	1000
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	9.25	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.01 U	---	---	---	---	---	0.01
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
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Table 1
Accurate Die Casting Site
Fayetteville, New York
Monitoring Requirements and Effluent Data

Analyte	Effluent 12/17/98	Effluent 12/21/98	Effluent 12/23/98	Effluent 12/29/98	Effluent 12/31/98
Flow (GPD)	12720	12563	12830	12700	12590
pH (SU)	7.81	7.81	7.81	7.78	7.82
Residue, non-filterable (mg/L)	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	1100	---	---
CBOD5 (mg/L)	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---
Methylene chloride (ug/L)	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---
Toluene (ug/L)	---	---	---	---	---
Trichloroethene (ug/L)	---	---	---	---	---
Acetone (ug/L)	---	---	---	---	---
2-Hexanone (ug/L)	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

February 25, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Annual Report
Former Accurate Die Casting Site
Fayetteville, New York

File: 2488.731 #5

Dear Mr. Crosby:

This letter presents the Annual Report for the ground water recovery and treatment system (System) at the former Accurate Die Casting site located at 547 East Genesee Street in the Village of Fayetteville, New York (Figure 1). The System was constructed in 1995 to recover and treat overburden and shallow bedrock ground water exhibiting volatile organic compounds (VOCs) in accordance with the Consent Order between the New York State Department of Environmental Conservation (NYSDEC) and ITT Commercial Finance Corporation dated August 19, 1991, as amended June 6, 1994. The System has been operating since February 5, 1996.

The purpose of this report is to present a summary and evaluation of the data collected between December 1, 1997 and December 1, 1998. These data include monitoring and recovery well data as well as System performance information generated in accordance with the NYSDEC-approved Sampling and Analysis Plan (SAP) dated March 1996 and the State Pollutant Discharge Elimination System (SPDES) Permit #734052.

This report is divided into six sections as follows:

1. Project background
2. System performance
3. Ground water monitoring
4. Ground water quality assessment
5. Conclusions
6. Recommendations

1. PROJECT BACKGROUND

Presented below is background information regarding the remedial investigation (RI) for the site, remediation activities completed to date, and information regarding the ground water recovery and treatment system.

Remediation investigation:

As a result of the RI and additional studies conducted for the former Accurate Die Casting site, the NYSDEC identified five areas which could pose an unacceptable risk to human health if not remediated. The five areas identified in the December 1994 Record of Decision (ROD) are as follows:

Area 1 - An area of soils containing polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and VOCs. This area is also referred to as the PCB/PAH/VOC Soils Area and its location is shown on Figure 2.

Area 2 - An area where soils contained trichloroethylene (TCE) located outside the northeast corner of the former Accurate Die Casting facility as shown on Figure 2.

Area 3 - Overburden ground water containing TCE above NYSDEC ground water quality standards.

Area 4 - Shallow bedrock ground water containing TCE above NYSDEC ground water quality standards.

Area 5 - An abandoned septic tank, located as shown on Figure 2, containing sludge exhibiting concentrations of zinc above NYSDEC standards.

Remediation activities completed:

Area 1 - Unsaturated soils exhibiting concentrations of PAHs, PCBs and VOCs above remedial action objectives (RAOs) in the northwest area of the site were excavated during September and October 1995. After excavating approximately 600 cy of soil, grab samples were collected from the excavations and analyzed for PAHs, VOCs and PCBs to evaluate if further action was required. Based on the results of the sampling and analyses, it was concluded that the unsaturated soils containing PAHs, PCBs and VOCs above the RAOs had been removed to the extent practicable.

In 1997, approximately 350 cy of the 600 cy of excavated soil was removed from the site and transported to the ESMI facility in Fort Edward, New York for low temperature thermal destruction and subsequent off-site disposal. The remaining 250 cy of soil was mechanically processed on-site to enhance volatilization of VOCs in accordance with the ROD amendment issued in October 1997.

In April 1998, following analyses that indicated that the RAOs had been achieved, the 250 cy of mechanically processed soils were spread on-site in the Corrective Action Management Unit (CAMU) identified in the ROD amendment. In accordance with the NYSDEC requirements, approximately 1 foot of general fill, topsoil, and grass seed was placed on top of the processed soils.

Pursuant to ESD Notice, in August 1998 construction plans for the installation of a ground water collection trench to collect ground water containing VOCs in Area 1 were submitted to the NYSDEC for review. The proposed location of the collection trench is shown on Figure 2. Pursuant to an Explanation of Significant Differences (ESD) notice dated October 1998, the plans were approved with modifications. Completion of construction activities will occur in 1999. Collected ground water will be treated at the existing on-site treatment system.

Area 2 - The area outside the northeast corner of the facility was addressed as part of an Interim Remedial Measure (IRM) between May 24 and June 22, 1994. During that period, soils exhibiting TCE above the RAO of 0.7 mg/kg were removed, to the extent practicable. Afterwards, the soil was mechanically processed on-site to enhance volatilization of the VOCs until residual levels were documented to be below the RAOs. Following achievement of the RAOs, the soils were used to backfill the excavation. A description of the soil remediation activities completed in this area is provided in the NYSDEC-approved Soil Remediation Activities Summary Report dated October 1994.

Area 3 - As part of the IRM which addressed the soils outside the northeast corner of the facility, a ground water collection sump was constructed within the excavation (Figure 2). The sump extends to the clay layer which was found to be present at the base of the excavation made during the soil remediation activities. This sump is being utilized as one of the ground water recovery points for the ground water recovery and treatment system constructed at the Site to address the shallow/overburden ground water.

Also, an overburden recovery well designated as RW-1 (Figure 2) was constructed on-site as part of the IRM. A 24-hour aquifer performance test was conducted using this recovery well on September 28 and 29, 1994 to evaluate the overburden aquifer characteristics and to assess the influence of pumping on the overburden aquifer. The results of the performance test are provided in the NYSDEC-approved Basis of Design Report for the System dated December 1994. This recovery well is being utilized to collect ground water containing TCE in the overburden aquifer downgradient of the northeast corner of the facility.

Recovery and treatment of overburden ground water using the sump and RW-1 has been ongoing since February 5, 1996 and is continuing.

Area 4 - A second ground water recovery well, designated as RW-2, is being utilized on-site to recover ground water containing VOCs from the shallow bedrock in the vicinity of the northeast corner of the facility (Figure 2). This well was installed between September 5 and 18, 1995, in accordance with the NYSDEC-approved Remedial Design/Remedial Action (RD/RA) Work

Plan dated March 1995 and the letter from O'Brien & Gere dated May 26, 1995, as amended on July 17, 1995. An aquifer performance test was conducted using this recovery well between November 7 and 13, 1995. The results of the performance test were provided to the NYSDEC in a letter report dated January 12, 1996.

Recovery and treatment of shallow bedrock ground water using RW-2 was initiated on February 5, 1996 and is continuing.

Area 5 - During 1995, the septic tank was uncovered and the contents were removed and disposed of at an off-site NYSDEC-approved landfill. Once the contents were removed, the walls of the septic tank were cleaned using a pressure-washer. The spent washing liquid was collected and treated on-site using the ground water treatment system. Subsequent to decontaminating the floor and walls of the septic tank, the concrete vault was filled and buried, completing remediation of this area.

Ground water recovery and treatment system:

The ground water recovery and treatment system is currently recovering ground water from the sump, RW-1, and RW-2. Upon completion, water collected by the ground water collection trench will also be treated at the on-site treatment system. Ground water collection and treatment will continue until VOC levels in the ground water are below NYSDEC ground water quality standards, or until such a time that asymptotic levels have been achieved and further reduction in VOC levels in ground water is not practicable.

The ground water recovered from the sump and the two recovery wells is being treated through two 1,500 lb granular activated carbon (GAC) vessels, connected in series, in accordance with the Basis of Design Report dated December 1994. Prior to being pumped through the GAC filters, the ground water from each of the individual recovery wells is combined in a 2,000 gallon flow equalization tank and pumped through two 10-micron bag filters connected in parallel.

A flow meter for each recovery well is provided on the influent lines to the equalization tank. The tank is also equipped to be used as an aeration tank to pretreat the recovered ground water for VOCs prior to GAC filtration, if necessary.

Following treatment by the GAC, the treated ground water is discharged to the bank of Bishop Brook, as shown on Figure 2, to increase dissolved oxygen levels of the effluent prior to entering the brook. Discharge of treated ground water to Bishop Brook is monitored for compliance with the conditions of the SPDES Permit as discussed in the Operation and Maintenance (O&M) Manual dated August 1996.

2. SYSTEM PERFORMANCE

Operation of the ground water recovery and treatment system was initiated on February 5, 1996. The System has run continuously since start-up with the exception of brief periods when maintenance activities were performed. Between December 1, 1997 and December 1, 1998, a total of 6,856,820 gallons of ground water were

recovered and treated. A summary of the quantity of water pumped each month and the percentage of the total flow contribution from each recovery well and the sump is presented in the following table:

Month	RW-1		RW-2		Sump		Total Gallons
December 1997	357,600	80%	91,530	20%	100	<1%	449,230
January 1998	404,000	70%	161,680	28%	10,070	2%	574,750
February 1998	402,280	67%	193,830	32%	1,970	<1%	598,080
March 1998	459,890	66%	231,590	33%	5,130	1%	696,610
April 1998	437,440	66%	224,560	34%	150	<1%	662,150
May 1998	410,630	67%	203,400	33%	720	<1%	614,750
June 1998	347,060	65%	182,710	34%	2,650	<1%	532,420
July 1998	377,460	63%	215,240	36%	3,350	1%	596,050
August 1998	363,980	63%	212,450	37%	3,230	1%	579,660
September 1998	343,380	64%	190,140	35%	2,850	1%	536,370
October 1998	332,860	69%	146,430	30%	1,090	<1%	480,380
November 1998	343,380	64%	190,140	35%	2,850	1%	536,370
Total	4,578,960	67%	2,243,700	33%	34,160	<1%	6,856,820

Source: O'Brien & Gere Technical Services

A graph depicting the total monthly volumes recovered and treated since startup is presented in Attachment 1. As indicated from the graph, the monthly volumes have been decreasing since the 3rd quarter1997. The decrease may be attributed to the decrease in the efficiency of the recovery well RW-1 which is discussed further under *Ground Water Elevation Assessment* in Section 3 of this report.

Treatment system performance monitoring:

System monitoring has been performed in accordance with the SPDES Fact Sheet (#734052) permit as last modified by the NYSDEC on November 13, 1997, and the SAP as modified by a letter to the NYSDEC dated April 1, 1997. In addition to the SPDES monitoring requirements for the System effluent, the ground water monitoring program includes a monthly System influent sample for VOCs analysis to enable an evaluation of the VOC loading of the GAC. A sample is also collected between the lead and lag GAC vessels (intermediate sample) monthly for VOCs analysis to enable an evaluation of breakthrough through the lead GAC vessel. The monthly System influent and intermediate samples are analyzed for VOCs using EPA Method 8010/8020, and the effluent samples are analyzed for VOCs using EPA Method 8260. The current monitoring requirements of the SPDES permit, including the discharge limitation daily average, the discharge limitation daily maximum, the minimum measurement frequency, and the sample type for each analyte, are presented on Table 1 along with the results of analyses. Based on the treatment system effluent monitoring data, the System is treating recovered ground water in accordance with the ROD.

To date, TCE has been the only compound detected in the influent. A graph showing monthly influent TCE concentrations is included in Attachment 2. As indicated on the graph, influent TCE concentrations have generally decreased since the commencement of recovery operations. Based on the total monthly gallons recovered and monthly influent TCE concentrations, approximately 243 lbs of TCE has been removed from ground water since the commencement of ground water treatment system operations.

Treatment system maintenance activities:

The treatment system maintenance activities have included the periodic replacement of spent GAC and the replacement of bag filters. Spent carbon was shipped as hazardous waste to Calgon Corp. in Catlesburg, KY for reactivation.

A summary of maintenance activities for the reporting period is provided below.

- January 6, 1998 — Changed west bag filter.
- February 3, 1998 — Changed east bag filter.
- March 2, 1998 — Replaced carbon in GAC #1 and adjusted valve positions to put GAC #2 in the lead position.
- May 15, 1998 — Changed west bag filter. More silt accumulation observed.
- May 26, 1998 — Replaced blown fuse in RW-2 power supply.
- June 2, 1998 — Replaced carbon in GAC #2 and adjusted valve positions to put GAC #1 in the lead position.
- August 17, 1998 — Changed west bag filter.
- November 9, 1998 — Replaced carbon in GAC #1 and adjusted valve positions to put GAC #2 in the lead position. Replaced the east bag filter.

3. GROUND WATER MONITORING

Ground water quality monitoring was completed in April and October 1998. The purpose of the ground water monitoring program is to:

- evaluate the zone of capture for the overburden (RW-1) and bedrock (RW-2) recovery wells
- assess the volatile organic compound (VOC) concentrations within the overburden and bedrock ground water, and assess when the criteria for discontinuing pumping have been met
- monitor and assess ground water quality in the PCB/PAH/VOC Soils Area

On November 5, 1998, at the request of the NYSDEC, ITT Industries installed a shallow ground water monitoring well (MW-24) downgradient of existing well MW-21 and the proposed ground water collection trench location in the vicinity of the PCB/PAH/VOC Soils Area. The locations of MW-24 as well as the proposed ground water collection trench are shown on Figure 2.

Ground Water Elevation Assessment

Ground water elevation monitoring was performed during each semi-annual sampling event in April and October 1998 to assess the extent of influence attributable to pumping the overburden (RW-1) and shallow bedrock (RW-2) ground water recovery wells, as well as seasonal influences. The well construction details and ground water elevations measured through October 1998 are summarized in Table 2. Overburden and bedrock ground water elevations and drawdown measured since startup through October 1998 are illustrated on graphs included in Attachment 2.

Seasonal elevation fluctuations depicted on the ground water elevation graphs are consistent with previous data. Review of the bedrock drawdown graphs (Attachment 2) indicated that the drawdown in the bedrock aquifer is consistent with previous results.

Review of the overburden drawdown graphs (Attachment 2) shows an increasing difference in drawdown between recovery well RW-1 and the overburden aquifer monitoring wells. The increasing difference indicates that the recovery well may be becoming less efficient. The apparent reduced recovery well efficiency would result in a reduced area of drawdown, and subsequently a reduced capture zone within the overburden aquifer. The reduced recovery well efficiency may likely be due to clogging and/or encrustation in the recovery well screen. The recovery well efficiency should be restored through physical and potentially chemical redevelopment techniques to reduce encrustation in the recovery well screen.

A capture zone assessment based on ground water elevation contours for October 1998 (Figure 3) was not attempted due to the apparent inefficiency of recovery well RW-1. As indicated in the first Annual Report dated February 5, 1997, it was estimated that the extent of ground water capture around RW-1 in the overburden aquifer ranges between a distance of 100 ft under low ground water elevation conditions, and 150 ft under high conditions.

Overburden ground water elevation data in the PAH/VOC/PCB Soils Area was not included in the ground water contour because the wells in this area screen a shallow aquifer unit that is hydrogeologically distinct from the unit screened by the remaining site overburden monitoring wells. However, shallow ground water flow direction in the PAH/VOC/PCB Soils Area is north, towards Bishop Brook, based on the ground water elevations in this vicinity.

Ground Water Quality Assessment

Ground water samples were collected in accordance with the NYSDEC-approved SAP dated March 1996 and analyzed for VOCs to evaluate ground water quality. Table 3 presents a summary of TCE concentrations and

Table 4 presents a summary of other VOCs detected in the ground water. Graphs depicting TCE concentration trends are included in Attachment 3.

The following observations are based on the data:

- The TCE concentrations in site ground water exhibit seasonal variations with higher TCE concentrations observed during the months with low ground water elevation (July and October), and lower TCE concentrations observed during the months with higher ground water elevation (January and April).

- TCE concentrations in well MW-9 exhibit a higher seasonal variation since the commencement of ground water recovery. TCE concentrations in well MW-14 exhibit an overall uptrend since the commencement of ground water quality monitoring. TCE concentrations in MW-12 exhibit a decrease. Concentrations in MW-5 and MW-13 have remained consistent with previous data.

- TCE concentrations in MW-6, PZ-1, and PZ-2 have decreased since the commencement of ground water recovery operations which demonstrates that recovery well RW-1 is reducing downgradient migration.

- TCE concentrations in the PAH/VOC/PCB Soils Area are consistent with previous data. Concentrations in MW-22 have increased since monitoring has commenced, but appear to have stabilized. Constituents detected in well MW-24 included cis, 1,2-Dichloroethylene at 2,600 ppb and trichloroethylene at 6,000 ppb. It is expected that the concentrations in MW-24 will decrease subsequent to the installation of the ground water collection trench.

- TCE concentrations in the bedrock aquifer have stabilized since 1997.

5. CONCLUSIONS

Below is a summary of observations based on the data presented herein.

1. An additional 6,856,820 gallons of combined overburden and bedrock ground water has been recovered and treated between December 1, 1997 and December 1, 1998. The monthly ground water recovery volumes have been decreasing since the 3rd quarter1997. The decrease may be attributed to a decrease in the efficiency of the recovery well.

2. Based on the treatment system effluent monitoring data, the GAC vessels are treating recovered ground water in accordance with the ROD.

3. The extent of ground water capture in the overburden aquifer is likely reduced due to the reduced efficiency of recovery well RW-1.

4. Ground water quality data trends continue to suggest seasonal variations with higher TCE concentrations typically noted in the months with low ground water elevation (July and October) and lower TCE concentrations in months with higher ground water elevation (January and April).

6. RECOMMENDATIONS

Following are recommendations based on the results of monitoring performed between December 1997 and December 1, 1998.

1. Ground water quality monitoring should continue to be performed on an annual basis in accordance with the SAP for all the existing monitoring wells on site during October. On a semi-annual basis, during the month of April, ground water samples should continue to be collected from monitoring wells MW-6, MW-9, MW-10, MW-11, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-24, and the sump in accordance with the May 21, 1997 letter to the NYSDEC and the protocol presented in the SAP.

2. Recovery well RW-1 should be redeveloped to reduce encrustation in the recovery well screen and increase well efficiency.

If you have any questions regarding the information presented herein, please do not hesitate to call Al Farrell or me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

James R. Heckathorne, P.E.
Vice President

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

Analyte (units)	Monitoring Requirements				Effluent	Effluent	Effluent	Effluent
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type	11/04/97	11/05/97	11/06/97	11/11/97
Flow (GPD)	Monitor	150000	Continuous	Meter	15433	---	15450	15550
pH (SU)	6.5 - 8.5		2/Week	Grab	7.56	---	7.54	7.56
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	1100	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.02	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 11/12/97	Effluent 11/13/97	Effluent 11/18/97	Effluent 11/19/97	Effluent 11/20/97	Effluent 11/25/97	Effluent 12/02/97	Effluent 12/03/97
Flow (GPD)	---	15530	15683	---	15631	15400	15300	---
pH (SU)	---	7.56	7.54	---	7.54	7.56	7.56	---
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	1100	---	---	1100	---	1200	---	1100
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	7.7	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01	---	---	---	0.02
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	0.50 U
Acetone (ug/L)	---	---	---	10 U	---	---	---	10
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 12/04/97	Effluent 12/09/97	Effluent 12/10/97	Effluent 12/11/97	Effluent 12/16/97	Effluent 12/17/97	Effluent 12/18/97	Effluent 12/23/97
Flow (GPD)	15440	15494	---	15810	15620	---	15320	15420
pH (SU)	7.56	7.58	---	7.58	7.6	---	7.6	7.58
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	---	---	1100	---	---	1100	---	1100
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	9.07	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.04	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 12/30/97	Effluent 01/06/98	Effluent 01/07/98	Effluent 01/08/98	Effluent 01/13/98	Effluent 01/14/98	Effluent 01/15/98	Effluent 01/20/98
Flow (GPD)	15450	17630	---	17865	19584	---	20198	20310
pH (SU)	7.58	7.61	---	7.61	7.61	---	7.61	7.61
Residue, non-filterable (mg/L)	5 U	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	1200	---	1000	---	---	970	---	---
CBOD5 (mg/L)	---	---	5 U	---	---	---	---	---
TKN (mg/L)	---	---	0.5	---	---	---	---	---
TOD (mg/L)	---	---	9.75 J	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	9.69	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	0.1 U	---	---	---	---	---
Antimony, total (mg/L)	---	---	0.06 U	---	---	---	---	---
Chromium, total (mg/L)	---	---	0.01 U	---	---	---	---	---
Cobalt, total (mg/L)	---	---	0.01 U	---	---	---	---	---
Copper, total (mg/L)	---	---	0.02	---	---	---	---	---
Iron, total (mg/L)	---	---	0.05 U	---	---	---	---	---
Lead, total (mg/L)	---	---	0.005 U	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	0.05 U	---	---	---	---	---
Silver, total (mg/L)	---	---	0.01 U	---	---	---	---	---
Vanadium, total (mg/L)	---	---	0.03 U	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.02	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 01/21/98	Effluent 01/22/98	Effluent 01/27/98	Effluent 01/28/98	Effluent 01/29/98	Effluent 02/03/98	Effluent 02/04/98	Effluent 02/05/98
Flow (GPD)	---	20198	20744	---	20723	20580	---	20765
pH (SU)	---	7.63	7.63	---	7.61	7.61	---	7.63
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	1000	---	---	960	---	---	1000	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	0.0002 U	---	---	---	---	---	0.0002 U	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	0.03	---	---	---	---	---	0.03	---
cis-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Methylene chloride (ug/L)	2.0 U	---	---	---	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Tetrachloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Toluene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Trichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Acetone (ug/L)	10 U	---	---	---	---	---	10 U	---
2-Hexanone (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 02/10/98	Effluent 02/11/98	Effluent 02/12/98	Effluent 02/17/98	Effluent 02/18/98	Effluent 02/19/98	Effluent 02/25/98	Effluent 02/26/98
Flow (GPD)	20452	---	20480	20321	20530	20817	---	20722
pH (SU)	7.63	---	7.61	7.63	7.65	7.63	---	7.65
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	960	---	---	920	---	920	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	8.29	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.05	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 03/03/98	Effluent 03/04/98	Effluent 03/05/98	Effluent 03/10/98	Effluent 03/11/98	Effluent 03/12/98	Effluent 03/17/98	Effluent 03/18/98
Flow (GPD)	22150	---	20910	21731	---	21062	22110	---
pH (SU)	8.16	---	7.89	7.76	---	7.71	7.69	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	960	---	---	980	---	---	890
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	8.33	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.01 U	---	---	---	---	---	0.01 U
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 03/19/98	Effluent 03/24/98	Effluent 03/25/98	Effluent 03/26/98	Effluent 03/31/98	Effluent 04/01/98	Effluent 04/02/98	Effluent 04/07/98
Flow (GPD)	22390	22160	---	22111	22480	---	21879	21527
pH (SU)	7.63	7.61	---	7.63	7.63	---	7.65	7.61
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	890	---	---	910	---	---
CBOD5 (mg/L)	---	---	---	---	---	5 U	---	---
TKN (mg/L)	---	---	---	---	---	0.4 U	---	---
TOD (mg/L)	---	---	---	---	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	8.83	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	0.1 U	---	---
Antimony, total (mg/L)	---	---	---	---	---	0.06 U	---	---
Chromium, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Cobalt, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Copper, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Iron, total (mg/L)	---	---	---	---	---	0.05 U	---	---
Lead, total (mg/L)	---	---	---	---	---	0.005 U	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	0.05 U	---	---
Silver, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Vanadium, total (mg/L)	---	---	---	---	---	0.03 U	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 04/08/98	Effluent 04/09/98	Effluent 04/14/98	Effluent 04/15/98	Effluent 04/16/98	Effluent 04/21/98	Effluent 04/22/98	Effluent 04/23/98
Flow (GPD)	---	21630	21226	---	21080	21246	---	21485
pH (SU)	---	7.65	7.65	---	7.63	7.65	---	7.65
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	1100	---	---	910	---	---	940	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.03	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 04/28/98	Effluent 04/29/98	Effluent 04/30/98	Effluent 05/05/98	Effluent 05/07/98	Effluent 05/12/98	Effluent 05/13/98	Effluent 05/14/98
Flow (GPD)	21170	---	21100	20880	20740	20880	---	20498
pH (SU)	7.67	---	7.65	7.61	7.65	7.67	---	7.65
Residue, non-filterable (mg/L)	---	5 U	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	980	---	850	---	---	920	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	10.72	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 05/19/98	Effluent 05/20/98	Effluent 05/21/98	Effluent 05/26/98	Effluent 05/27/98	Effluent 05/28/98	Effluent 06/02/98	Effluent 06/03/98
Flow (GPD)	20620	---	20350	15504	---	19867	19784	---
pH (SU)	7.65	---	7.67	7.62	---	7.69	7.72	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	990	---	---	860	---	---	1000
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	8.14
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.01 U	---	---	---	---	---	0.02
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 06/04/98	Effluent 06/09/98	Effluent 06/10/98	Effluent 06/11/98	Effluent 06/16/98	Effluent 06/17/98	Effluent 06/18/98	Effluent 06/23/98
Flow (GPD)	19700	19350	---	19200	18470	---	18313	18930
pH (SU)	7.98	7.82	---	7.78	7.72	---	7.71	7.70
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	980	---	---	950	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.34	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 06/24/98	Effluent 06/25/98	Effluent 06/30/98	Effluent 07/01/98	Effluent 07/02/98	Effluent 07/07/98	Effluent 07/08/98	Effluent 07/09/98
Flow (GPD)	---	18250	19930	---	19230	19158	---	19480
pH (SU)	---	7.72	7.72	---	7.72	7.71	---	7.71
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	990	---	---	950	---	---	880	---
CBOD5 (mg/L)	---	---	---	5 U	---	---	---	---
TKN (mg/L)	---	---	---	0.4 U	---	---	---	---
TOD (mg/L)	---	---	---	9.3 U	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	7.62	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	0.1 U	---	---	---	---
Antimony, total (mg/L)	---	---	---	0.06 U	---	---	---	---
Chromium, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Cobalt, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Copper, total (mg/L)	---	---	---	0.02	---	---	---	---
Iron, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Lead, total (mg/L)	---	---	---	0.005 U	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	0.05 U	---	---	---	---
Silver, total (mg/L)	---	---	---	0.01 U	---	---	---	---
Vanadium, total (mg/L)	---	---	---	0.03 U	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.05	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	2.5	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 07/14/98	Effluent 07/15/98	Effluent 07/16/98	Effluent 07/21/98	Effluent 07/22/98	Effluent 07/23/98	Effluent 07/28/98	Effluent 07/29/98
Flow (GPD)	19110	---	19085	19010	---	19160	19060	---
pH (SU)	7.72	---	7.72	7.72	---	7.71	7.71	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	1200	---	---	1000	---	---	1000
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.06	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	---
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	---
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Acetone (ug/L)	---	10 U	---	---	---	---	---	---
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 07/30/98	Effluent 08/04/98	Effluent 08/05/98	Effluent 08/06/98	Effluent 08/11/98	Effluent 08/12/98	Effluent 08/13/98	Effluent 08/18/98
Flow (GPD)	19085	19025	---	18916	18730	---	18489	18605
pH (SU)	7.72	7.72	---	7.71	7.69	---	7.72	7.72
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	910	---	---	900	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	7.31	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.09	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 08/19/98	Effluent 08/20/98	Effluent 08/25/98	Effluent 08/26/98	Effluent 08/27/98	Effluent 09/01/98	Effluent 09/02/98	Effluent 09/03/98
Flow (GPD)	---	18557	19070	---	18450	18550	---	18443
pH (SU)	---	7.72	7.72	---	7.72	7.72	---	7.72
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	910	---	---	880	---	---	960	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	10.79
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	0.0002 U	---	---	---	---	---	0.0002 U	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	0.02	---	---	---	---	---	0.02	---
cis-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Methylene chloride (ug/L)	2.0 U	---	---	---	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Tetrachloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Toluene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Trichloroethene (ug/L)	0.50 U	---	---	---	---	---	0.50 U	---
Acetone (ug/L)	10 U	---	---	---	---	---	10 U	---
2-Hexanone (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	5.0 U	---	---	---	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 09/08/98	Effluent 09/09/98	Effluent 09/10/98	Effluent 09/15/98	Effluent 09/16/98	Effluent 09/17/98	Effluent 09/22/98	Effluent 09/23/98
Flow (GPD)	18336	---	18806	17916	---	17710	17860	---
pH (SU)	7.72	---	7.72	7.74	---	7.70	7.72	---
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	950	---	---	940	---	---	1100
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.02	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 09/24/98	Effluent 09/29/98	Effluent 09/30/98	Effluent 10/01/98	Effluent 10/06/98	Effluent 10/07/98	Effluent 10/08/98	Effluent 10/13/98
Flow (GPD)	17590	17098	---	16860	16268	---	16200	16020
pH (SU)	7.74	7.74	---	7.74	7.76	---	7.74	7.76
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	900	---	---	990	---	---
CBOD5 (mg/L)	---	---	---	---	---	5 U	---	---
TKN (mg/L)	---	---	---	---	---	0.4 U	---	---
TOD (mg/L)	---	---	---	---	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	10.44	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	0.1 U	---	---
Antimony, total (mg/L)	---	---	---	---	---	0.06 U	---	---
Chromium, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Cobalt, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Copper, total (mg/L)	---	---	---	---	---	0.03	---	---
Iron, total (mg/L)	---	---	---	---	---	0.05 U	---	---
Lead, total (mg/L)	---	---	---	---	---	0.005 U	---	---
Mercury, total (mg/L)	---	---	---	---	---	0.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---	---	0.05 U	---	---
Silver, total (mg/L)	---	---	---	---	---	0.01 U	---	---
Vanadium, total (mg/L)	---	---	---	---	---	0.03 U	---	---
Zinc, total (mg/L)	---	---	---	---	---	0.04	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Methylene chloride (ug/L)	---	---	---	---	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	---	0.50 U	---	---
Tetrachloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Toluene (ug/L)	---	---	---	---	---	0.50 U	---	---
Trichloroethene (ug/L)	---	---	---	---	---	0.50 U	---	---
Acetone (ug/L)	---	---	---	---	---	10 U	---	---
2-Hexanone (ug/L)	---	---	---	---	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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ENGINEERS, INC.

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

Analyte	Effluent 10/14/98	Effluent 10/15/98	Effluent 10/20/98	Effluent 10/21/98	Effluent 10/22/98	Effluent 10/27/98	Effluent 10/28/98	Effluent 10/29/98
Flow (GPD)	---	16020	15740	---	15550	15280	---	15510
pH (SU)	---	7.76	7.76	---	7.74	7.76	---	7.76
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	1100	---	---	1000	---	---	1000	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.02	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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

Analyte	Effluent 11/03/98	Effluent 11/04/98	Effluent 11/05/98	Effluent 11/10/98	Effluent 11/11/98	Effluent 11/12/98	Effluent 11/17/98	Effluent 11/18/98
Flow (GPD)	14922	---	14780	14410	---	14230	14110	---
pH (SU)	7.76	---	7.74	7.81	---	8.08	7.90	---
Residue, non-filterable (mg/L)	---	5 U	---	---	8	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	980	---	---	1300	---	---	1000
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	9.38	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	0.0002 U
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.04	---	---	---	---	---	0.02
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	2.0 U
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	0.50 U
Acetone (ug/L)	---	10 U	---	---	---	---	---	10 U
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	5.0 U

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

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ENGINEERS, INC.

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

Analyte	Effluent 11/19/98	Effluent 11/24/98
Flow (GPD)	13940	13690
pH (SU)	7.85	7.79
Residue, non-filterable (mg/L)	---	5 U
Total dissolved solids (TDS) (mg/L)	---	1100
CBOD5 (mg/L)	---	---
TKN (mg/L)	---	---
TOD (mg/L)	---	---
Dissolved Oxygen (mg/L)	---	---
Aluminum, dissolved (mg/L)	---	---
Antimony, total (mg/L)	---	---
Chromium, total (mg/L)	---	---
Cobalt, total (mg/L)	---	---
Copper, total (mg/L)	---	---
Iron, total (mg/L)	---	---
Lead, total (mg/L)	---	---
Mercury, total (mg/L)	---	---
Nickel, total (mg/L)	---	---
Silver, total (mg/L)	---	---
Vanadium, total (mg/L)	---	---
Zinc, total (mg/L)	---	---
cis-1,2-Dichloroethene (ug/L)	---	---
trans-1,2-Dichloroethene (ug/L)	---	---
Methylene chloride (ug/L)	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---
Tetrachloroethene (ug/L)	---	---
Toluene (ug/L)	---	---
Trichloroethene (ug/L)	---	---
Acetone (ug/L)	---	---
2-Hexanone (ug/L)	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Elevation (ft)	Well Casing Elevation (ft)	Screened Interval Elevation (ft)	Ground Water Elevation (ft) 05/28/92	Ground Water Elevation (ft) 06/26/92	Ground Water Elevation (ft) 08/07/92	Ground Water Elevation (ft) 09/26/94	Ground Water Elevation (ft) 09/27/94	Ground Water Elevation (ft) 10/18/94
MW-01	99.36	101.11	75.4 - 85.4	DRY	DRY	79.69	---	---	DRY
MW-02	91.80	94.68	76.6 - 86.6	83.21	82.81	84.32	83.10	83.28	80.12
MW-03	97.65	99.63	73.7 - 83.7	80.44	80.09	81.63	AB	AB	AB
MW-04	65.62	68.52	46.6 - 56.6	51.08	49.95	50.81	47.22	52.21	46.79
MW-05	88.21	90.42	49.2 - 59.2	60.71	63.76	61.22	59.87	59.91	59.45
MW-06	77.46	79.38	46.4 - 56.4	60.50	60.49	60.46	59.51	59.52	59.05
MW-07 (B)	75.66	78.34	34.3 - 44.3	54.59	54.55	54.47	53.90	53.97	53.55
MW-08	88.21	91.78	53.9 - 63.9	66.38	66.38	66.83	61.59	61.65	60.99
MW-09	102.44	104.03	49.7 - 59.7	60.46	60.51	61.83	59.57	59.59	59.08
MW-10 (B)	97.51	97.27	43.0 - 53.0	61.15	61.99	61.69	---	---	56.02
MW-11 (B)	91.48	93.80	43.1 - 53.1	62.34	63.70	63.66	58.41	58.39	57.47
MW-12	93.62	94.14	51.9 - 61.9	62.24	60.74	62.77	59.77	59.79	59.31
MW-13	98.80	98.70	77.7 - 87.7	DRY	80.62	80.92	---	---	78.70
MW-14	98.76	100.62	74.6 - 84.6	75.11	79.07	81.54	---	---	86.18
MW-15 (B)	96.10	98.90	32.7 - 42.7	NI	NI	NI	---	---	53.47
MW-16 (B)	98.50	100.85	50.8 - 60.8	NI	NI	NI	---	---	61.67
MW-17	66.90	69.24	53.7 - 63.7	NI	NI	NI	54.61	54.61	54.08
MW-18	76.50	78.29	61.5 - 71.5	NI	NI	NI	NI	NI	NI
MW-19	69.50	71.27	46.5 - 56.5	NI	NI	NI	NI	NI	NI
MW-20	70.98	72.89	51.9 - 61.9	NI	NI	NI	NI	NI	NI
MW-21	69.90	71.87	59.5 - 64.5	NI	NI	NI	NI	NI	NI
MW-22	71.50	73.34	60.9 - 65.9	NI	NI	NI	NI	NI	NI
MW-23 (B)	89.80	91.72	17.3 - 22.3	NI	NI	NI	NI	NI	NI
PZ-01	81.80	83.95	49.8 - 59.8	NI	NI	NI	59.56	59.57	59.10
PZ-02	80.60	83.06	42.8 - 52.8	NI	NI	NI	59.35	59.36	58.89
RW-01	78.40	80.28	29.4-39.4 - 45.4-50.4	NI	NI	NI	56.88	56.89	58.22
RW-02 (B)	91.58	95.18	NA - NA	NI	NI	NI	NI	NI	NI
SUMP	NA	97.93	NA - NA	NI	NI	NI	NI	NI	NI

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 11/02/94	Ground Water Elevation (ft) 11/17/94	Ground Water Elevation (ft) 11/30/94	Ground Water Elevation (ft) 12/15/94	Ground Water Elevation (ft) 12/27/94	Ground Water Elevation (ft) 01/13/95	Ground Water Elevation (ft) 01/25/95	Ground Water Elevation (ft) 02/09/95	Ground Water Elevation (ft) 02/23/95
MW-01	---	---	---	---	---	---	---	---	---
MW-02	---	---	---	---	---	---	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	---	---	---	---	---	---	---	---
MW-05	---	---	---	---	---	---	---	---	---
MW-06	---	---	---	---	---	---	---	---	---
MW-07 (B)	---	---	---	---	---	---	---	---	---
MW-08	---	---	---	---	---	---	---	---	---
MW-09	---	---	---	---	---	---	---	---	---
MW-10 (B)	55.07	55.19	54.94	55.19	55.02	54.94	54.95	54.52	54.36
MW-11 (B)	50.01	56.68	55.59	56.63	56.55	55.63	55.63	56.13	55.63
MW-12	---	---	---	---	---	---	---	---	---
MW-13	82.92	78.21	78.21	80.92	78.34	78.25	77.83	77.84	77.75
MW-14	80.12	80.54	80.54	80.20	80.54	80.62	80.45	78.95	79.54
MW-15 (B)	---	---	---	---	---	---	---	---	---
MW-16 (B)	---	---	---	---	---	---	---	---	---
MW-17	---	---	---	---	---	---	---	---	---
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	---	---	---	---
PZ-02	---	---	---	---	---	---	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
SUMP	76.04	74.83	75.00	75.17	74.83	75.00	75.00	74.88	75.00

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 03/09/95	Ground Water Elevation (ft) 04/26/95	Ground Water Elevation (ft) 07/25/95	Ground Water Elevation (ft) 10/17/95	Ground Water Elevation (ft) 02/05/96	Ground Water Elevation (ft) 02/07/96	Ground Water Elevation (ft) 02/15/96	Ground Water Elevation (ft) 02/16/96	Ground Water Elevation (ft) 02/20/96
MW-01	---	DRY	DRY	DRY	77.06	76.64	75.30	DRY	DRY
MW-02	---	83.28	82.42	84.22	84.04	83.87	83.41	83.34	83.15
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	51.44	45.94	50.05	53.60	52.06	55.39	54.43	52.46
MW-05	---	60.34	58.78	---	61.26	61.01	60.80	60.73	60.50
MW-06	---	60.02	58.52	58.10	60.86	60.44	60.41	60.11	59.80
MW-07 (B)	---	54.51	53.27	52.71	55.16	54.67	55.03	54.52	54.45
MW-08	---	63.41	59.82	60.76	66.61	66.40	65.93	65.84	65.47
MW-09	---	60.10	58.56	58.16	60.95	60.70	60.48	60.35	60.07
MW-10 (B)	55.02	57.49	54.60	54.61	62.00	59.88	62.11	60.42	59.96
MW-11 (B)	56.55	58.86	55.72	55.31	62.63	60.37	62.67	60.88	60.35
MW-12	---	60.30	58.76	58.35	61.11	60.83	60.65	60.50	60.21
MW-13	77.67	DRY	DRY	DRY	80.00	79.98	79.91	79.90	79.88
MW-14	80.12	80.61	80.61	80.72	79.91	80.02	80.28	80.29	80.35
MW-15 (B)	---	54.71	51.60	50.47	59.24	59.37	59.79	59.63	59.56
MW-16 (B)	---	63.86	59.41	58.06	67.14	67.17	66.90	66.79	66.57
MW-17	---	59.02	57.71	DRY	60.29	60.17	59.75	59.70	59.52
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	60.08	58.58	58.16	60.92	60.61	60.46	60.28	59.99
PZ-02	---	59.88	58.37	57.97	60.70	60.30	60.26	59.97	59.66
RW-01	---	59.14	57.60	57.11	59.64	55.04	59.22	54.71	54.40
RW-02 (B)	NI	NI	NI	56.05	63.80	59.98	63.83	60.67	60.09
SUMP	78.00	75.09	75.25	76.94	74.67	74.68	74.64	74.63	74.63

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 02/22/96	Ground Water Elevation (ft) 02/29/96	Ground Water Elevation (ft) 03/07/96	Ground Water Elevation (ft) 03/21/96	Ground Water Elevation (ft) 04/04/96	Ground Water Elevation (ft) 04/10/96	Ground Water Elevation (ft) 04/18/96	Ground Water Elevation (ft) 05/02/96	Ground Water Elevation (ft) 06/06/96
MW-01	DRY	75.36	75.17	77.34	DRY	DRY	DRY	77.73	DRY
MW-02	83.32	83.67	83.50	84.24	83.68	83.68	84.86	85.35	83.17
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	60.37	58.14	55.10	59.26	52.66	54.43	60.28	59.70	51.63
MW-05	60.40	60.14	59.73	58.85	58.32	58.14	58.20	58.71	60.54
MW-06	59.75	59.45	58.96	58.02	57.48	57.28	57.41	58.17	59.91
MW-07 (B)	54.58	54.46	54.32	54.29	54.17	54.15	54.32	54.75	55.02
MW-08	65.42	65.12	64.68	64.76	64.10	63.83	64.08	65.43	67.07
MW-09	60.02	59.71	59.22	58.30	57.78	57.59	57.73	58.46	60.18
MW-10 (B)	59.91	59.64	59.43	59.07	58.81	58.72	58.61	59.72	62.25
MW-11 (B)	60.29	59.99	59.78	59.38	59.10	59.01	58.94	60.35	62.68
MW-12	60.16	59.86	59.37	58.44	57.93	57.74	57.86	58.59	60.33
MW-13	79.87	79.86	79.77	79.68	79.60	79.57	79.52	79.44	79.28
MW-14	80.38	80.44	80.45	80.49	80.52	80.55	78.14	79.29	80.56
MW-15 (B)	59.56	59.46	59.40	59.14	59.07	59.04	58.84	59.87	62.62
MW-16 (B)	66.52	66.39	66.17	65.99	65.99	65.90	65.84	67.02	68.40
MW-17	59.64	59.42	59.28	59.30	59.27	59.14	59.30	59.95	59.22
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	72.95
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	59.93	59.63	59.14	58.21	57.67	57.47	57.60	58.34	60.09
PZ-02	59.61	59.33	58.83	57.90	57.39	57.19	57.30	58.04	59.77
RW-01	54.35	54.05	53.58	52.76	52.24	52.03	52.11	52.69	53.82
RW-02 (B)	59.97	59.63	59.41	58.95	58.63	58.52	58.41	59.63	62.56
SUMP	75.30	74.90	74.65	74.87	74.69	74.99	75.89	75.76	74.73

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 07/16/96	Ground Water Elevation (ft) 09/05/96	Ground Water Elevation (ft) 10/21/96	Ground Water Elevation (ft) 11/19/96	Ground Water Elevation (ft) 01/16/97	Ground Water Elevation (ft) 02/04/97	Ground Water Elevation (ft) 04/15/97	Ground Water Elevation (ft) 07/08/97	Ground Water Elevation (ft) 10/22/97
MW-01	DRY	DRY	DRY	76.60	75.15	---	75.64	DRY	DRY
MW-02	83.32	82.57	83.18	84.22	83.56	---	83.81	83.09	82.84
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	52.45	DRY	55.91	55.91	53.12	---	AB	AB	AB
MW-05	58.98	56.33	55.40	56.49	59.15	---	59.83	59.16	58.34
MW-06	58.13	54.95	53.71	55.61	58.39	---	59.34	58.58	57.97
MW-07 (B)	53.95	52.44	51.22	52.68	54.28	---	54.70	52.93	50.63
MW-08	64.50	59.05	59.56	63.61	64.67	---	65.15	61.65	58.90
MW-09	58.38	55.38	54.24	56.64	58.65	---	59.60	58.76	58.00
MW-10 (B)	59.11	53.88	51.06	54.95	59.61	---	58.11	53.44	50.75
MW-11 (B)	59.53	54.72	52.88	55.85	60.15	---	58.59	55.20	52.50
MW-12	58.54	55.48	54.30	56.18	58.81	---	59.72	58.92	58.21
MW-13	79.35	79.15	79.07	80.68	80.49	---	80.33	79.84	79.53
MW-14	80.66	80.59	80.61	80.08	80.59	---	80.53	80.55	80.58
MW-15 (B)	59.24	54.83	51.58	51.99	58.83	---	59.83	56.63	50.48
MW-16 (B)	65.57	63.31	60.09	61.06	66.13	---	66.89	64.43	58.45
MW-17	58.46	57.89	55.96	58.02	59.33	---	59.64	58.33	DRY
MW-18	72.32	70.81	70.77	73.04	73.31	72.78	73.60	71.34	69.71
MW-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	50.26	DRY	DRY	DRY	DRY	---	AB	AB	AB
MW-21	NI	NI	NI	NI	NI	63.69	63.74	63.06	62.93
MW-22	NI	NI	NI	NI	NI	63.69	67.92	67.35	65.96
MW-23 (B)	NI	NI	NI	NI	NI	NI	37.71	35.61	32.29
PZ-01	58.31	55.13	53.90	55.83	58.57	---	59.51	58.70	58.01
PZ-02	57.97	54.90	53.53	55.25	58.23	---	59.13	58.34	57.65
RW-01	51.94	48.05	41.80	47.33	50.74	---	50.30	43.34	42.03
RW-02 (B)	59.14	51.01	42.02	55.39	60.03	---	55.69	44.07	42.89
SUMP	74.78	74.56	74.85	74.77	74.71	---	74.94	75.01	74.75

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 01/29/98	Ground Water Elevation (ft) 04/15/98	Ground Water Elevation (ft) 10/20/98
MW-01	DRY	DRY	DRY
MW-02	83.47	83.52	83.54
MW-03	AB	AB	AB
MW-04	AB	AB	AB
MW-05	60.86	61.05	60.04
MW-06	60.46	60.57	59.69
MW-07 (B)	52.90	53.82	51.76
MW-08	64.98	67.17	59.86
MW-09	60.51	60.56	59.71
MW-10 (B)	55.78	61.08	51.88
MW-11 (B)	56.75	61.73	53.98
MW-12	60.67	60.80	59.89
MW-13	78.87	78.67	78.31
MW-14	80.78	80.78	80.64
MW-15 (B)	56.34	62.10	52.58
MW-16 (B)	65.71	68.03	61.84
MW-17	59.70	59.51	57.93
MW-18	73.50	73.29	70.74
MW-19	DRY	DRY	DRY
MW-20	AB	AB	AB
MW-21	63.82	63.54	63.23
MW-22	68.51	68.39	67.83
MW-23 (B)	34.95	37.95	33.57
PZ-01	60.50	60.61	59.70
PZ-02	60.22	60.34	59.46
RW-01	43.13	32.60	32.36
RW-02 (B)	52.74	59.94	44.33
SUMP	74.89	74.96	75.20

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	08/89 TCE ug/L	12/89 TCE ug/L	05/90 TCE ug/L	05/92 TCE ug/L	07/94 TCE ug/L	10/94 TCE ug/L	02/95 TCE ug/L	04/95 TCE ug/L	07/95 TCE ug/L
MW-01	112	ND	2	ND	---	DRY	---	DRY	DRY
MW-02	ND	ND	1	ND	---	ND	ND	ND	ND
MW-03	Product	>55000	440000	340000	AB	AB	AB	AB	AB
MW-04	---	7	43	6	270	23	13	16	---
MW-05	---	340	344	110	330	410	290	280	---
MW-06	---	700	454	510	390	360	330	280	270
MW-07 (B)	---	ND	ND	ND	ND	ND	ND	ND	ND
MW-08	---	ND	ND	ND	---	ND	ND	ND	ND
MW-09	---	109	106	60	72	74	74	84	75
MW-10 (B)	---	---	---	4500	1600	1300	1400	1200	900
MW-11 (B)	---	---	---	5200	5500	5300	4300	3900	4000
MW-12	---	---	---	36	44	35	33	30	25
MW-13	---	---	---	110	740	510	---	DRY	DRY
MW-14	---	---	---	67	150	120	79	95	140
MW-15 (B)	---	---	---	NI	---	14	11	10	17
MW-16 (B)	---	---	---	NI	---	6	17	7	18
MW-17	---	---	---	NI	260	140	200	130	160
MW-18	---	---	---	NI	NI	NI	NI	NI	NI
MW-19	---	---	---	NI	NI	NI	NI	NI	NI
MW-20	---	---	---	NI	NI	NI	NI	NI	NI
MW-21	---	---	---	NI	NI	NI	NI	NI	NI
MW-22	---	---	---	NI	NI	NI	NI	NI	NI
MW-23 (B)	---	---	---	---	---	---	---	---	---
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	---	---	---	120
PZ-02	---	---	---	---	---	---	---	490	400
RW-01	---	---	---	NI	---	---	---	---	---
RW-02 (B)	---	---	---	NI	NI	NI	NI	NI	NI
SUMP	---	---	---	NI	NI	NI	---	---	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	10/95 TCE ug/L	01/96 TCE ug/L	04/96 TCE ug/L	05/96 TCE ug/L	07/96 TCE ug/L	10/96 TCE ug/L	01/97 TCE ug/L	04/97 TCE ug/L	07/97 TCE ug/L
MW-01	DRY	---	DRY	---	DRY	DRY	---	---	DRY
MW-02	ND	---	---	---	---	ND	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	15	---	---	---	---	62	---	AB	AB
MW-05	---	---	---	---	---	180	---	---	---
MW-06	180	170	110	---	98	71	75	52	---
MW-07 (B)	ND	---	---	---	---	ND	---	---	---
MW-08	ND	---	---	---	---	ND	---	---	---
MW-09	68	100	64	---	65	50	95	83	66
MW-10 (B)	890	900	820	---	960	1700	1900	1200	---
MW-11 (B)	2600	2500	1500	---	1400	1600	1500	800	---
MW-12	29	---	---	---	---	17	---	---	---
MW-13	DRY	---	---	---	---	370	---	---	---
MW-14	78	84	250	---	230	170	390	400	260
MW-15 (B)	7	---	---	---	---	20	---	---	---
MW-16 (B)	20	---	---	---	---	11	---	---	---
MW-17	---	180	350	---	460	300	450	220	150
MW-18	NI	NI	NI	1200	---	2900	850	410	1800
MW-19	NI	NI	NI	---	DRY	DRY	DRY	DRY	DRY
MW-20	NI	NI	NI	70	---	DRY	DRY	AB	AB
MW-21	NI	NI	NI	NI	NI	NI	NI	520	310
MW-22	NI	NI	NI	NI	NI	NI	NI	1	3
MW-23 (B)	---	---	---	---	---	---	---	ND	ND
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	32	---	---	---
PZ-02	---	---	---	---	---	540	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	---	---	---	---	---	---	---	---	---
SUMP	---	170	180	---	1000	---	320	180	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	10/97 TCE ug/L	01/98 TCE ug/L	04/98 TCE ug/L	10/98 TCE ug/L	11/98 TCE ug/L
MW-01	DRY	DRY	DRY	DRY	DRY
MW-02	ND	---	---	ND	---
MW-03	AB	AB	AB	AB	AB
MW-04	AB	AB	AB	AB	AB
MW-05	220	---	---	200	---
MW-06	ND	---	140	92	---
MW-07 (B)	ND	---	---	ND	---
MW-08	---	---	---	ND	---
MW-09	61	140	120	80	---
MW-10 (B)	1300	---	930	880	---
MW-11 (B)	1600	---	920	1100	---
MW-12	19	---	---	22	---
MW-13	760	---	---	480	---
MW-14	560	560	460	400	---
MW-15 (B)	18	---	---	21	---
MW-16 (B)	14	---	---	4	---
MW-17	---	270	800	250	---
MW-18	3100	1000	1100	3600	---
MW-19	DRY	DRY	DRY	DRY	DRY
MW-20	AB	AB	AB	AB	AB
MW-21	450	120	1300	180	---
MW-22	8	5	10	14	---
MW-23 (B)	ND	ND	---	ND	---
MW-24	NI	NI	NI	NI	6000
PZ-01	48	---	---	85	---
PZ-02	420	---	---	250	---
RW-01	---	---	---	---	---
RW-02 (B)	---	---	---	---	---
SUMP	2600	---	560	850	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-04 10/22/96 ug/L	MW-17 04/10/96 ug/L	MW-17 10/22/96 ug/L	MW-17 01/16/97 ug/L	MW-17 04/15/97 ug/L	MW-17 07/08/97 ug/L	MW-17 01/29/98 ug/L	MW-17 10/20/98 ug/L
cis-1,2-Dichloroethene	12	---	7	---	---	---	---	---
Tetrachloroethene	---	20	12	22	15	18	12	17
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-18 10/22/96 ug/L	MW-18 07/08/97 ug/L	MW-18 10/21/98 ug/L	MW-20 05/24/96 ug/L	MW-21 01/21/97 ug/L	MW-21 04/16/97 ug/L	MW-21 07/08/97 ug/L	MW-21 10/23/97 ug/L
cis-1,2-Dichloroethene	81	66	160	46	650	630	770	800
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-21 01/29/98 ug/L	MW-21 04/16/98 ug/L	MW-21 10/21/98 ug/L	MW-22 01/21/97 ug/L	MW-22 04/16/97 ug/L	MW-22 07/08/97 ug/L	MW-22 10/23/97 ug/L	MW-22 01/29/98 ug/L
cis-1,2-Dichloroethene	350	1400	340	5	4	9	22	11
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	3	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

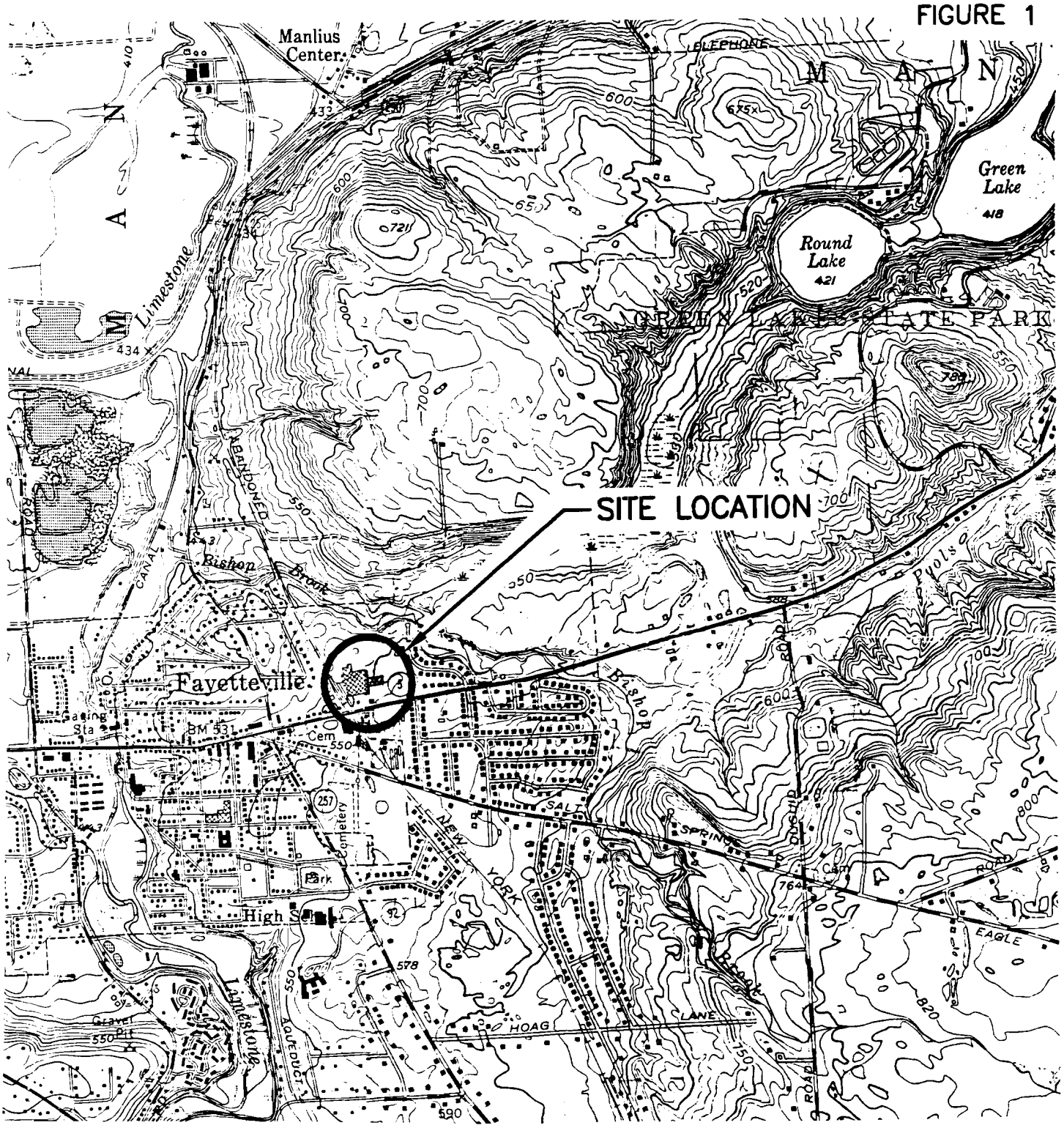
O'BRIEN & GERE
ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-22 04/16/98 ug/L	MW-22 10/21/98 ug/L	MW-24 11/09/98 ug/L
cis-1,2-Dichloroethene	22	35	2600
Tetrachloroethene	---	---	---
Vinyl chloride	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

FIGURE 1



ADAPTED FROM 7.5 MIN. U.S.G.S. SYRACUSE EAST QUAD MAP, SYRACUSE, NEW YORK

STATE LOCATION MAP

ACCURATE DIE CASTING
FAYETTEVILLE, NEW YORK

SITE MAP

FILE NO. 2488.751.020

DATE: DECEMBER 1998 1"=2000'

0 2000 4000

O'BRIEN & GERE ENGINEERS INC.

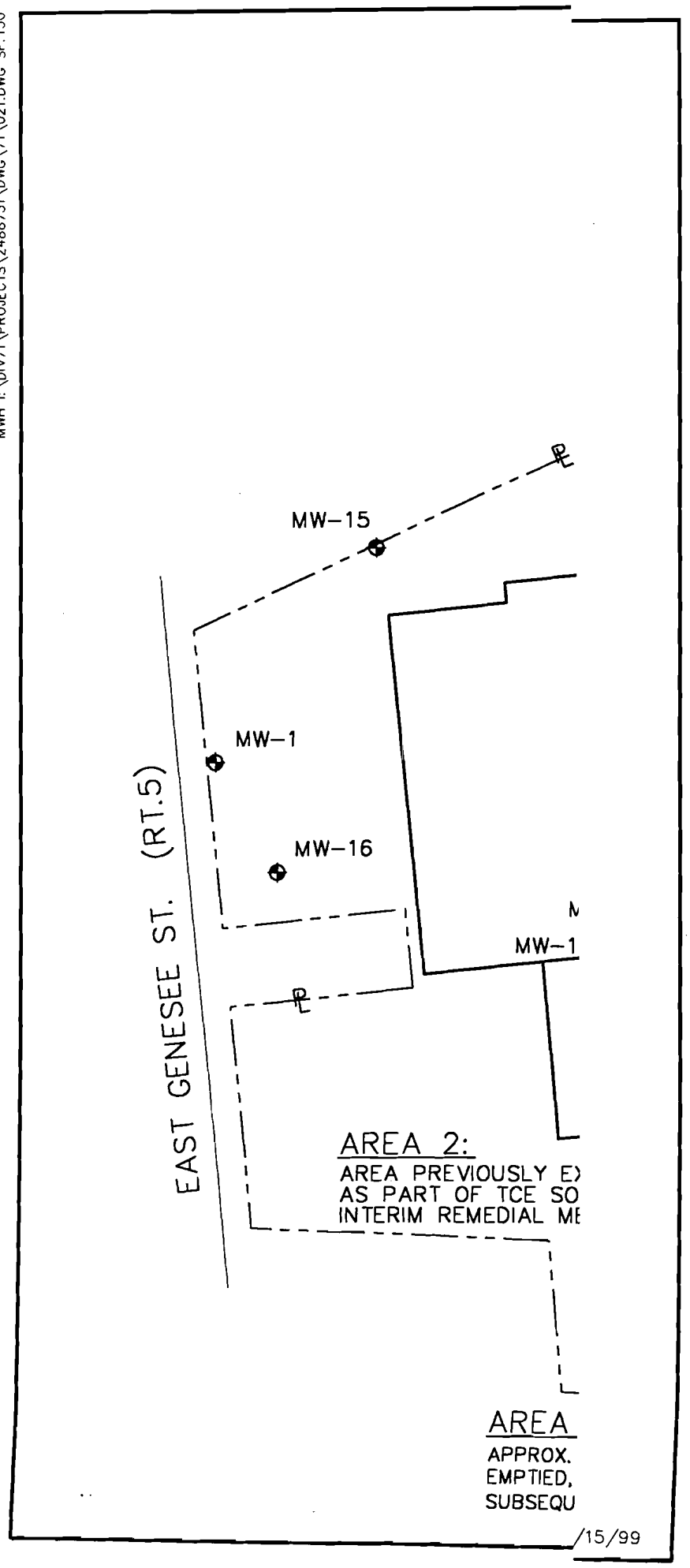
MWH I:\DIV71\PROJECTS\2488751\71\020.DWG SF:1

PLOT DATE:

MWH I:\DIV71\PROJECTS\2488731\DWG\71\021.DWG SF:150

PLOT DATE:

FIGURE 2



LEGEND

— ℄ —	PROPERTY LINE
MW-4 ⊕	MONITORING WELL LOCATION
MW-3 ⊕	FORMER MONITORING WELL LOCATION
RW-1 ◉	OVERBURDEN AQUIFER RECOVERY WELL
RW-2 ◉	BEDROCK GROUND WATER RECOVERY WELL
PZ-1 ●	PIEZOMETER LOCATION

NOTE: MW-24 LOC.

ACCURATE DIE CASTING
FAYETTEVILLE, NEW YORK

SITE PLAN

0 150 300

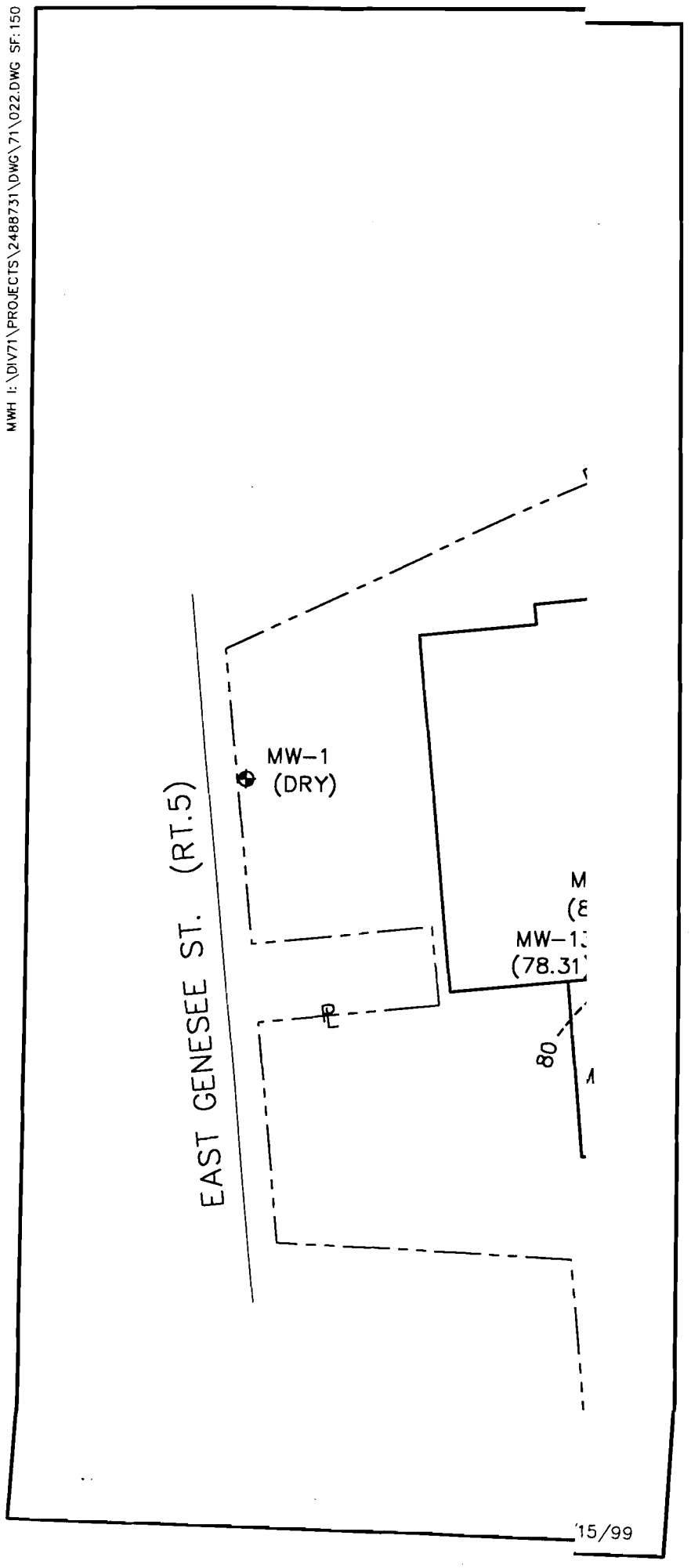
SCALE IN FEET

DATE: JANUARY 1999

FILE NO. 2488.731.021

O'BRIEN & GERE
ENGINEERS INC.

FIGURE 3



LEGEND

—℄—	PROPERTY LINE
MW-1 ⊕	MONITORING WELL LOCATION
MW-4 ⊕	FORMER MONITORING WELL LOCATION
RW-1 ◉	OVERBURDEN AQUIFER RECOVERY WELL
RW-2 ◉	BEDROCK GROUND WATER RECOVERY WELL
PZ-1 ●	PIEZOMETER LOCATION
(58.01)	GROUND WATER ELEVATION IN FT
75	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTE: MW-18, 21 & 22 NOT CONTOURED
MW-24 LOCATION IS APPROXIMATE

ACCURATE DIE CASTING
FAYETTEVILLE, NEW YORK

OVERBURDEN GROUND WATER ELEVATION MAP (10/20/98)

0 150 300
SCALE IN FEET

DATE: JANUARY 1999
FILE NO. 2488.731.022

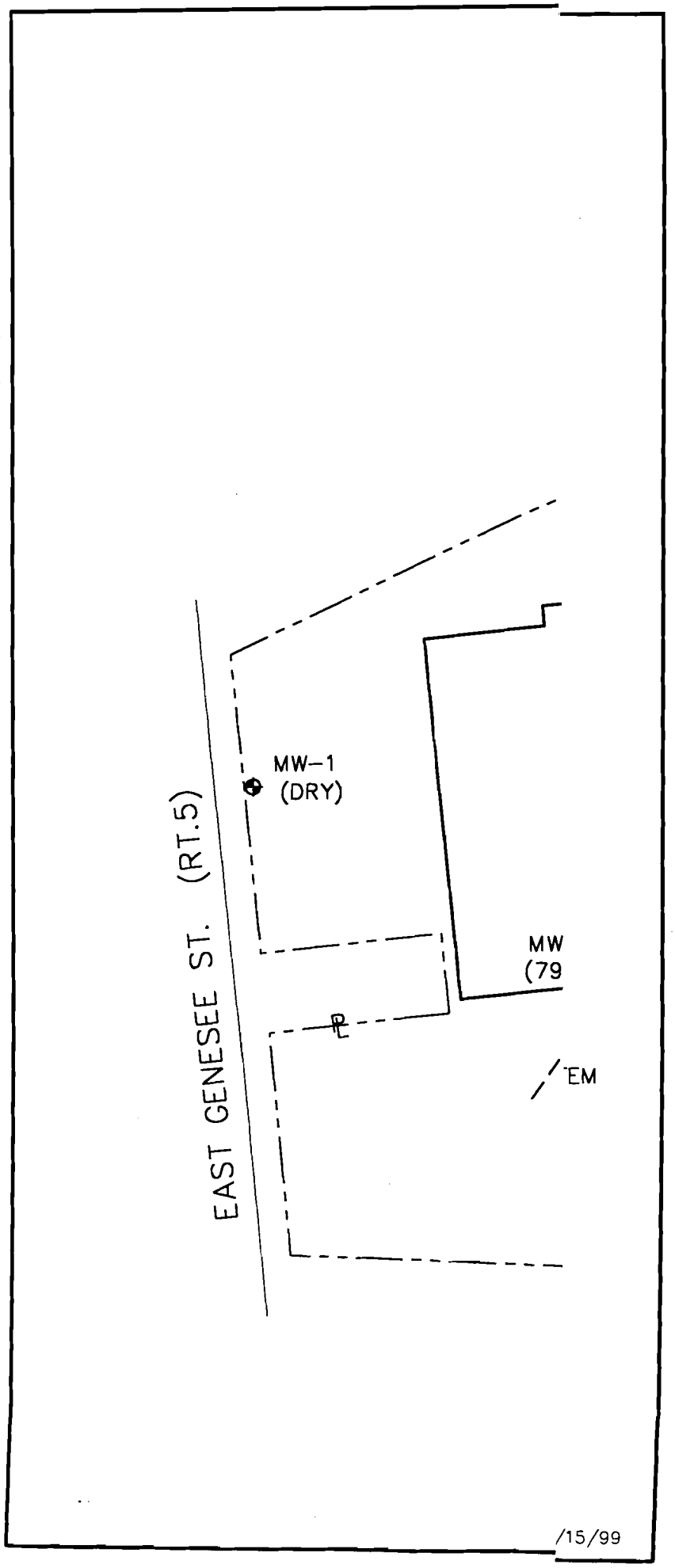
O'BRIEN & GERE
ENGINEERS INC.

MWH I:\DIV71\PROJECTS\2488731\DWG\71\022.DWG SF:150
PLOT DATE: 15/99

MWH I:\DIV71\PROJECTS\2488731\DWG\71\023.DWG SF:150

PLOT DATE:

FIGURE 4



LEGEND

—℄—	PROPERTY LINE
MW-1 ⊕	MONITORING WELL LOCATION
MW-4 ⊕	FORMER MONITORING WELL LOCATION
RW-1 ◉	OVERBURDEN AQUIFER RECOVERY WELL
RW-2 ◉	BEDROCK GROUND WATER RECOVERY WELL
PZ-1 ●	PIEZOMETER LOCATION
(58.01)	GROUND WATER ELEVATION IN FEET
------ 56	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTE: MW-18, 21 & 22 NOT CONTOURED

ACCURATE DIE CASTING
FAYETTEVILLE, NEW YORK

OVERBURDEN GROUND WATER ELEVATION MAP 10/22/97

0 150 300

SCALE IN FEET

DATE: JANUARY 1999

FILE NO. 2488.731.023

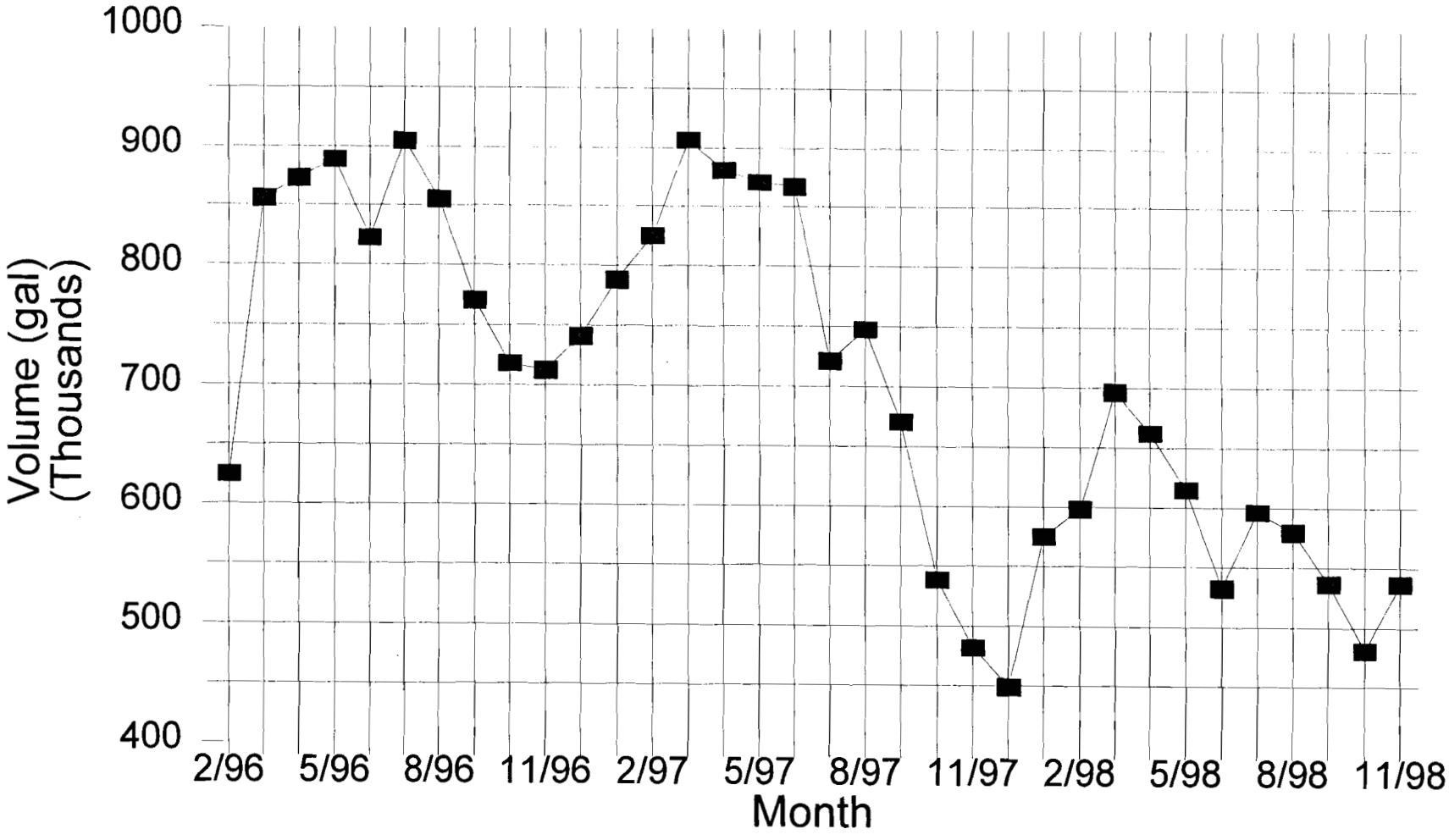
O'BRIEN & GERE ENGINEERS INC.

Attachment 1

Monthly Total Treatment System Volume Graph

Monthly Total Treatment System Volume

Former Accurate Die Casting Site

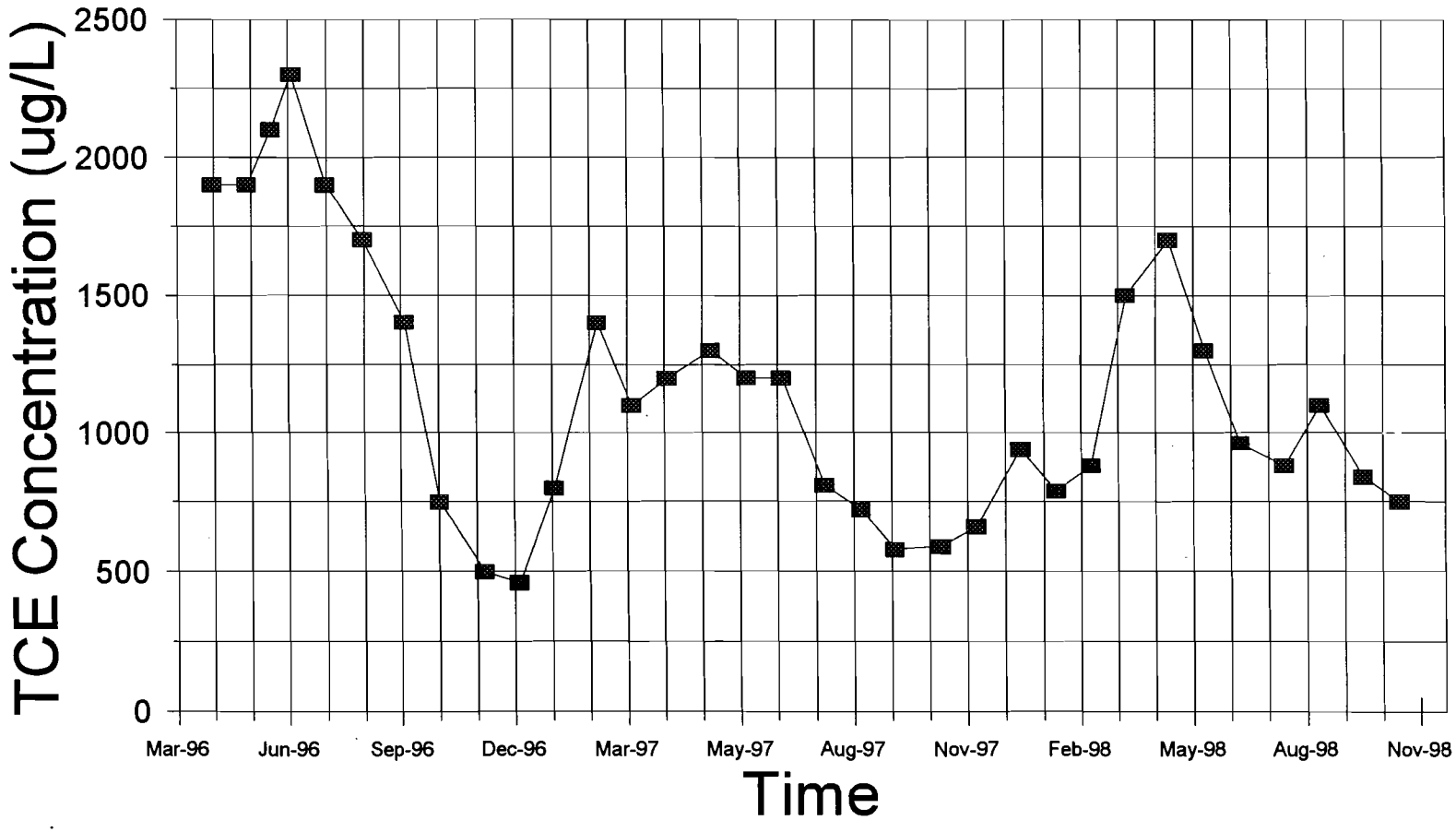


Attachment 2

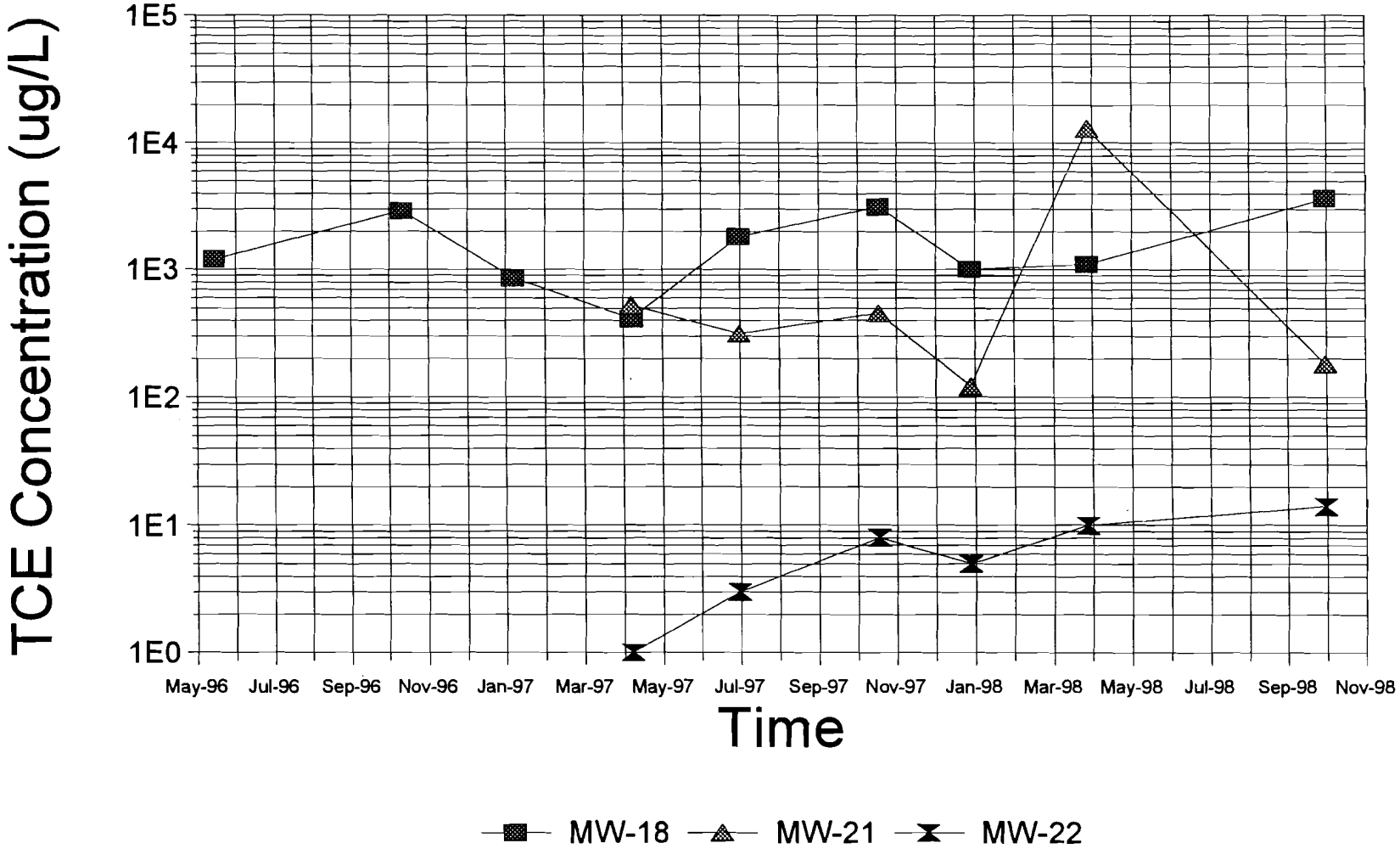
TCE Concentration Data Graphs

Accurate Die Casting TCE Data

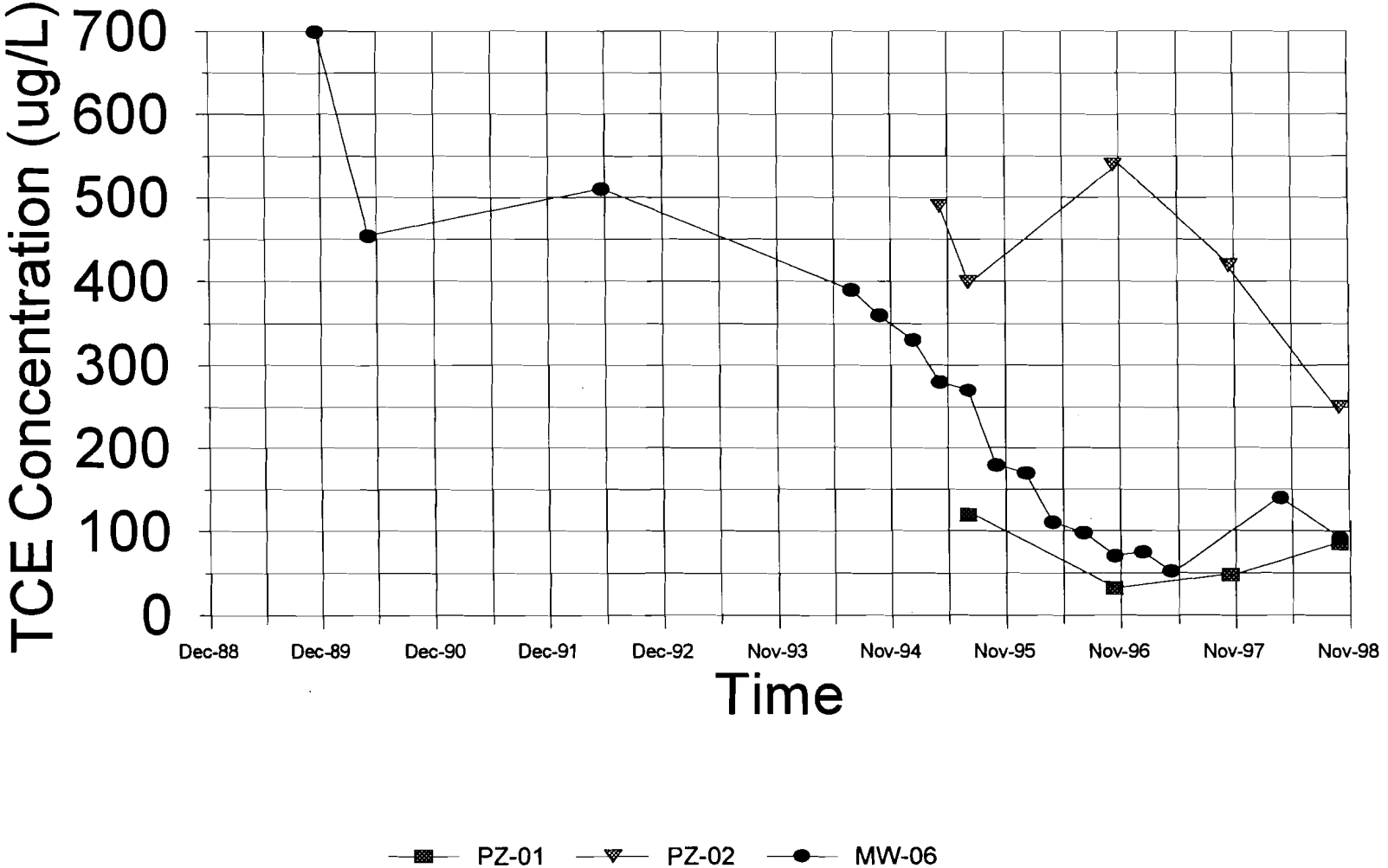
Influent



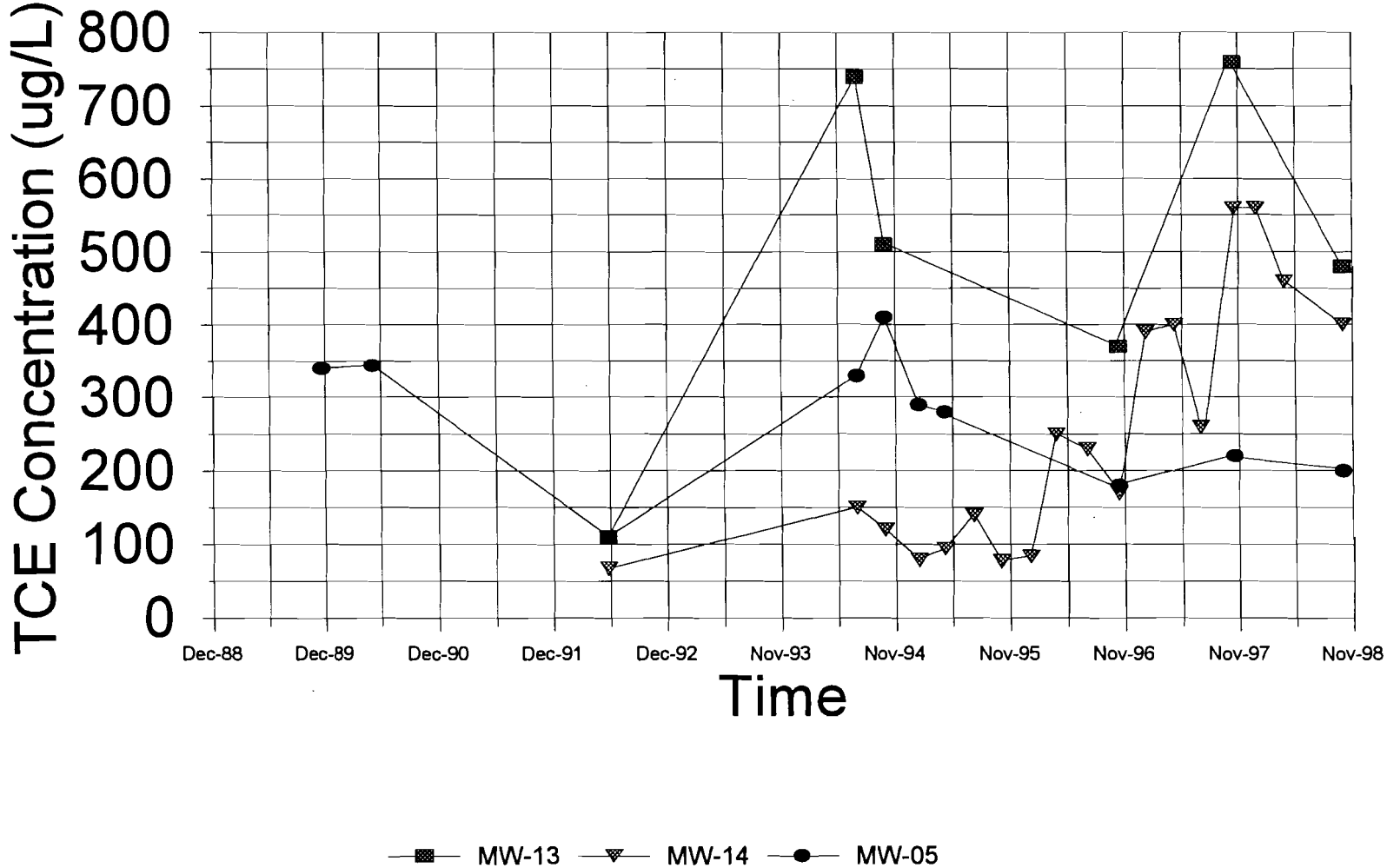
Accurate Die Casting TCE Data
PCB/PAH/VOC Area Wells



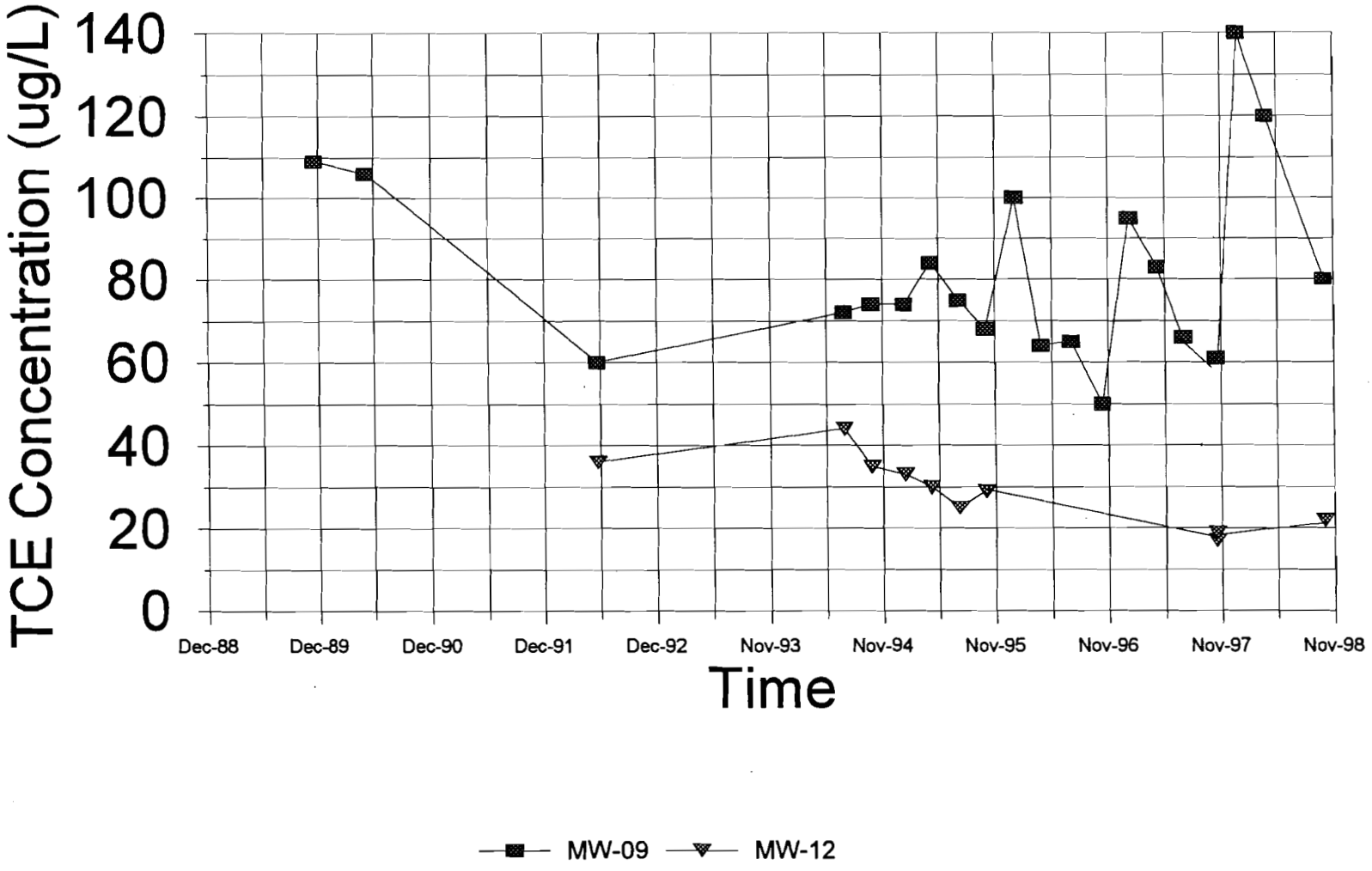
Accurate Die Casting TCE Data
Overburden Wells



Accurate Die Casting TCE Data
Overburden Wells

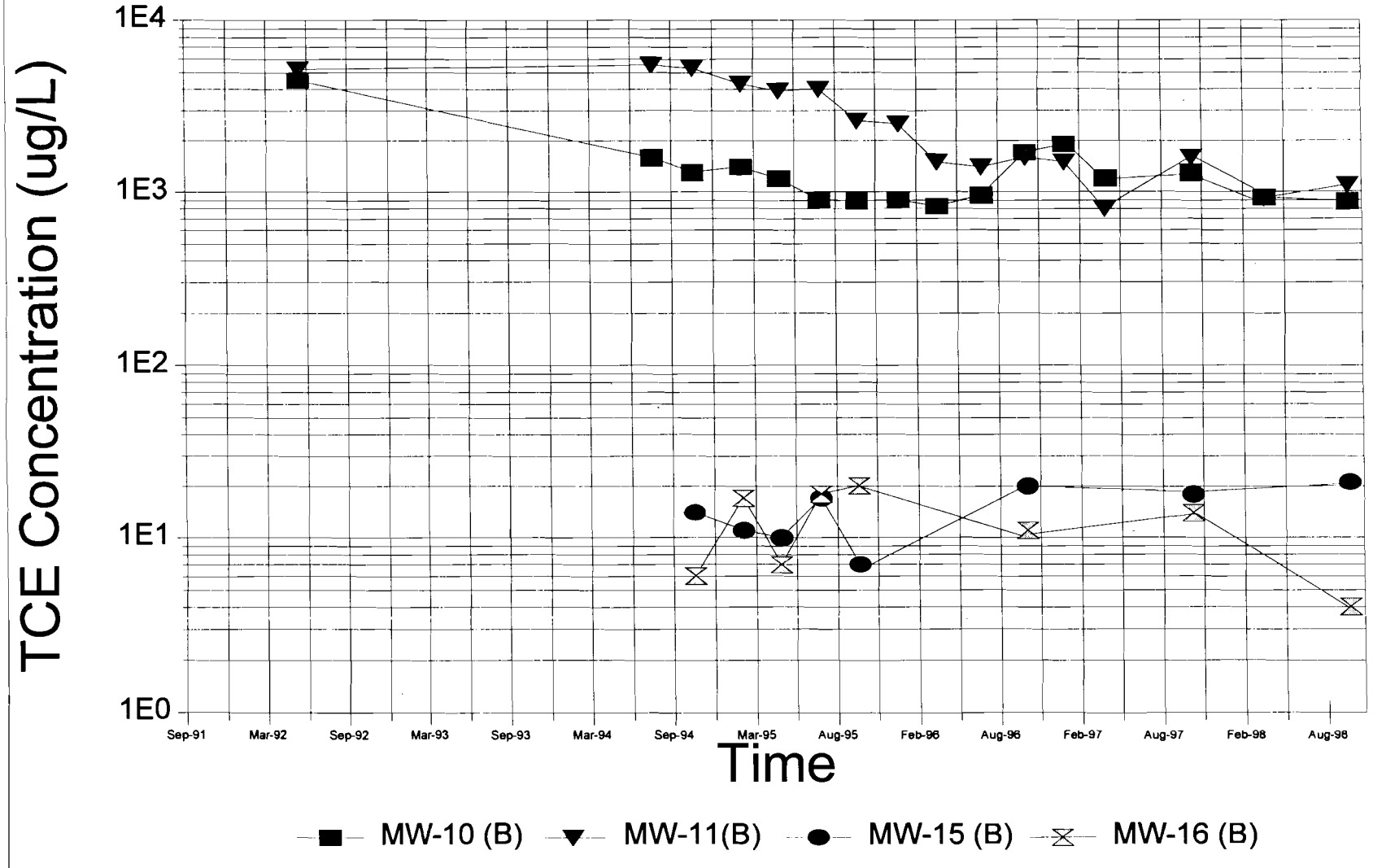


Accurate Die Casting TCE Data
Overburden Wells



Accurate Die Casting TCE Data

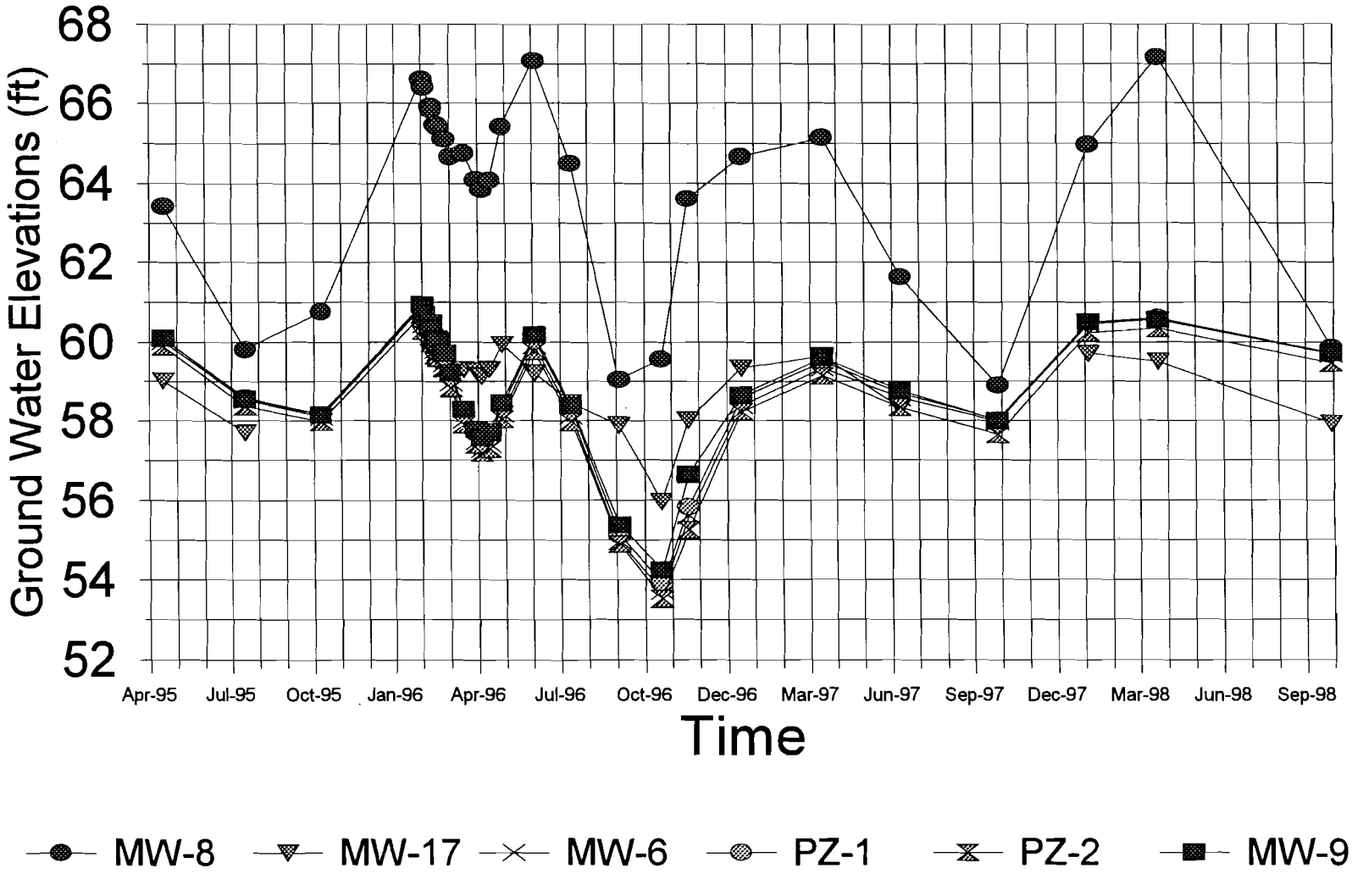
Bedrock Wells



Attachment 3

Ground Water Elevation Data Graphs

Accurate Die Casting Elevation Data
Overburden Wells



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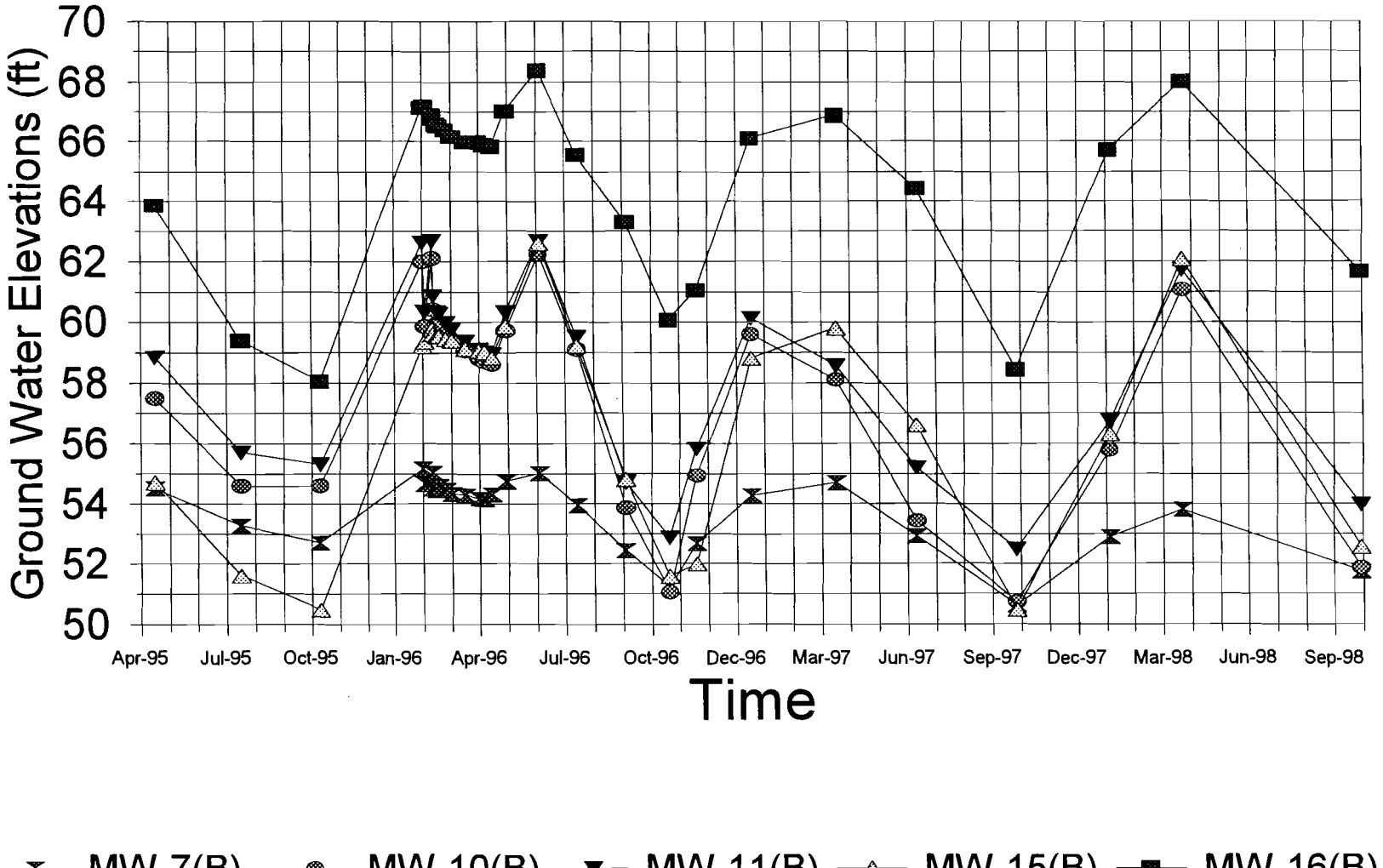
Accurate Die Casting Elevation Data
Bedrock Wells



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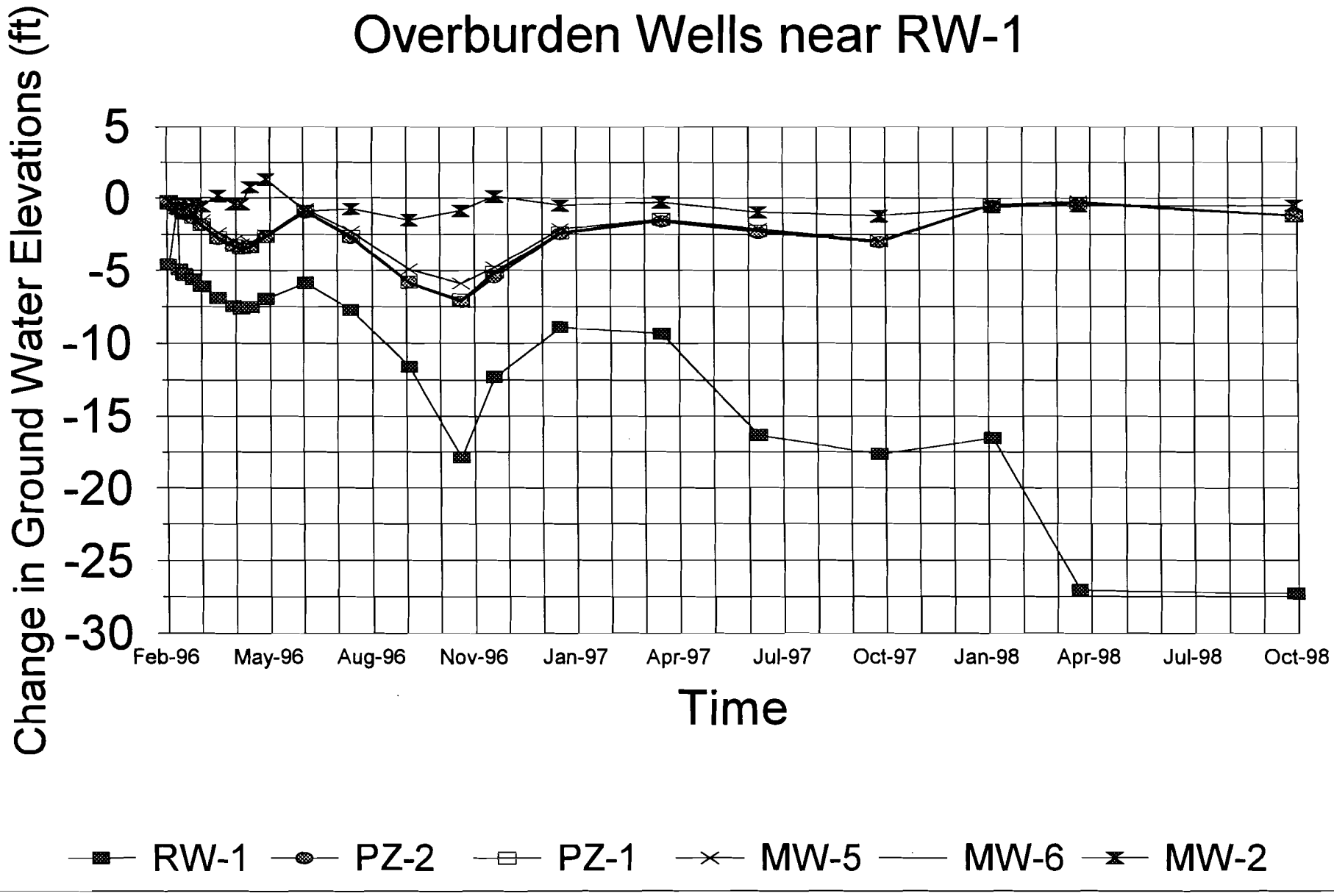
Accurate Die Casting Drawdown Data
Overburden Wells near RW-1



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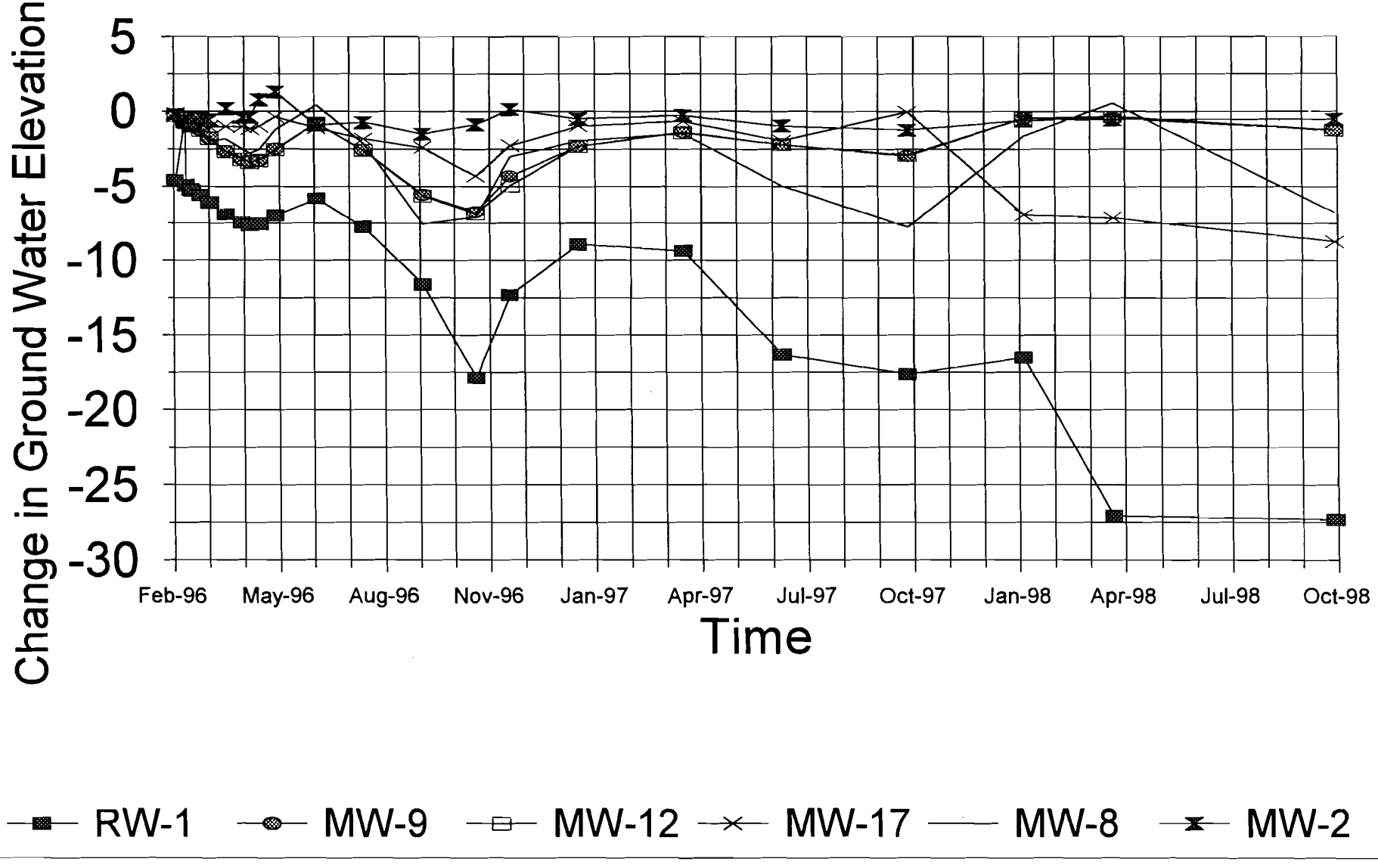
Accurate Die Casting Drawdown Data
Overburden Wells distant from RW-1



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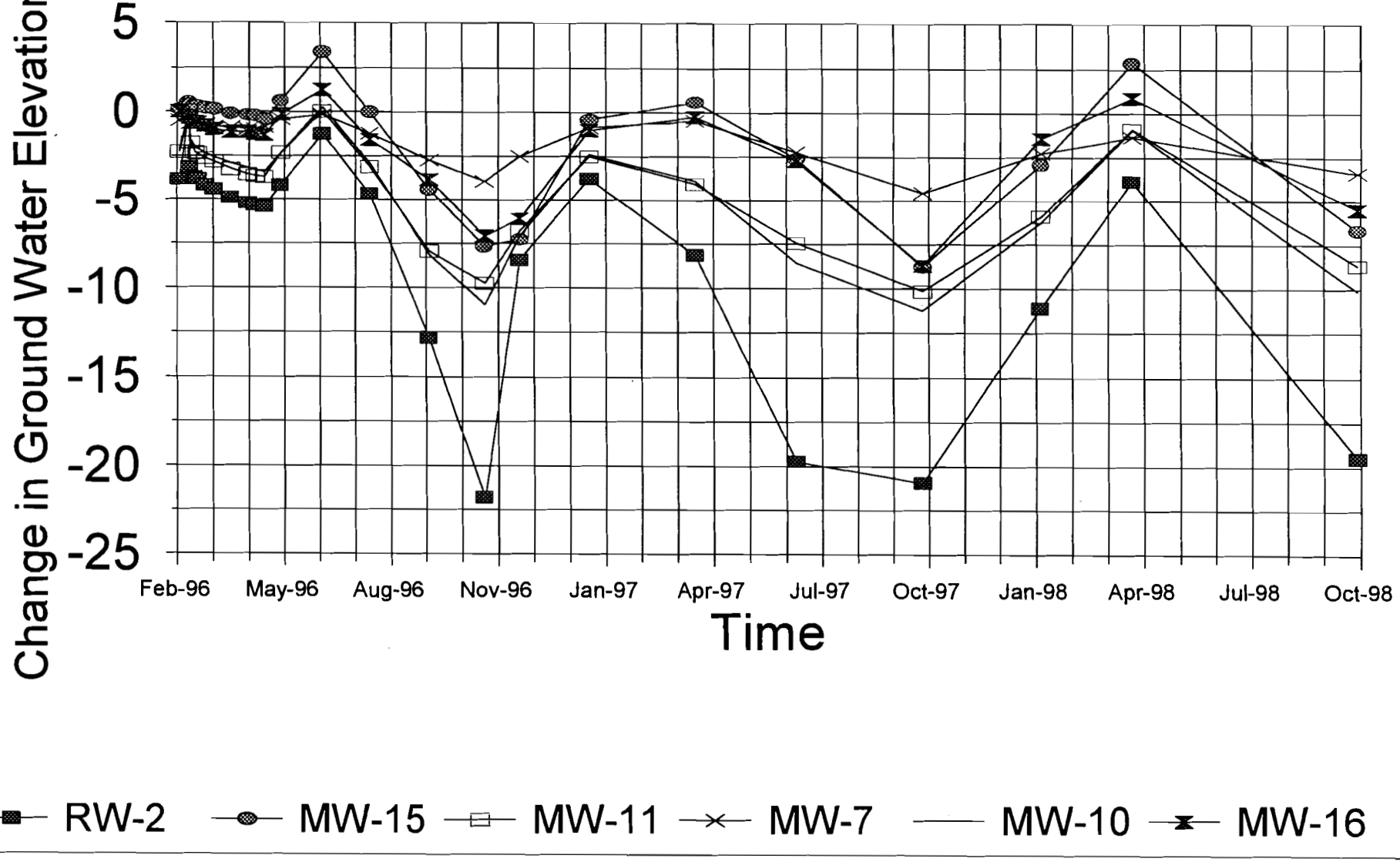
Accurate Die Casting Drawdown Data
Bedrock Aquifer



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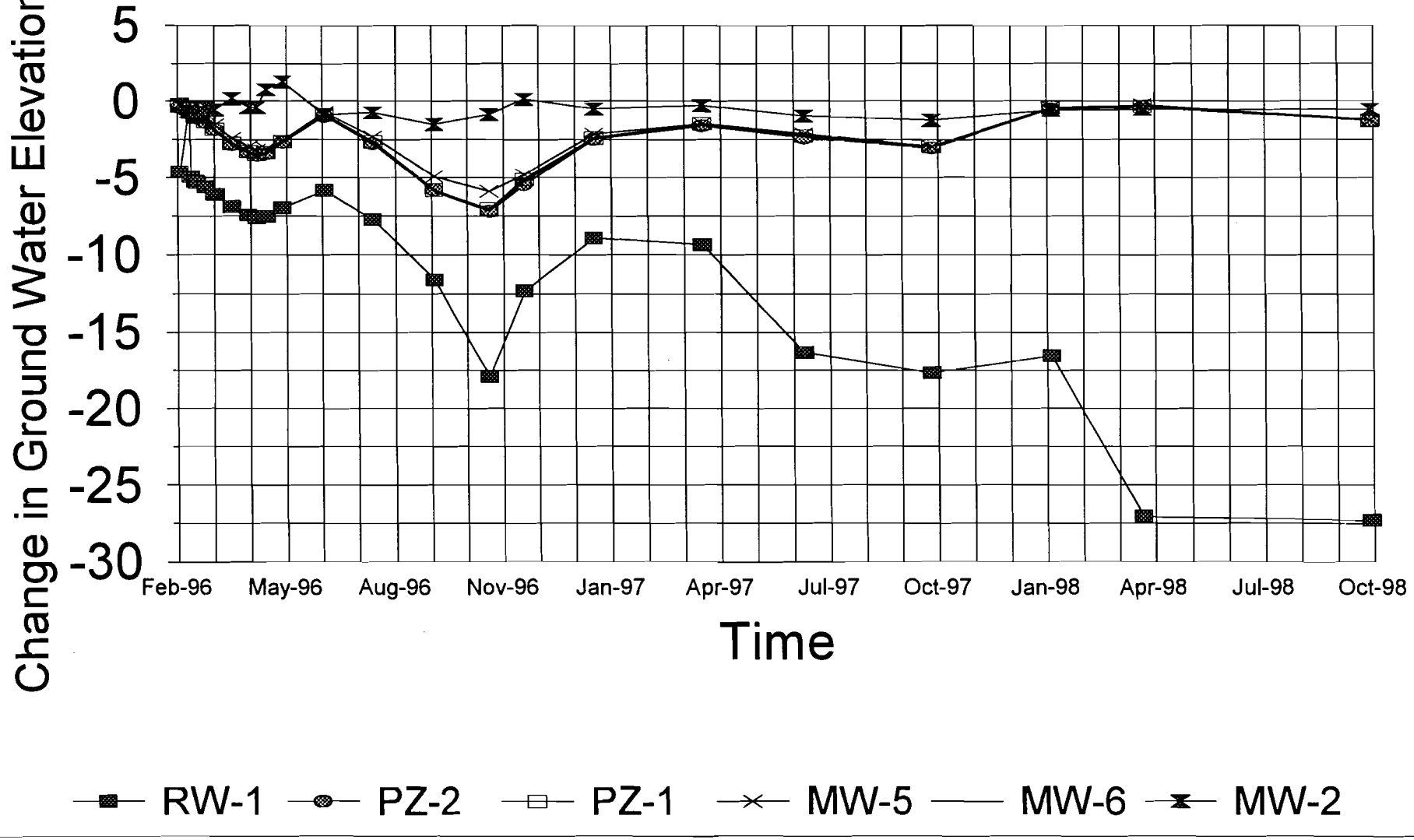
Accurate Die Casting Drawdown Data
Overburden Wells near RW-1



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FILE

O'BRIEN & GERE
ENGINEERS, INC.

MAR 15 1999

March 11, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123

Dear Mr. Crosby:

Enclosed are four copies of the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of February 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through February 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Timothy M. Eddy, HGW
Senior Project Scientist

I:\DIV71\PROJECTS\2488\23123\2_CORRES\2-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
Al Farrell, P.E.- O'Brien & Gere Engineers, Inc.

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(315) 437-6100 FAX (315) 463-7554 • http://www.obg.com
...and offices in major U.S. cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: February 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of February 1999, O'Brien & Gere operated the ground water collection and treatment system on behalf of ITT Industries. Between February 1 through February 28, 1999, a total of 286,970 gallons of ground water was treated: 124,250 gallons were recovered from recovery well RW-1; 162,650 gallons were recovered from RW-2; and 70 gallons were recovered from the sump located outside the northeast corner of the facility. As of March 1,1999, a total of 24,974,810 gallons of ground water has been treated since startup on February 5, 1996.

2. During the month of January 1999, O'Brien & Gere performed the sampling activities associated with the Sampling and Analysis Plan (March 1996), revised according to the NYSDEC letter dated April 1, 1997, and the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the ground water treatment system effluent are discussed in Item b.

3. Ground water quality samples were collected in the vicinity of the proposed ground water collection trench from wells MW-18, MW-21, MW-22, and MW-24 on February 16, 1999. The samples were analyzed for PCBs.

4. The annual report summarizing 1998 remedial activities was transmitted to the NYSDEC on February 25, 1999.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in January 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

© Projected Activities within next 45 days

1. Continue operation of the ground water recovery and treatment system.

2. Evaluate and correct the cause of the decreasing ground water yields from recovery well RW-1.

3. The ground water collection trench contractor will prepare and submit the erosion control plan, construction water management plan, and health & safety plan to the NYSDEC.

(d) Project Schedule

1. Ground water monitoring activities will continue to be performed in accordance with the NYSDEC-approved Sampling & Analysis Plan dated March 1996, as modified in accordance with the recommendations of the Annual Report for 1997 submitted to the NYSDEC on January 27, 1998. Also, the treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

(e) Activities in support of Community Relations Plan

1. None

(f) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 02/02/99	Effluent 02/03/99	Effluent 02/04/99	Effluent 02/09/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	9172	---	9260	9840
pH (SU)	6.5 - 8.5		2/Week	Grab	7.85	---	7.85	7.85
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	480	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	7.90	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.03	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 02/10/99	Effluent 02/11/99	Effluent 02/16/99	Effluent 02/17/99	Effluent 02/18/99	Effluent 02/23/99	Effluent 02/24/99	Effluent 02/25/99
Flow (GPD)	---	9970	10258	---	10530	10798	---	11010
pH (SU)	---	7.85	7.85	---	7.85	7.87	---	7.87
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	480	---	---	430	---	---	440	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K4907
Samp. Description: WTP Effluent

Collected: 01/27/99
Received: 01/27/99 15:30

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	560.	mg/L	EPA 160.1		02/01/99	020199W13	
Total suspended solids	<5.	mg/L	EPA 160.2		01/28/99	012899W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 3,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

595

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV. INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: JERRY BORN, TIM EDDY Phone # 637 0109, 2467

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	1/27/99	10:50 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry Born	Date: 1/27/99	Time: 1530	Received by Lab: Mark F. Jackson	Date: 1/27/99	Time: 15:30
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5433
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 13

Collected: 02/03/99
Received: 02/03/99
Prepared: 02/05/99

Matrix: Water
QC Batch: 020599W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	02/05/99	
Methylene chloride	<2.0		1	02/05/99	
trans-1,2-Dichloroethene	<.50		1	02/05/99	
cis-1,2-Dichloroethene	<.50		1	02/05/99	
Trichloroethene	<.50		1	02/05/99	
4-Methyl-2-pentanone	<5.0		1	02/05/99	
Toluene	<.50		1	02/05/99	
2-Hexanone	<5.0		1	02/05/99	
Tetrachloroethene	<.50		1	02/05/99	
1,1,2,2-Tetrachloroethane	<.50		1	02/05/99	
Dibromofluoromethane (surrogate)	96.%	61-136	1	02/05/99	
Toluene-d8 (surrogate)	96.%	84-114	1	02/05/99	
Bromofluorobenzene (surrogate)	92.%	77-117	1	02/05/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 9,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5431
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 02/03/99
Received: 02/03/99
Prepared:
Analyzed: 02/11/99

Matrix: Water
QC Batch: 021199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<50.	1		
Bromodichloromethane	<50.	1		
Bromoform	<500.	1		
Bromomethane	<500.	1		
Carbon tetrachloride	<50.	1		
Chlorobenzene	<50.	1		
Chloroethane	<50.	1		
2-Chloroethylvinyl ether	<500.	1		
Chloroform	<50.	1		
Chloromethane	<500.	1		
Dibromochloromethane	<50.	1		
1,2-Dichlorobenzene	<250.	1		
1,3-Dichlorobenzene	<250.	1		
1,4-Dichlorobenzene	<250.	1		
Dichlorodifluoromethane	<500.	1		
1,1-Dichloroethane	<50.	1		
1,2-Dichloroethane	<50.	1		
1,1-Dichloroethylene	<50.	1		
cis-1,2-Dichloroethylene	<50.	1		
trans-1,2-Dichloroethylene	<50.	1		
Dichloromethane	<50.	1		
1,2-Dichloropropane	<50.	1		
cis-1,3-Dichloropropylene	<50.	1		
trans-1,3-Dichloropropylene	<50.	1		
Ethylbenzene	<50.	1		
1,1,2,2-Tetrachloroethane	<50.	1		
Tetrachloroethylene	<50.	1		
Toluene	<50.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 16,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5431
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 02/03/99
Received: 02/03/99
Prepared:
Analyzed: 02/11/99

Matrix: Water
QC Batch: 021199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<50.	1		
1,1,2-Trichloroethane	<50.	1		
Trichloroethylene	1100.	1		
Trichlorofluoromethane	<50.	1		
Vinyl Chloride	<50.	1		
Xylenes (total)	<150.	1		
2-Chloropropane (surrogate)	104.%	1	69-118	
Fluorobenzene (surrogate)	97.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 16,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5432
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 02/03/99
Received: 02/03/99
Prepared:
Analyzed: 02/11/99

Matrix: Water
QC Batch: 021199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<1.	1		
Bromodichloromethane	<1.	1		
Bromoform	<10.	1		
Bromomethane	<10.	1		
Carbon tetrachloride	<1.	1		
Chlorobenzene	<1.	1		
Chloroethane	<1.	1		
2-Chloroethylvinyl ether	<10.	1		
Chloroform	<1.	1		
Chloromethane	<10.	1		
Dibromochloromethane	<1.	1		
1,2-Dichlorobenzene	<5.	1		
1,3-Dichlorobenzene	<5.	1		
1,4-Dichlorobenzene	<5.	1		
Dichlorodifluoromethane	<10.	1		
1,1-Dichloroethane	<1.	1		
1,2-Dichloroethane	<1.	1		
1,1-Dichloroethylene	<1.	1		
cis-1,2-Dichloroethylene	2.	1		
trans-1,2-Dichloroethylene	<1.	1		
Dichloromethane	<1.	1		
1,2-Dichloropropane	<1.	1		
cis-1,3-Dichloropropylene	<1.	1		
trans-1,3-Dichloropropylene	<1.	1		
Ethylbenzene	<1.	1		
1,1,2,2-Tetrachloroethane	<1.	1		
Tetrachloroethylene	<1.	1		
Toluene	<1.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 16, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5432
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 02/03/99
Received: 02/03/99
Prepared:
Analyzed: 02/11/99

Matrix: Water
QC Batch: 021199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<1.	1		
1,1,2-Trichloroethane	<1.	1		
Trichloroethylene	<1.	1		
Trichlorofluoromethane	<1.	1		
Vinyl Chloride	<1.	1		
Xylenes (total)	<3.	1		
2-Chloropropane (surrogate)	111.%	1	69-118	
Fluorobenzene (surrogate)	98.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 16,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5434
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 02/03/99
Received: 02/03/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	02/10/99	02/16/99	021099W2	1	
Zinc	.03	200.7	02/09/99	02/09/99	020999W1	1	

Notes:

T-Estimated value

Authorized: Monika Santucci
Date: February 17,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5434
Samp. Description: WTP Effluent - Composite

Collected: 02/03/99
Received: 02/03/99 15:30

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	480.	mg/L	EPA 160.1		02/04/99	020499W12	
Total suspended solids	<5.	mg/L	EPA 160.2		02/04/99	020499W11	

Notes:

Estimated value

Authorized: Monika Santucci
Date: February 9,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

(560)

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV. INC.

Project: IFT FINANCIAL (FORMERLY ACCURATE DIE)

Sampled by:

Client Contact: JERRY BORN, TIM EDDY Phone # 637 0109 2467

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOC's EPA METHOD 8021	VOC's EPA METHOD 8021	VOC's EPA METHOD 8260	Zn & Hg	TSS/TDS			Comments
WTP INFLUENT	2/3/99	7:01 AM	WATER	GRAB	2	X							
WTP BETWEEN GAC's	2/3/99	6:56 AM	WATER	GRAB	2		X						
WTP EFFLUENT	2/3/99	6:50 AM	WATER	GRAB	2			X					
WTP EFFLUENT	2/3/99	10:05 AM	WATER	COMP	1				X				
WTP EFFLUENT	2/3/99	10:01 AM	WATER	COMP	1					X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 2/3/99	Time: 1530	Received by Lab: Mark F. Jackson	Date: 2/3/99	Time. 15:30
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required;
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 30°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K5702
Samp. Description: WTP Effluent

Collected: 02/10/99
Received: 02/10/99 15:40

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	480.	mg/L	EPA 160.1		02/17/99	021799W12	
Total suspended solids	<5.	mg/L	EPA 160.2		02/12/99	021299W11	

Notes:

Estimated value

Authorized: Monika Santucci
Date: February 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

735

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV. INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: ~~JIM FERRY~~ JERRY BORN Phone # 6370107

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	2/10/97	10:51 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JERRY BORN	Date: 2/10/97	Time: 1540	Received by Lab: Mark F. Jackson	Date: 2/10/97	Time: 15:40
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)_____

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K6219
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 02/17/99
Received: 02/17/99
Prepared: 02/24/99

Matrix: Water
QC Batch: 022499W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	02/24/99	
Methylene chloride	<2.0		1	02/24/99	
trans-1,2-Dichloroethene	<.50		1	02/24/99	
cis-1,2-Dichloroethene	<.50		1	02/24/99	
Trichloroethene	<.50		1	02/24/99	
4-Methyl-2-pentanone	<5.0		1	02/24/99	
Toluene	<.50		1	02/24/99	
2-Hexanone	<5.0		1	02/24/99	
Tetrachloroethene	<.50		1	02/24/99	
1,1,2,2-Tetrachloroethane	<.50		1	02/24/99	
1,2-Dichloroethane-d4 (surrogate)	113.%	80-135	1	02/24/99	
Dibromofluoromethane (surrogate)	108.%	61-136	1	02/24/99	
Toluene-d8 (surrogate)	109.%	84-114	1	02/24/99	
Bromofluorobenzene (surrogate)	103.%	77-117	1	02/24/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: February 25,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K6220
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 02/17/99
Received: 02/17/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	02/24/99	02/25/99	022499W1	1	
Zinc	<.01	200.7	02/25/99	02/26/99	022599W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 27, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K6220
Samp. Description: WTP Effluent - Composite

Collected: 02/17/99
Received: 02/17/99 15:35

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	430.	mg/L	EPA 160.1		02/24/99	022499W19	
Total suspended solids	<5.	mg/L	EPA 160.2		02/23/99	022399W13	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: February 27,1999 Monika Santucci

804

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: TIM REDDY / JERRY BORN Phone # 2467 / 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOC's EPA METHOD 8260	Hg + 2N	TSS/TDS	Comments
WTP EFFLUENT	2/17/99	7:30 AM	WATER	GRAB	2	X			
WTP EFFLUENT	2/17/99	1:57 PM	WATER	COMP	1		X		
WTP EFFLUENT	2/17/99	11:55 AM	WATER	COMP	1			X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 2/17/99	Time: 1535	Received by Lab: [signature]	Date: 2/17/99	Time: 15:35
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify) _____

Comments:

Cooler Temperature: 5°C

Original-Laboratory Copy-Client

FILE

O'BRIEN & GERE
ENGINEERS, INC.

April 13, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed are four copies of the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of March 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through March 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Timothy M. Eddy, HGW
Senior Project Scientist

I:\DIV71\PROJECTS\2488\23123\2_CORRES\3-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
Al Farrell, P.E.- O'Brien & Gere Engineers, Inc.

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: March 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of March 1999, O'Brien & Gere operated the ground water collection and treatment system on behalf of ITT Industries. Between March 1 through March 31, 1999, a total of 353,590 gallons of ground water was treated: 133,270 gallons were recovered from recovery well RW-1; 218,700 gallons were recovered from RW-2; and 1,620 gallons were recovered from the sump located outside the northeast corner of the facility. As of April 1,1999, a total of 25,328,400 gallons of ground water has been treated since startup on February 5, 1996.

2. During the month of March 1999, O'Brien & Gere performed the sampling activities associated with the Sampling and Analysis Plan (March 1996), revised according to the NYSDEC letter dated April 1, 1997, and the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the ground water treatment system effluent are discussed in Item b.

3. On March 31, 1999 the treatment system flow alignment was modified to place the GAC#1 as the lead unit in preparation for changing out the carbon in GAC#2 unit.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in February1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. Continue operation of the ground water recovery and treatment system.

2. Redevelop recovery well RW-1 and test pump for proper operation.

3. The ground water collection trench contractor will prepare and submit the erosion control plan, construction water management plan, and health & safety plan to the NYSDEC.

4. O'Brien & Gere will conduct semi-annual sampling of site ground water in April 1999

(d) Project Schedule

1. Ground water monitoring activities will continue to be performed in accordance with the NYSDEC-approved Sampling & Analysis Plan dated March 1996, as modified in accordance with the recommendations of the Annual Report for 1997 submitted to the NYSDEC on January 27, 1998. Also, the treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

(e) Activities in support of Community Relations Plan

1. None

(f) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 03/02/99	Effluent 03/03/99	Effluent 03/04/99	Effluent 03/09/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	11140	---	11610	11320
pH (SU)	6.5 - 8.5		2/Week	Grab	7.85	---	7.92	7.89
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	420	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	12.05	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 03/10/99	Effluent 03/11/99	Effluent 03/16/99	Effluent 03/17/99	Effluent 03/18/99	Effluent 03/23/99	Effluent 03/24/99	Effluent 03/25/99
Flow (GPD)	---	11570	11450	---	11550	11320	---	11660
pH (SU)	---	7.88	7.85	---	7.85	7.85	---	7.85
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	420	---	---	400	---	---	400	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.02	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 03/30/99
Flow (GPD)	11170
pH (SU)	7.85
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, total (mg/L)	---
Zinc, total (mg/L)	---
cis-1,2-Dichloroethene (ug/L)	---
trans-1,2-Dichloroethene (ug/L)	---
Methylene chloride (ug/L)	---
1,1,2,2-Tetrachloroethane (ug/L)	---
Tetrachloroethene (ug/L)	---
Toluene (ug/L)	---
Trichloroethene (ug/L)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7096
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 03/03/99
Received: 03/03/99
Prepared: 03/05/99

Matrix: Water
QC Batch: 030599W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	03/05/99	
Methylene chloride	<2.0		1	03/05/99	
trans-1,2-Dichloroethene	<.50		1	03/05/99	
cis-1,2-Dichloroethene	<.50		1	03/05/99	
Trichloroethene	<.50		1	03/05/99	
4-Methyl-2-pentanone	<5.0		1	03/05/99	
Toluene	<.50		1	03/05/99	
2-Hexanone	<5.0		1	03/05/99	
Tetrachloroethene	<.50		1	03/05/99	
1,1,2,2-Tetrachloroethane	<.50		1	03/05/99	
1,2-Dichloroethane-d4 (surrogate)	109.%	80-135	1	03/05/99	
Dibromofluoromethane (surrogate)	114.%	61-136	1	03/05/99	
Toluene-d8 (surrogate)	109.%	84-114	1	03/05/99	
Bromofluorobenzene (surrogate)	107.%	77-117	1	03/05/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 5,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7094
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 03/03/99
Received: 03/03/99
Prepared:
Analyzed: 03/11/99

Matrix: Water
QC Batch: 031199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<50.	1		
Bromodichloromethane	<50.	1		
Bromoform	<500.	1		
Bromomethane	<500.	1		
Carbon tetrachloride	<50.	1		
Chlorobenzene	<50.	1		
Chloroethane	<50.	1		
2-Chloroethylvinyl ether	<500.	1		
Chloroform	<50.	1		
Chloromethane	<500.	1		
Dibromochloromethane	<50.	1		
1,2-Dichlorobenzene	<250.	1		
1,3-Dichlorobenzene	<250.	1		
1,4-Dichlorobenzene	<250.	1		
Dichlorodifluoromethane	<500.	1		
1,1-Dichloroethane	<50.	1		
1,2-Dichloroethane	<50.	1		
1,1-Dichloroethylene	<50.	1		
cis-1,2-Dichloroethylene	<50.	1		
trans-1,2-Dichloroethylene	<50.	1		
Dichloromethane	<50.	1		
1,2-Dichloropropane	<50.	1		
cis-1,3-Dichloropropylene	<50.	1		
trans-1,3-Dichloropropylene	<50.	1		
Ethylbenzene	<50.	1		
1,1,2,2-Tetrachloroethane	<50.	1		
Tetrachloroethylene	<50.	1		
Toluene	<50.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 12,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7094
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 50 Instrument: 9001

Collected: 03/03/99
Received: 03/03/99
Prepared:
Analyzed: 03/11/99

Matrix: Water
QC Batch: 031199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<50.	1		
1,1,2-Trichloroethane	<50.	1		
Trichloroethylene	1200.	1		
Trichlorofluoromethane	<50.	1		
Vinyl Chloride	<50.	1		
Xylenes (total)	<150.	1		
2-Chloropropane (surrogate)	97.%	1	69-118	
Fluorobenzene (surrogate)	98.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 12,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7095
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 03/03/99
Received: 03/03/99
Prepared:
Analyzed: 03/11/99

Matrix: Water
QC Batch: 031199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
Benzene	<1.	1		
Bromodichloromethane	<1.	1		
Bromoform	<10.	1		
Bromomethane	<10.	1		
Carbon tetrachloride	<1.	1		
Chlorobenzene	<1.	1		
Chloroethane	<1.	1		
2-Chloroethylvinyl ether	<10.	1		
Chloroform	<1.	1		
Chloromethane	<10.	1		
Dibromochloromethane	<1.	1		
1,2-Dichlorobenzene	<5.	1		
1,3-Dichlorobenzene	<5.	1		
1,4-Dichlorobenzene	<5.	1		
Dichlorodifluoromethane	<10.	1		
1,1-Dichloroethane	<1.	1		
1,2-Dichloroethane	<1.	1		
1,1-Dichloroethylene	<1.	1		
cis-1,2-Dichloroethylene	4.	1		
trans-1,2-Dichloroethylene	<1.	1		
Dichloromethane	<1.	1		
1,2-Dichloropropane	<1.	1		
cis-1,3-Dichloropropylene	<1.	1		
trans-1,3-Dichloropropylene	<1.	1		
Ethylbenzene	<1.	1		
1,1,2,2-Tetrachloroethane	<1.	1		
Tetrachloroethylene	<1.	1		
Toluene	<1.	1		

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 12,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7095
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m X .45mm ID
Dilution: 1 Instrument: 9001

Collected: 03/03/99
Received: 03/03/99
Prepared:
Analyzed: 03/11/99

Matrix: Water
QC Batch: 031199W1
%Solids:
Purge volume: 5 ml

Number of analytes: 36

Parameter	Result	Col	Surrog Limits	Notes
1,1,1-Trichloroethane	<1.	1		
1,1,2-Trichloroethane	<1.	1		
Trichloroethylene	8.	1		
Trichlorofluoromethane	<1.	1		
Vinyl Chloride	<1.	1		
Xylenes (total)	<3.	1		
2-Chloropropane (surrogate)	101.%	1	69-118	
Fluorobenzene (surrogate)	98.%	1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 12,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7097
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 03/03/99
Received: 03/03/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	03/11/99	03/11/99	031199W1	1	
Zinc	<.01	200.7	03/08/99	03/08/99	030899W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 12, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7097
Samp. Description: WTP Effluent - Composite

Collected: 03/03/99
Received: 03/03/99 15:30

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	420.	mg/L	EPA 160.1		03/08/99	030899W14	
Total suspended solids	<5.	mg/L	EPA 160.2		03/08/99	030899W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 11,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

954

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: JIM EDDY / JERRY BORN Phone # 2467 / 637-0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOCs EPA METH 8021	VOCs EPA METH 8021	VOCs EPA METH 8260	Zn + Hg	TSS/TDS			Comments
WTP INFLUENT	3/3/99	7:01 AM	WATER	GRAB	2	X							
WTP BETWEEN GAC's	3/3/99	6:55AM	WATER	GRAB	2		X						
WTP EFFLUENT	3/3/99	6:55 AM	WATER	GRAB	2			X					
WTP EFFLUENT	3/3/99	10:15 AM	WATER	COMP	1				X				
WTP EFFLUENT	3/3/99	10:18 AM	WATER	COMP	1					X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 3/3/99	Time: 1530	Received by Lab: Mark F Jackson	Date: 3/3/99	Time: 15:30
Shipment Method: HAND			Airbill Number:		

Turnaround Time-Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7601
Samp. Description: WTP Effluent

Collected: 03/10/99
Received: 03/10/99 15:50

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	420.	mg/L	EPA 160.1		03/16/99	031699W16	
Total suspended solids	<5.	mg/L	EPA 160.2		03/12/99	031299W15	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 19,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

1034

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV. INC.
Project: ITT FINANCIAL (FORMER ACCURATE DIE)
Sampled by: JERRY BORN
Client Contact: TIM EDDY, JERRY BORN Phone # 2467, 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	3/10/99	10:20 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry P Born	Date: 3/10/99	Time: 15.50	Received by Lab: Mark F Nelson	Date: 3/10/99	Time: 15:50
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)_____

Comments:

Cooler Temperature: 2° C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7987
Samp. Description: WTP Effluent (Grab)
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 03/17/99
Received: 03/17/99
Prepared: 03/19/99

Matrix: Water
QC Batch: 031999W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	03/19/99	
Methylene chloride	<2.0		1	03/19/99	
trans-1,2-Dichloroethene	<.50		1	03/19/99	
cis-1,2-Dichloroethene	<.50		1	03/19/99	
Trichloroethene	<.50		1	03/19/99	
4-Methyl-2-pentanone	<5.0		1	03/19/99	
Toluene	<.50		1	03/19/99	
2-Hexanone	<5.0		1	03/19/99	
Tetrachloroethene	<.50		1	03/19/99	
1,1,2,2-Tetrachloroethane	<.50		1	03/19/99	
1,2-Dichloroethane-d4 (surrogate)	105.%	80-135	1	03/19/99	
Dibromofluoromethane (surrogate)	105.%	61-136	1	03/19/99	
Toluene-d8 (surrogate)	105.%	84-114	1	03/19/99	
Bromofluorobenzene (surrogate)	104.%	77-117	1	03/19/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: March 22, 1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7988
Samp. Description: WTP Effluent (Composite)
Units: mg/L

Collected: 03/17/99
Received: 03/17/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	03/25/99	03/26/99	032599W1	1	
Zinc	.02	200.7	03/24/99	03/24/99	032499W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 27, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K7988
Samp. Description: WTP Effluent (Composite)

Collected: 03/17/99
Received: 03/17/99 15:50

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	400.	mg/L	EPA 160.1		03/22/99	032299W13	
Total suspended solids	<5.	mg/L	EPA 160.2		03/22/99	032299W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 25, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

1102

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: JERRY BORN Phone # 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8260	2M+Hg	TSS/TDS	Comments
WTP EFFLUENT	3/17/99	7:02 AM	WATER	GRAB	2	+			
WTP EFFLUENT	3/17/99	10:11 AM	WATER	COMP	1		+		
WTP EFFLUENT	3/17/99	10:14 AM	WATER	COMP	1			+	

Analysis/Method

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: James Born	Date: 3/17/99	Time: 1530	Received by Lab: Mark F. Jackson	Date: 3/17/99	Time: 15:50

Shipment Method: HAND DELIVERED

Airbill Number:

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 30C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K8520
Samp. Description: WTP Effluent

Collected: 03/24/99
Received: 03/24/99 15:55

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	400.	mg/L	EPA 160.1		03/25/99	032599W11	
Total suspended solids	<5.	mg/L	EPA 160.2		03/25/99	032599W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: March 27,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

4185

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC.

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: TIM EDDY / JERRY BORN Phone # 2467 / 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TCL/TOC	Comments
WTP EFFLUENT	3/24/99	11:27 AM	WATER	Comp	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 3/24/99	Time: 1555	Received by Lab: [signature]	Date: 3/24/99	Time: 15 55
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 20C

Original-Laboratory Copy-Client

FILE COPY

O'BRIEN & GERE
ENGINEERS, INC.

MAY 17 1999

May 13, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed are four copies of the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of April 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through April 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Timothy M. Eddy, HGW
Senior Project Scientist

I:\DIV71\PROJECTS\2488\23123\2_CORRES\4-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
John Terwilliger - O'Brien & Gere Technical Services, Inc

O'Brien & Gere Engineers, Inc. (an O'Brien & Gere company)
5000 Brittonfield Parkway • P.O. Box 4873 • Syracuse, New York 13221-4873
(315) 437-6100 • FAX (315) 463-7554 • http://www.obg.com
and offices in much of the world

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: April 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of April 1999, O'Brien & Gere operated the ground water collection and treatment system on behalf of ITT Industries. Between April 1 through April 30, 1999, a total of 540,900 gallons of ground water was treated: 351,830 gallons were recovered from recovery well RW-1; 188,970 gallons were recovered from RW-2; and 100 gallons were recovered from the sump located outside the northeast corner of the facility. As of April 1,1999, a total of 25,869,300 gallons of ground water has been treated since startup on February 5, 1996.

2. During the month of April 1999, O'Brien & Gere performed the sampling activities associated with the Sampling and Analysis Plan (March 1996), revised according to the NYSDEC letter dated April 1, 1997, and the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the ground water treatment system effluent are discussed in Item b.

3. O'Brien & Gere completed semi-annual sampling of site ground water on April 23,1999.

4. Recovery well RW-1 was rehabilitated during the week of April 12, 1999. Well efficiency, as measured by specific capacity, increased from 0.68 gpm/ft prior to rehabilitation to 3.8 gpm/ft afterwards.

5. The ground water collection trench contractor prepared and submitted the erosion control plan, construction water management plan, and health & safety plan to the NYSDEC. The NYSDEC provided comments to the plans in corrrespondence dated April 27, 1999.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in April 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. Ground water monitoring activities will continue to be performed in accordance with the NYSDEC-approved Sampling & Analysis Plan dated March 1996, as modified in accordance with the recommendations of the Annual Report for 1997 submitted to the NYSDEC on January 27, 1998. Also, the treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

2. Continue operation of the ground water recovery and treatment system.

3. Address NYSDEC comments on the construction water management plan and health & safety plan.

4. Mobilization activities associated with the ground water collection trench installation will be completed during the week of May 3, 1999.

5. Trenching activities will commence during the week of May 17, 1999.

(d) Activities in support of Community Relations Plan

1. None

(f) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 04/01/99	Effluent 04/06/99	Effluent 04/07/99	Effluent 04/08/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	11230	11260	---	11430
pH (SU)	6.5 - 8.5		2/Week	Grab	7.96	7.96	---	7.94
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	---	460	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	5 U	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	0.4 U	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	9.3 U	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	7.91	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.06 U	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	0.01 U	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	0.01 U	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.01	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	0.05	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	0.005 U	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	---	0.0002 U	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	0.05 U	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.01 U	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	0.03 U	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	---	0.01	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	---	0.50 U	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	---	10 U	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 04/13/99	Effluent 04/14/99	Effluent 04/15/99	Effluent 04/20/99	Effluent 04/21/99	Effluent 04/22/99	Effluent 04/27/99	Effluent 04/29/99
Flow (GPD)	7340	---	7020	26430	---	27200	28013	28060
pH (SU)	7.79	---	7.96	7.87	---	7.83	7.81	7.82
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	---
Total dissolved solids (TDS) (mg/L)	---	380	---	---	400	---	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.04	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9674
Samp. Description: WTP Effluent

Collected: 04/14/99
Received: 04/14/99 15:45

Matrix: Water

Parameter	Result	Qual	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	380.		mg/L	EPA 160.1		04/19/99	041999W12	
Total suspended solids	<5.	U	mg/L	EPA 160.2		04/19/99	041999W11	

Notes:

J-Estimated value

Authorized: Thomas Alexander for
Date: April 22,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

ATTACHMENT A

LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K8806
Samp. Description: WTP Effluent

Collected: 03/31/99
Received: 03/31/99 15:48

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	480.	mg/L	EPA 160.1		04/06/99	040699W14	
Total suspended solids	<5.	mg/L	EPA 160.2		04/02/99	040299W11	

Notes:

J-Estimated value

Authorized: _____
Date: April 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9143
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 04/07/99
Received: 04/07/99
Prepared: 04/12/99

Matrix: Water
QC Batch: 041299W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	04/12/99	
Methylene chloride	<2.0		1	04/12/99	
trans-1,2-Dichloroethene	<.50		1	04/12/99	
cis-1,2-Dichloroethene	<.50		1	04/12/99	
Trichloroethene	<.50		1	04/12/99	
4-Methyl-2-pentanone	<5.0		1	04/12/99	
Toluene	<.50		1	04/12/99	
2-Hexanone	<5.0		1	04/12/99	
Tetrachloroethene	<.50		1	04/12/99	
1,1,2,2-Tetrachloroethane	<.50		1	04/12/99	
1,2-Dichloroethane-d4 (surrogate)	111.%	80-135	1	04/12/99	
Dibromofluoromethane (surrogate)	103.%	61-136	1	04/12/99	
Toluene-d8 (surrogate)	103.%	84-114	1	04/12/99	
Bromofluorobenzene (surrogate)	88.%	77-117	1	04/12/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 13, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9141
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/07/99
Received: 04/07/99
Prepared:
Analyzed: 04/21/99

Matrix: Water
QC Batch: 042199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	50.	U	1		50	
Bromodichloromethane	50.	U	1		50	
Bromoform	500.	U	1		500	
Bromomethane	500.	U	1		500	
Carbon tetrachloride	50.	U	1		50	
Chlorobenzene	50.	U	1		50	
Chloroethane	50.	U	1		50	
2-Chloroethylvinyl ether	500.	U	1		500	
Chloroform	50.	U	1		50	
Chloromethane	500.	U	1		500	
Dibromochloromethane	50.	U	1		50	
1,2-Dichlorobenzene	250.	U	1		250	
1,3-Dichlorobenzene	250.	U	1		250	
1,4-Dichlorobenzene	250.	U	1		250	
Dichlorodifluoromethane	500.	U	1		500	
1,1-Dichloroethane	50.	U	1		50	
1,2-Dichloroethane	50.	U	1		50	
1,1-Dichloroethylene	50.	U	1		50	
cis-1,2-Dichloroethylene	50.	U	1		50	
trans-1,2-Dichloroethylene	50.	U	1		50	
Dichloromethane	50.	U	1		50	
1,2-Dichloropropane	50.	U	1		50	
cis-1,3-Dichloropropylene	50.	U	1		50	
trans-1,3-Dichloropropylene	50.	U	1		50	
Ethylbenzene	50.	U	1		50	
1,1,2,2-Tetrachloroethane	50.	U	1		50	
Tetrachloroethylene	50.	U	1		50	
Toluene	50.	U	1		50	
1,1,1-Trichloroethane	50.	U	1		50	

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 21,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9141
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/07/99
Received: 04/07/99
Prepared:
Analyzed: 04/21/99

Matrix: Water
QC Batch: 042199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	50.	U	1		50	
Trichloroethylene	1100.		1		50	
Trichlorofluoromethane	50.	U	1		50	
Vinyl Chloride	50.	U	1		50	
Xylenes (total)	150.	U	1		150	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	105.%		1	69-118	
Fluorobenzene (surrogate)	99.%		1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 21, 1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9142
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/07/99
Received: 04/07/99
Prepared:
Analyzed: 04/20/99

Matrix: Water
QC Batch: 042099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	1.	U	1		1	
Bromodichloromethane	1.	U	1		1	
Bromoform	10.	U	1		10	
Bromomethane	10.	U	1		10	
Carbon tetrachloride	1.	U	1		1	
Chlorobenzene	1.	U	1		1	
Chloroethane	1.	U	1		1	
2-Chloroethylvinyl ether	10.	U	1		10	
Chloroform	1.	U	1		1	
Chloromethane	10.	U	1		10	
Dibromochloromethane	1.	U	1		1	
1,2-Dichlorobenzene	5.	U	1		5	
1,3-Dichlorobenzene	5.	U	1		5	
1,4-Dichlorobenzene	5.	U	1		5	
Dichlorodifluoromethane	10.	U	1		10	
1,1-Dichloroethane	1.	U	1		1	
1,2-Dichloroethane	1.	U	1		1	
1,1-Dichloroethylene	1.	U	1		1	
cis-1,2-Dichloroethylene	1.	U	1		1	
trans-1,2-Dichloroethylene	1.	U	1		1	
Dichloromethane	1.	U	1		1	
1,2-Dichloropropane	1.	U	1		1	
cis-1,3-Dichloropropylene	1.	U	1		1	
trans-1,3-Dichloropropylene	1.	U	1		1	
Ethylbenzene	1.	U	1		1	
1,1,2,2-Tetrachloroethane	1.	U	1		1	
Tetrachloroethylene	1.	U	1		1	
Toluene	1.	U	1		1	
1,1,1-Trichloroethane	1.	U	1		1	

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 21,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9142
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/07/99
Received: 04/07/99
Prepared:
Analyzed: 04/20/99

Matrix: Water
QC Batch: 042099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	1.	U	1		1	
Trichloroethylene	1.	U	1		1	
Trichlorofluoromethane	1.	U	1		1	
Vinyl Chloride	1.	U	1		1	
Xylenes (total)	3.	U	1		3	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	107.%		1	69-118	
Fluorobenzene (surrogate)	99.%		1	85-119	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 21,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9144
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 04/07/99
Received: 04/07/99

Matrix: Water
%Solids:
Number of analytes: 11

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	200.7	04/16/99	04/20/99	041699W1	1	
Chromium	<.01	200.7	04/16/99	04/20/99	041699W1	1	
Cobalt	<.01	200.7	04/16/99	04/20/99	041699W1	1	
Copper	.01	200.7	04/16/99	04/20/99	041699W1	1	
Iron	.05	200.7	04/21/99	04/21/99	042199W1	1	
Lead	<.005	200.7	04/16/99	04/20/99	041699W1	1	
Mercury	<.0002	245.1	04/18/99	04/19/99	041899W2	1	
Nickel	<.05	200.7	04/16/99	04/20/99	041699W1	1	
Silver	<.01	200.7	04/16/99	04/20/99	041699W1	1	
Vanadium	<.03	200.7	04/16/99	04/20/99	041699W1	1	
Zinc	.01	200.7	04/16/99	04/20/99	041699W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 26, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9144
Samp. Description: WTP Effluent - Composite

Collected: 04/07/99 10:41
Received: 04/07/99 15:30

Matrix: Water

Parameter	Result	Qual	Units	Method	Prepared	Analyzed	QC Batch	Note
CBOD5	<5.	U	mg/L	EPA 405.1		04/08/99	040899W15	
Total Kjeldahl nitrogen	<.4	U N	mg/L	EPA 351.2	04/13/99	04/15/99	041399W6	
Total dissolved solids	460.		mg/L	EPA 160.1		04/13/99	041399W22	
Total suspended solids	<5.	U	mg/L	EPA 160.2		04/13/99	041399W23	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 20,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: K9145
Samp. Description: WTP Eff.- Comp. - (lab filtered)
Units: mg/L

Collected: 04/07/99
Received: 04/07/99

Matrix: Water
%Solids:
Number of analytes: 1

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	200.7	04/16/99	04/20/99	041699W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 26, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M0252
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 04/21/99
Received: 04/21/99
Prepared: 04/28/99

Matrix: Water
QC Batch: 042899W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	04/28/99	
Methylene chloride	<2.0		1	04/28/99	
trans-1,2-Dichloroethene	<.50		1	04/28/99	
cis-1,2-Dichloroethene	<.50		1	04/28/99	
Trichloroethene	<.50		1	04/28/99	
4-Methyl-2-pentanone	<5.0		1	04/28/99	
Toluene	<.50		1	04/28/99	
2-Hexanone	<5.0		1	04/28/99	
Tetrachloroethene	<.50		1	04/28/99	
1,1,2,2-Tetrachloroethane	<.50		1	04/28/99	
Dibromofluoromethane (surrogate)	89.%	61-136	1	04/28/99	
1,2-Dichloroethane-d4 (surrogate)	88.%	80-135	1	04/28/99	
Toluene-d8 (surrogate)	87.%	84-114	1	04/28/99	
Bromofluorobenzene (surrogate)	85.%	77-117	1	04/28/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: April 30,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M0253
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 04/21/99
Received: 04/21/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	04/27/99	04/28/99	042799W1	1	
Zinc	.04		.002	.01	200.7	04/27/99	04/28/99	042799W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 30, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M0253
Samp. Description: WTP Effluent - Composite

Collected: 04/21/99
Received: 04/21/99 15:35

Matrix: Water

Parameter	Result	Qual	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	400.		mg/L	EPA 160.1		04/25/99	042599W12	
Total suspended solids	<5.	U	mg/L	EPA 160.2		04/27/99	042799W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: April 30,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

FILE COPY

O'BRIEN & GERE
ENGINEERS, INC.

June 14, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed are four copies of the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of May 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through May 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\5-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
John Terwilliger - O'Brien & Gere Technical Services, Inc

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FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: May 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of May 1999, O'Brien & Gere continued operating the ground water collection and treatment system on behalf of ITT Industries. As of May 28,1999, a total of 26,461,740 gallons of ground water has been treated since startup on February 5, 1996. During the period since the monthly progress report for April 1999, 592,440 gallons of groundwater was treated.

2. During the month of May 1999, O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the groundwater treatment system effluent are discussed in Item b.

3. O'Brien & Gere Technical Services completed construction of the groundwater collection trench and sump between the former PAH/VOC/PCB Soils Area and Bishop Brook. Remaining work to be completed includes installing the electrical conduit and forcemain to the existing treatment building. Presently, approximately 300 cubic yards of soil excavated during construction of the groundwater collection trench is being stockpiled on site pending the results of laboratory analyses, and determination regarding if the material can be placed within the CAMU established on site. In accordance with the NYSDEC-approved Work Plan, three samples of the stockpiled soil were collected using USEPA sample preservation method 5035 and submitted for volatile organic compound analysis using USEPA method 8260.

4. The NYSDEC provided a letter dated May 28, 1999 approving the proposal to complete the one time requirement to collect an influent and effluent sample for PCB analysis from the groundwater collection system in October 1999.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in May 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

2. The groundwater levels recorded in connection with the April 23, 1999 semi-annual sampling event are summarized in Table 2. Monitoring well MW-19 was dry and a groundwater sample could not be collected for analysis.

3. The analytical results associated with the April 23, 1999 semi-annual sampling event of monitoring wells MW-6, MW-9, MW-10, MW-11, MW-14, MW-17, MW-18, MW-21, MW-22 and MW-24 and the sump are summarized in Tables 3 and 4. Monitoring well MW-19 was dry and a groundwater sample could not be collected for analysis. The laboratory analytical data sheets are provided as Attachment B.

(c) Projected Activities within next 45 days

1. Groundwater monitoring activities will continue to be performed in accordance with the NYSDEC-approved Sampling & Analysis Plan dated March 1996, as modified in accordance with the recommendations of the Annual Report for 1997 submitted to the NYSDEC on January 27, 1998. Also, the treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

2. Continue operation of the groundwater recovery and treatment system.

3. Complete construction activities connected with the groundwater collection trench installation.

(d) Activities in support of Community Relations Plan

1. None

(e) Exceedences to SPDES Fact Sheet Limits

1. None

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

ATTACHMENT B

SEMI-ANNUAL GROUNDWATER QUALITY MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 05/05/99	Effluent 05/06/99	Effluent 05/11/99	Effluent 05/12/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	---	27760	28010	---
pH (SU)	6.5 - 8.5		2/Week	Grab	---	7.82	7.8	---
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	500	---	---	510
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	0.0002 U	---	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	0.03	---	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	0.50 U	---	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	10 U	---	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 05/13/99	Effluent 05/18/99	Effluent 05/19/99	Effluent 05/20/99	Effluent 05/25/99	Effluent 05/26/99	Effluent 05/27/99	Effluent 06/01/99
Flow (GPD)	27920	27370	---	27310	27030	---	27280	27185
pH (SU)	7.82	7.82	---	7.82	7.82	---	7.83	7.85
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	---	---	500	---	---	480	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.04	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
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Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Elevation (ft)	Well Casing Elevation (ft)	Screened Interval Elevation (ft)	Ground Water Elevation (ft) 05/28/92	Ground Water Elevation (ft) 06/26/92	Ground Water Elevation (ft) 08/07/92	Ground Water Elevation (ft) 09/26/94	Ground Water Elevation (ft) 09/27/94	Ground Water Elevation (ft) 10/18/94
MW-01	99.36	101.11	75.4 - 85.4	DRY	DRY	79.69	---	---	DRY
MW-02	91.80	94.68	76.6 - 86.6	83.21	82.81	84.32	83.10	83.28	80.12
MW-03	97.65	99.63	73.7 - 83.7	80.44	80.09	81.63	AB	AB	AB
MW-04	65.62	68.52	46.6 - 56.6	51.08	49.95	50.81	47.22	52.21	46.79
MW-05	88.21	90.42	49.2 - 59.2	60.71	63.76	61.22	59.87	59.91	59.45
MW-06	77.46	79.38	46.4 - 56.4	60.50	60.49	60.46	59.51	59.52	59.05
MW-07 (B)	75.66	78.34	34.3 - 44.3	54.59	54.55	54.47	53.90	53.97	53.55
MW-08	88.21	91.78	53.9 - 63.9	66.38	66.38	66.83	61.59	61.65	60.99
MW-09	102.44	104.03	49.7 - 59.7	60.46	60.51	61.83	59.57	59.59	59.08
MW-10 (B)	97.51	97.27	43.0 - 53.0	61.15	61.99	61.69	---	---	56.02
MW-11 (B)	91.48	93.80	43.1 - 53.1	62.34	63.70	63.66	58.41	58.39	57.47
MW-12	93.62	94.14	51.9 - 61.9	62.24	60.74	62.77	59.77	59.79	59.31
MW-13	98.80	98.70	77.7 - 87.7	DRY	80.62	80.92	---	---	78.70
MW-14	98.76	100.62	74.6 - 84.6	75.11	79.07	81.54	---	---	86.18
MW-15 (B)	96.10	98.90	32.7 - 42.7	NI	NI	NI	---	---	53.47
MW-16 (B)	98.50	100.85	50.8 - 60.8	NI	NI	NI	---	---	61.67
MW-17	66.90	69.24	53.7 - 63.7	NI	NI	NI	54.61	54.61	54.08
MW-18	76.50	78.29	61.5 - 71.5	NI	NI	NI	NI	NI	NI
MW-19	69.50	71.27	46.5 - 56.5	NI	NI	NI	NI	NI	NI
MW-20	70.98	72.89	51.9 - 61.9	NI	NI	NI	NI	NI	NI
MW-21	69.90	71.87	59.5 - 64.5	NI	NI	NI	NI	NI	NI
MW-22	71.50	73.34	60.9 - 65.9	NI	NI	NI	NI	NI	NI
MW-23 (B)	89.80	91.72	17.3 - 22.3	NI	NI	NI	NI	NI	NI
MW-24				---	---	---	---	---	---
PZ-01	81.80	83.95	49.8 - 59.8	NI	NI	NI	59.56	59.57	59.10
PZ-02	80.60	83.06	42.8 - 52.8	NI	NI	NI	59.35	59.36	58.89
RW-01	78.40	80.28	29.4-39.4 - 45.4-50.4	NI	NI	NI	56.88	56.89	58.22
RW-02 (B)	91.58	95.18	NA - NA	NI	NI	NI	NI	NI	NI
SUMP	NA	97.93	NA - NA	NI	NI	NI	NI	NI	NI

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 11/02/94	Ground Water Elevation (ft) 11/17/94	Ground Water Elevation (ft) 11/30/94	Ground Water Elevation (ft) 12/15/94	Ground Water Elevation (ft) 12/27/94	Ground Water Elevation (ft) 01/13/95	Ground Water Elevation (ft) 01/25/95	Ground Water Elevation (ft) 02/09/95	Ground Water Elevation (ft) 02/23/95
MW-01	---	---	---	---	---	---	---	---	---
MW-02	---	---	---	---	---	---	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	---	---	---	---	---	---	---	---
MW-05	---	---	---	---	---	---	---	---	---
MW-06	---	---	---	---	---	---	---	---	---
MW-07 (B)	---	---	---	---	---	---	---	---	---
MW-08	---	---	---	---	---	---	---	---	---
MW-09	---	---	---	---	---	---	---	---	---
MW-10 (B)	55.07	55.19	54.94	55.19	55.02	54.94	54.95	54.52	54.36
MW-11 (B)	50.01	56.68	55.59	56.63	56.55	55.63	55.63	56.13	55.63
MW-12	---	---	---	---	---	---	---	---	---
MW-13	82.92	78.21	78.21	80.92	78.34	78.25	77.83	77.84	77.75
MW-14	80.12	80.54	80.54	80.20	80.54	80.62	80.45	78.95	79.54
MW-15 (B)	---	---	---	---	---	---	---	---	---
MW-16 (B)	---	---	---	---	---	---	---	---	---
MW-17	---	---	---	---	---	---	---	---	---
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	---	---	---	---	---	---	---	---	---
PZ-01	---	---	---	---	---	---	---	---	---
PZ-02	---	---	---	---	---	---	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
SUMP	76.04	74.83	75.00	75.17	74.83	75.00	75.00	74.88	75.00

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
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Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 03/09/95	Ground Water Elevation (ft) 04/26/95	Ground Water Elevation (ft) 07/25/95	Ground Water Elevation (ft) 10/17/95	Ground Water Elevation (ft) 02/05/96	Ground Water Elevation (ft) 02/07/96	Ground Water Elevation (ft) 02/15/96	Ground Water Elevation (ft) 02/16/96	Ground Water Elevation (ft) 02/20/96
MW-01	---	DRY	DRY	DRY	77.06	76.64	75.30	DRY	DRY
MW-02	---	83.28	82.42	84.22	84.04	83.87	83.41	83.34	83.15
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	---	51.44	45.94	50.05	53.60	52.06	55.39	54.43	52.46
MW-05	---	60.34	58.78	---	61.26	61.01	60.80	60.73	60.50
MW-06	---	60.02	58.52	58.10	60.86	60.44	60.41	60.11	59.80
MW-07 (B)	---	54.51	53.27	52.71	55.16	54.67	55.03	54.52	54.45
MW-08	---	63.41	59.82	60.76	66.61	66.40	65.93	65.84	65.47
MW-09	---	60.10	58.56	58.16	60.95	60.70	60.48	60.35	60.07
MW-10 (B)	55.02	57.49	54.60	54.61	62.00	59.88	62.11	60.42	59.96
MW-11 (B)	56.55	58.86	55.72	55.31	62.63	60.37	62.67	60.88	60.35
MW-12	---	60.30	58.76	58.35	61.11	60.83	60.65	60.50	60.21
MW-13	77.67	DRY	DRY	DRY	80.00	79.98	79.91	79.90	79.88
MW-14	80.12	80.61	80.61	80.72	79.91	80.02	80.28	80.29	80.35
MW-15 (B)	---	54.71	51.60	50.47	59.24	59.37	59.79	59.63	59.56
MW-16 (B)	---	63.86	59.41	58.06	67.14	67.17	66.90	66.79	66.57
MW-17	---	59.02	57.71	DRY	60.29	60.17	59.75	59.70	59.52
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	---	---	---	---	---	---	---	---	---
PZ-01	---	60.08	58.58	58.16	60.92	60.61	60.46	60.28	59.99
PZ-02	---	59.88	58.37	57.97	60.70	60.30	60.26	59.97	59.66
RW-01	---	59.14	57.60	57.11	59.64	55.04	59.22	54.71	54.40
RW-02 (B)	NI	NI	NI	56.05	63.80	59.98	63.83	60.67	60.09
SUMP	78.00	75.09	75.25	76.94	74.67	74.68	74.64	74.63	74.63

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

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Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 02/22/96	Ground Water Elevation (ft) 02/29/96	Ground Water Elevation (ft) 03/07/96	Ground Water Elevation (ft) 03/21/96	Ground Water Elevation (ft) 04/04/96	Ground Water Elevation (ft) 04/10/96	Ground Water Elevation (ft) 04/18/96	Ground Water Elevation (ft) 05/02/96	Ground Water Elevation (ft) 06/06/96
MW-01	DRY	75.36	75.17	77.34	DRY	DRY	DRY	77.73	DRY
MW-02	83.32	83.67	83.50	84.24	83.68	83.68	84.86	85.35	83.17
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	60.37	58.14	55.10	59.26	52.66	54.43	60.28	59.70	51.63
MW-05	60.40	60.14	59.73	58.85	58.32	58.14	58.20	58.71	60.54
MW-06	59.75	59.45	58.96	58.02	57.48	57.28	57.41	58.17	59.91
MW-07 (B)	54.58	54.46	54.32	54.29	54.17	54.15	54.32	54.75	55.02
MW-08	65.42	65.12	64.68	64.76	64.10	63.83	64.08	65.43	67.07
MW-09	60.02	59.71	59.22	58.30	57.78	57.59	57.73	58.46	60.18
MW-10 (B)	59.91	59.64	59.43	59.07	58.81	58.72	58.61	59.72	62.25
MW-11 (B)	60.29	59.99	59.78	59.38	59.10	59.01	58.94	60.35	62.68
MW-12	60.16	59.86	59.37	58.44	57.93	57.74	57.86	58.59	60.33
MW-13	79.87	79.86	79.77	79.68	79.60	79.57	79.52	79.44	79.28
MW-14	80.38	80.44	80.45	80.49	80.52	80.55	78.14	79.29	80.56
MW-15 (B)	59.56	59.46	59.40	59.14	59.07	59.04	58.84	59.87	62.62
MW-16 (B)	66.52	66.39	66.17	65.99	65.99	65.90	65.84	67.02	68.40
MW-17	59.64	59.42	59.28	59.30	59.27	59.14	59.30	59.95	59.22
MW-18	NI	NI	NI	NI	NI	NI	NI	NI	72.95
MW-19	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-20	NI	NI	NI	NI	NI	NI	NI	NI	DRY
MW-21	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23 (B)	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	---	---	---	---	---	---	---	---	---
PZ-01	59.93	59.63	59.14	58.21	57.67	57.47	57.60	58.34	60.09
PZ-02	59.61	59.33	58.83	57.90	57.39	57.19	57.30	58.04	59.77
RW-01	54.35	54.05	53.58	52.76	52.24	52.03	52.11	52.69	53.82
RW-02 (B)	59.97	59.63	59.41	58.95	58.63	58.52	58.41	59.63	62.56
SUMP	75.30	74.90	74.65	74.87	74.69	74.99	75.89	75.76	74.73

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 07/16/96	Ground Water Elevation (ft) 09/05/96	Ground Water Elevation (ft) 10/21/96	Ground Water Elevation (ft) 11/19/96	Ground Water Elevation (ft) 01/16/97	Ground Water Elevation (ft) 02/04/97	Ground Water Elevation (ft) 04/15/97	Ground Water Elevation (ft) 07/08/97	Ground Water Elevation (ft) 10/22/97
MW-01	DRY	DRY	DRY	76.60	75.15	---	75.64	DRY	DRY
MW-02	83.32	82.57	83.18	84.22	83.56	---	83.81	83.09	82.84
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	52.45	DRY	55.91	55.91	53.12	---	AB	AB	AB
MW-05	58.98	56.33	55.40	56.49	59.15	---	59.83	59.16	58.34
MW-06	58.13	54.95	53.71	55.61	58.39	---	59.34	58.58	57.97
MW-07 (B)	53.95	52.44	51.22	52.68	54.28	---	54.70	52.93	50.63
MW-08	64.50	59.05	59.56	63.61	64.67	---	65.15	61.65	58.90
MW-09	58.38	55.38	54.24	56.64	58.65	---	59.60	58.76	58.00
MW-10 (B)	59.11	53.88	51.06	54.95	59.61	---	58.11	53.44	50.75
MW-11 (B)	59.53	54.72	52.88	55.85	60.15	---	58.59	55.20	52.50
MW-12	58.54	55.48	54.30	56.18	58.81	---	59.72	58.92	58.21
MW-13	79.35	79.15	79.07	80.68	80.49	---	80.33	79.84	79.53
MW-14	80.66	80.59	80.61	80.08	80.59	---	80.53	80.55	80.58
MW-15 (B)	59.24	54.83	51.58	51.99	58.83	---	59.83	56.63	50.48
MW-16 (B)	65.57	63.31	60.09	61.06	66.13	---	66.89	64.43	58.45
MW-17	58.46	57.89	55.96	58.02	59.33	---	59.64	58.33	DRY
MW-18	72.32	70.81	70.77	73.04	73.31	72.78	73.60	71.34	69.71
MW-19	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	50.26	DRY	DRY	DRY	DRY	---	AB	AB	AB
MW-21	NI	NI	NI	NI	NI	63.69	63.74	63.06	62.93
MW-22	NI	NI	NI	NI	NI	63.69	67.92	67.35	65.96
MW-23 (B)	NI	NI	NI	NI	NI	NI	37.71	35.61	32.29
MW-24	---	---	---	---	---	---	---	---	---
PZ-01	58.31	55.13	53.90	55.83	58.57	---	59.51	58.70	58.01
PZ-02	57.97	54.90	53.53	55.25	58.23	---	59.13	58.34	57.65
RW-01	51.94	48.05	41.80	47.33	50.74	---	50.30	43.34	42.03
RW-02 (B)	59.14	51.01	42.02	55.39	60.03	---	55.69	44.07	42.89
SUMP	74.78	74.56	74.85	74.77	74.71	---	74.94	75.01	74.75

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well.
Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96.
MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
ENGINEERS, INC.

Table 2
Accurate Die Casting Site
Fayetteville, New York
Ground Water Elevation Summary Table

WELL #	Ground Water Elevation (ft) 01/29/98	Ground Water Elevation (ft) 04/15/98	Ground Water Elevation (ft) 10/20/98	Ground Water Elevation (ft) 04/28/99
MW-01	DRY	DRY	DRY	DRY
MW-02	83.47	83.52	83.54	83.38
MW-03	AB	AB	AB	AB
MW-04	AB	AB	AB	AB
MW-05	60.86	61.05	60.04	59.91
MW-06	60.46	60.57	59.69	59.11
MW-07 (B)	52.90	53.82	51.76	54.57
MW-08	64.98	67.17	59.86	64.21
MW-09	60.51	60.56	59.71	59.68
MW-10 (B)	55.78	61.08	51.88	57.97
MW-11 (B)	56.75	61.73	53.98	58.36
MW-12	60.67	60.80	59.89	59.53
MW-13	78.87	78.67	78.31	78.08
MW-14	80.78	80.78	80.64	80.54
MW-15 (B)	56.34	62.10	52.58	58.94
MW-16 (B)	65.71	68.03	61.84	65.99
MW-17	59.70	59.51	57.93	58.76
MW-18	73.50	73.29	70.74	72.46
MW-19	DRY	DRY	DRY	DRY
MW-20	AB	AB	AB	AB
MW-21	63.82	63.54	63.23	63.31
MW-22	68.51	68.39	67.83	68.05
MW-23 (B)	34.95	37.95	33.57	36.76
MW-24	---	---	---	-7.38
PZ-01	60.50	60.61	59.70	59.30
PZ-02	60.22	60.34	59.46	59.03
RW-01	43.13	32.60	32.36	54.69
RW-02 (B)	52.74	59.94	44.33	56.74
SUMP	74.89	74.96	75.20	75.26

NOTES: NI-Well not installed at time of monitoring, NA-Data not available, AB-Well was abandoned, --- Water level not monitored, (B)-Bedrock ground water monitoring well. Elevations based on assumed datum. MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler). MW-03 was removed as part of the TCE Soils Interim Remedial Measure (IRM) completed in September 1994. System start-up 02/06/96; System shutdown 02/15/96; System restored 02/20/96. MW-13 casing elev. changed 06/06/96. MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
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Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	08/89 TCE ug/L	12/89 TCE ug/L	05/90 TCE ug/L	05/92 TCE ug/L	07/94 TCE ug/L	10/94 TCE ug/L	02/95 TCE ug/L	04/95 TCE ug/L	07/95 TCE ug/L
MW-01	112	ND	2	ND	---	DRY	---	DRY	DRY
MW-02	ND	ND	1	ND	---	ND	ND	ND	ND
MW-03	Product	>55000	440000	340000	AB	AB	AB	AB	AB
MW-04	---	7	43	6	270	23	13	16	---
MW-05	---	340	344	110	330	410	290	280	---
MW-06	---	700	454	510	390	360	330	280	270
MW-07 (B)	---	ND	ND	ND	ND	ND	ND	ND	ND
MW-08	---	ND	ND	ND	---	ND	ND	ND	ND
MW-09	---	109	106	60	72	74	74	84	75
MW-10 (B)	---	---	---	4500	1600	1300	1400	1200	900
MW-11 (B)	---	---	---	5200	5500	5300	4300	3900	4000
MW-12	---	---	---	36	44	35	33	30	25
MW-13	---	---	---	110	740	510	---	DRY	DRY
MW-14	---	---	---	67	150	120	79	95	140
MW-15 (B)	---	---	---	NI	---	14	11	10	17
MW-16 (B)	---	---	---	NI	---	6	17	7	18
MW-17	---	---	---	NI	260	140	200	130	160
MW-18	---	---	---	NI	NI	NI	NI	NI	NI
MW-19	---	---	---	NI	NI	NI	NI	NI	NI
MW-20	---	---	---	NI	NI	NI	NI	NI	NI
MW-21	---	---	---	NI	NI	NI	NI	NI	NI
MW-22	---	---	---	NI	NI	NI	NI	NI	NI
MW-23 (B)	---	---	---	---	---	---	---	---	---
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	---	---	---	120
PZ-02	---	---	---	---	---	---	---	490	400
RW-01	---	---	---	NI	---	---	---	---	---
RW-02 (B)	---	---	---	NI	NI	NI	NI	NI	NI
SUMP	---	---	---	NI	NI	NI	---	---	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	10/95 TCE ug/L	01/96 TCE ug/L	04/96 TCE ug/L	05/96 TCE ug/L	07/96 TCE ug/L	10/96 TCE ug/L	01/97 TCE ug/L	04/97 TCE ug/L	07/97 TCE ug/L
MW-01	DRY	---	DRY	---	DRY	DRY	---	---	DRY
MW-02	ND	---	---	---	---	ND	---	---	---
MW-03	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-04	15	---	---	---	---	62	---	AB	AB
MW-05	---	---	---	---	---	180	---	---	---
MW-06	180	170	110	---	98	71	75	52	---
MW-07 (B)	ND	---	---	---	---	ND	---	---	---
MW-08	ND	---	---	---	---	ND	---	---	---
MW-09	68	100	64	---	65	50	95	83	66
MW-10 (B)	890	900	820	---	960	1700	1900	1200	---
MW-11 (B)	2600	2500	1500	---	1400	1600	1500	800	---
MW-12	29	---	---	---	---	17	---	---	---
MW-13	DRY	---	---	---	---	370	---	---	---
MW-14	78	84	250	---	230	170	390	400	260
MW-15 (B)	7	---	---	---	---	20	---	---	---
MW-16 (B)	20	---	---	---	---	11	---	---	---
MW-17	---	180	350	---	460	300	450	220	150
MW-18	NI	NI	NI	1200	---	2900	850	410	1800
MW-19	NI	NI	NI	---	DRY	DRY	DRY	DRY	DRY
MW-20	NI	NI	NI	70	---	DRY	DRY	AB	AB
MW-21	NI	NI	NI	NI	NI	NI	NI	520	310
MW-22	NI	NI	NI	NI	NI	NI	NI	1	3
MW-23 (B)	---	---	---	---	---	---	---	ND	ND
MW-24	NI	NI	NI	NI	NI	NI	NI	NI	NI
PZ-01	---	---	---	---	---	32	---	---	---
PZ-02	---	---	---	---	---	540	---	---	---
RW-01	---	---	---	---	---	---	---	---	---
RW-02 (B)	---	---	---	---	---	---	---	---	---
SUMP	---	170	180	---	1000	---	320	180	---

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE
ENGINEERS, INC.

Table 3
Accurate Die Casting Site
Fayetteville, New York
Ground Water Trichloroethylene Concentrations

Date Sampled: / WELL #	10/97 TCE ug/L	01/98 TCE ug/L	04/98 TCE ug/L	10/98 TCE ug/L	11/98 TCE ug/L	04/99 TCE ug/L
MW-01	DRY	DRY	DRY	DRY	DRY	DRY
MW-02	ND	---	---	ND	---	---
MW-03	AB	AB	AB	AB	AB	AB
MW-04	AB	AB	AB	AB	AB	AB
MW-05	220	---	---	200	---	---
MW-06	ND	---	140	92	---	63
MW-07 (B)	ND	---	---	ND	---	---
MW-08	---	---	---	ND	---	---
MW-09	61	140	120	80	---	120
MW-10 (B)	1300	---	930	880	---	720
MW-11 (B)	1600	---	920	1100	---	740
MW-12	19	---	---	22	---	---
MW-13	760	---	---	480	---	---
MW-14	560	560	460	400	---	460
MW-15 (B)	18	---	---	21	---	---
MW-16 (B)	14	---	---	4	---	---
MW-17	---	270	800	250	---	280
MW-18	3100	1000	1100	3600	---	620
MW-19	DRY	DRY	DRY	DRY	DRY	DRY
MW-20	AB	AB	AB	AB	AB	AB
MW-21	450	120	1300	180	---	510
MW-22	8	5	10	14	---	10
MW-23 (B)	ND	ND	---	ND	---	---
MW-24	NI	NI	NI	NI	6000	4300
PZ-01	48	---	---	85	---	---
PZ-02	420	---	---	250	---	---
RW-01	---	---	---	---	---	---
RW-02 (B)	---	---	---	---	---	---
SUMP	2600	---	560	850	---	400

NOTES: ND - Not detected above method detection limit, --- - Not analyzed, NI - Not installed at time of monitoring, AB - Well was abandoned.
MW-01 through MW-16 installed during Remedial Investigation (Stearns & Wheler).
MW-03 removed as part of TCE Soils Interim Remedial Measure (IRM) completed in September 1994. Data was collected by Stearns & Wheler prior to 07/22/94.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-04 10/22/96 ug/L	MW-10 (B) 04/29/99 ug/L	MW-11 (B) 04/29/99 ug/L	MW-17 04/10/96 ug/L	MW-17 10/22/96 ug/L	MW-17 01/16/97 ug/L	MW-17 04/15/97 ug/L	MW-17 07/08/97 ug/L
cis-1,2-Dichloroethene	12	---	---	---	7	---	---	---
Chloroform	---	29	60	---	---	---	---	---
Tetrachloroethene	---	---	---	20	12	22	15	18
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-17 01/29/98 ug/L	MW-17 10/20/98 ug/L	MW-17 04/29/99 ug/L	MW-18 10/22/96 ug/L	MW-18 07/08/97 ug/L	MW-18 10/21/98 ug/L	MW-18 04/29/99 ug/L	MW-20 05/24/96 ug/L
cis-1,2-Dichloroethene	---	---	---	81	66	160	37	46
Chloroform	---	---	---	---	---	---	---	---
Tetrachloroethene	12	17	23	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-21 01/21/97 ug/L	MW-21 04/16/97 ug/L	MW-21 07/08/97 ug/L	MW-21 10/23/97 ug/L	MW-21 01/29/98 ug/L	MW-21 04/16/98 ug/L	MW-21 10/21/98 ug/L	MW-21 04/29/99 ug/L
cis-1,2-Dichloroethene	650	630	770	800	350	1400	340	2100
Chloroform	---	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	---	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-22 01/21/97 ug/L	MW-22 04/16/97 ug/L	MW-22 07/08/97 ug/L	MW-22 10/23/97 ug/L	MW-22 01/29/98 ug/L	MW-22 04/16/98 ug/L	MW-22 10/21/98 ug/L	MW-22 04/29/99 ug/L
cis-1,2-Dichloroethene	5	4	9	22	11	22	35	24
Chloroform	---	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---	---
Vinyl chloride	---	---	---	3	---	---	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

O'BRIEN & GERE ENGINEERS, INC.

Table 4
Accurate Die Casting Site
Fayetteville, New York
Other Detected Volatile Organic Compounds

Analyte	MW-24 11/09/98 ug/L	MW-24 04/29/99 ug/L
cis-1,2-Dichloroethene	2600	1600
Chloroform	---	---
Tetrachloroethene	---	---
Vinyl chloride	---	---

NOTES: --- Not detected.
MW-04 and MW-20 were abandoned and replaced by MW-21 and MW-22 on 01/20/97.

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1567
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 05/05/99
Received: 05/05/99
Prepared: 05/11/99

Matrix: Water
QC Batch: 051199W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	05/11/99	
Methylene chloride	<2.0		1	05/11/99	
trans-1,2-Dichloroethene	<.50		1	05/11/99	
cis-1,2-Dichloroethene	<.50		1	05/11/99	
Trichloroethene	<.50		1	05/11/99	
4-Methyl-2-pentanone	<5.0		1	05/11/99	
Toluene	<.50		1	05/11/99	
2-Hexanone	<5.0		1	05/11/99	
Tetrachloroethene	<.50		1	05/11/99	
1,1,2,2-Tetrachloroethane	<.50		1	05/11/99	
Dibromofluoromethane (surrogate)	108.%	61-136	1	05/11/99	
1,2-Dichloroethane-d4 (surrogate)	109.%	80-135	1	05/11/99	
Toluene-d8 (surrogate)	109.%	84-114	1	05/11/99	
Bromofluorobenzene (surrogate)	108.%	77-117	1	05/11/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: May 12, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1565
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/05/99
Received: 05/05/99
Prepared:
Analyzed: 05/18/99

Matrix: Water
QC Batch: 051899W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<50.	U	1		50.	
Bromodichloromethane	<50.	U	1		50.	
Bromoform	<500.	U	1		500.	
Bromomethane	<500.	U	1		500.	
Carbon tetrachloride	<50.	U	1		50.	
Chlorobenzene	<50.	U	1		50.	
Chloroethane	<50.	U	1		50.	
2-Chloroethylvinyl ether	<500.	U	1		500.	
Chloroform	<50.	U	1		50.	
Chloromethane	<500.	U	1		500.	
Dibromochloromethane	<50.	U	1		50.	
1,2-Dichlorobenzene	<250.	U	1		250.	
1,3-Dichlorobenzene	<250.	U	1		250.	
1,4-Dichlorobenzene	<250.	U	1		250.	
Dichlorodifluoromethane	<500.	U	1		500.	
1,1-Dichloroethane	<50.	U	1		50.	
1,2-Dichloroethane	<50.	U	1		50.	
1,1-Dichloroethylene	<50.	U	1		50.	
cis-1,2-Dichloroethylene	<50.	U	1		50.	
trans-1,2-Dichloroethylene	<50.	U	1		50.	
Dichloromethane	<50.	U	1		50.	
1,2-Dichloropropane	<50.	U	1		50.	
cis-1,3-Dichloropropylene	<50.	U	1		50.	
trans-1,3-Dichloropropylene	<50.	U	1		50.	
Ethylbenzene	<50.	U	1		50.	
1,1,2,2-Tetrachloroethane	<50.	U	1		50.	
Tetrachloroethylene	<50.	U	1		50.	
Toluene	<50.	U	1		50.	
1,1,1-Trichloroethane	<50.	U	1		50.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1565
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 05/05/99
Received: 05/05/99
Prepared:
Analyzed: 05/18/99

Matrix: Water
QC Batch: 051899W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<50.	U	1		50.	
Trichloroethylene	590.		1		50.	
Trichlorofluoromethane	<50.	U	1		50.	
Vinyl Chloride	<50.	U	1		50.	
Xylenes (total)	<150.	U	1		150.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	93.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1566
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/05/99
Received: 05/05/99
Prepared:
Analyzed: 05/18/99

Matrix: Water
QC Batch: 051899W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1566
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 05/05/99
Received: 05/05/99
Prepared:
Analyzed: 05/18/99

Matrix: Water
QC Batch: 051899W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	91.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1568
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 05/05/99
Received: 05/05/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	05/07/99	05/07/99	050799W1	1	
Zinc	.03		.002	.01	200.7	05/13/99	05/14/99	051399W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: May 15,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1568
Samp. Description: WTP Effluent - Composite

Collected: 05/05/99
Received: 05/05/99 15:25

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	500.			10	mg/L	EPA 160.1		05/11/99	051199W14	
Total suspended solids	<5.	U		5.	mg/L	EPA 160.2		05/11/99	051199W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 18,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

1693

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 637 0105

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8021	VOCs EPA METH 8021	VOCs EPA METH 8260	ZN & Hg	TSS/TDS			Comments
WTP INFLUENT	5/5/99	6:52 AM	WATER	GRAB	2	X							
WTP BETWEEN GAC'S	5/5/99	6:55 AM	WATER	GRAB	2		X						
WTP EFFLUENT	5/5/99	6:57 AM	WATER	GRAB	2			X					
WTP EFFLUENT	5/5/99	10:02 AM	WATER	COMP	1				X				
WTP EFFLUENT	5/5/99	10:05 AM	WATER	COMP	1					X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 5/5/99	Time: 1525	Received by Lab: Muriel F. Jackson	Date: 5/5/99	Time: 15:25
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M2081
Samp. Description: WTP Effluent

Collected: 05/12/99
Received: 05/12/99 15:35

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	510.			10	mg/L	EPA 160.1		05/17/99	051799W11	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		05/18/99	051899W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: May 24, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

1798

Chain of Custody

Client: O'BRIEN + GERE TECHNICAL SERVICES, INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by:

Client Contact: AL FAIRRELL JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comment
WTP EFFLUENT	5/12/95	11:00 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 5/12/95	Time: 1535	Received by Lab: Mark F. Jackson	Date: 5/12/95	Time: 15:35
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

ATTACHMENT B

SEMI-ANNUAL GROUNDWATER QUALITY MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1121
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<2.	U	1		2.	
Bromodichloromethane	<2.	U	1		2.	
Bromoform	<20.	U	1		20.	
Bromomethane	<20.	U	1		20.	
Carbon tetrachloride	<2.	U	1		2.	
Chlorobenzene	<2.	U	1		2.	
Chloroethane	<2.	U	1		2.	
2-Chloroethylvinyl ether	<20.	U	1		20.	
Chloroform	<2.	U	1		2.	
Chloromethane	<20.	U	1		20.	
Dibromochloromethane	<2.	U	1		2.	
1,2-Dichlorobenzene	<10.	U	1		10.	
1,3-Dichlorobenzene	<10.	U	1		10.	
1,4-Dichlorobenzene	<10.	U	1		10.	
Dichlorodifluoromethane	<20.	U	1		20.	
1,1-Dichloroethane	<2.	U	1		2.	
1,2-Dichloroethane	<2.	U	1		2.	
1,1-Dichloroethylene	<2.	U	1		2.	
cis-1,2-Dichloroethylene	<2.	U	1		2.	
trans-1,2-Dichloroethylene	<2.	U	1		2.	
Dichloromethane	<2.	U	1		2.	
1,2-Dichloropropane	<2.	U	1		2.	
cis-1,3-Dichloropropylene	<2.	U	1		2.	
trans-1,3-Dichloropropylene	<2.	U	1		2.	
Ethylbenzene	<2.	U	1		2.	
1,1,2,2-Tetrachloroethane	<2.	U	1		2.	
Tetrachloroethylene	<2.	U	1		2.	
Toluene	<2.	U	1		2.	
1,1,1-Trichloroethane	<2.	U	1		2.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1121
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<2.	U	1		2.	
Trichloroethylene	63.		1		2.	
Trichlorofluoromethane	<2.	U	1		2.	
Vinyl Chloride	<2.	U	1		2.	
Xylenes (total)	<6.	U	1		6.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	92.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1117
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<2.	U	1		2.	
Bromodichloromethane	<2.	U	1		2.	
Bromoform	<20.	U	1		20.	
Bromomethane	<20.	U	1		20.	
Carbon tetrachloride	<2.	U	1		2.	
Chlorobenzene	<2.	U	1		2.	
Chloroethane	<2.	U	1		2.	
2-Chloroethylvinyl ether	<20.	U	1		20.	
Chloroform	<2.	U	1		2.	
Chloromethane	<20.	U	1		20.	
Dibromochloromethane	<2.	U	1		2.	
1,2-Dichlorobenzene	<10.	U	1		10.	
1,3-Dichlorobenzene	<10.	U	1		10.	
1,4-Dichlorobenzene	<10.	U	1		10.	
Dichlorodifluoromethane	<20.	U	1		20.	
1,1-Dichloroethane	<2.	U	1		2.	
1,2-Dichloroethane	<2.	U	1		2.	
1,1-Dichloroethylene	<2.	U	1		2.	
cis-1,2-Dichloroethylene	<2.	U	1		2.	
trans-1,2-Dichloroethylene	<2.	U	1		2.	
Dichloromethane	<2.	U	1		2.	
1,2-Dichloropropane	<2.	U	1		2.	
cis-1,3-Dichloropropylene	<2.	U	1		2.	
trans-1,3-Dichloropropylene	<2.	U	1		2.	
Ethylbenzene	<2.	U	1		2.	
1,1,2,2-Tetrachloroethane	<2.	U	1		2.	
Tetrachloroethylene	<2.	U	1		2.	
Toluene	<2.	U	1		2.	
1,1,1-Trichloroethane	<2.	U	1		2.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1117
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<2.	U	1		2.	
Trichloroethylene	120.		1		2.	
Trichlorofluoromethane	<2.	U	1		2.	
Vinyl Chloride	<2.	U	1		2.	
Xylenes (total)	<6.	U	1		6.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	94.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1115
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/10/99

Matrix: Water
QC Batch: 051099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25	
Bromodichloromethane	<25.	U	1		25	
Bromoform	<250.	U	1		250	
Bromomethane	<250.	U	1		250	
Carbon tetrachloride	<25.	U	1		25	
Chlorobenzene	<25.	U	1		25	
Chloroethane	<25.	U	1		25	
2-Chloroethylvinyl ether	<250.	U	1		250	
Chloroform	29.		1		25	
Chloromethane	<250.	U	1		250	
Dibromochloromethane	<25.	U	1		25	
1,2-Dichlorobenzene	<120.	U	1		125	
1,3-Dichlorobenzene	<120.	U	1		125	
1,4-Dichlorobenzene	<120.	U	1		125	
Dichlorodifluoromethane	<250.	U	1		250	
1,1-Dichloroethane	<25.	U	1		25	
1,2-Dichloroethane	<25.	U	1		25	
1,1-Dichloroethylene	<25.	U	1		25	
cis-1,2-Dichloroethylene	<25.	U	1		25	
trans-1,2-Dichloroethylene	<25.	U	1		25	
Dichloromethane	<25.	U	1		25	
1,2-Dichloropropane	<25.	U	1		25	
cis-1,3-Dichloropropylene	<25.	U	1		25	
trans-1,3-Dichloropropylene	<25.	U	1		25	
Ethylbenzene	<25.	U	1		25	
1,1,2,2-Tetrachloroethane	<25.	U	1		25	
Tetrachloroethylene	<25.	U	1		25	
Toluene	<25.	U	1		25	
1,1,1-Trichloroethane	<25.	U	1		25	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1115
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/10/99

Matrix: Water
QC Batch: 051099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25	
Trichloroethylene	720.		1		25	
Trichlorofluoromethane	<25.	U	1		25	
Vinyl Chloride	<25.	U	1		25	
Xylenes (total)	<75.	U	1		75	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1116
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/10/99

Matrix: Water
QC Batch: 051099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<50.	U	1		50	
Bromodichloromethane	<50.	U	1		50	
Bromoform	<500.	U	1		500	
Bromomethane	<500.	U	1		500	
Carbon tetrachloride	<50.	U	1		50	
Chlorobenzene	<50.	U	1		50	
Chloroethane	<50.	U	1		50	
2-Chloroethylvinyl ether	<500.	U	1		500	
Chloroform	60.		1		50	
Chloromethane	<500.	U	1		500	
Dibromochloromethane	<50.	U	1		50	
1,2-Dichlorobenzene	<250.	U	1		250	
1,3-Dichlorobenzene	<250.	U	1		250	
1,4-Dichlorobenzene	<250.	U	1		250	
Dichlorodifluoromethane	<500.	U	1		500	
1,1-Dichloroethane	<50.	U	1		50	
1,2-Dichloroethane	<50.	U	1		50	
1,1-Dichloroethylene	<50.	U	1		50	
cis-1,2-Dichloroethylene	<50.	U	1		50	
trans-1,2-Dichloroethylene	<50.	U	1		50	
Dichloromethane	<50.	U	1		50	
1,2-Dichloropropane	<50.	U	1		50	
cis-1,3-Dichloropropylene	<50.	U	1		50	
trans-1,3-Dichloropropylene	<50.	U	1		50	
Ethylbenzene	<50.	U	1		50	
1,1,2,2-Tetrachloroethane	<50.	U	1		50	
Tetrachloroethylene	<50.	U	1		50	
Toluene	<50.	U	1		50	
1,1,1-Trichloroethane	<50.	U	1		50	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1116
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/10/99

Matrix: Water
QC Batch: 051099W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<50.	U	1		50	
Trichloroethylene	740.		1		50	
Trichlorofluoromethane	<50.	U	1		50	
Vinyl Chloride	<50.	U	1		50	
Xylenes (total)	<150.	U	1		150	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1119
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	<10.	U	1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1119
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	460.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1120
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	23.		1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1120
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	280.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	86.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1122
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	37.		1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1122
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	620.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	92.%		1	69-118	
Fluorobenzene (surrogate)	94.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1123
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<100.	U	1		100.	
Bromodichloromethane	<100.	U	1		100.	
Bromoform	<1000.	U	1		1000.	
Bromomethane	<1000.	U	1		1000.	
Carbon tetrachloride	<100.	U	1		100.	
Chlorobenzene	<100.	U	1		100.	
Chloroethane	<100.	U	1		100.	
2-Chloroethylvinyl ether	<1000.	U	1		1000.	
Chloroform	<100.	U	1		100.	
Chloromethane	<1000.	U	1		1000.	
Dibromochloromethane	<100.	U	1		100.	
1,2-Dichlorobenzene	<500.	U	1		500.	
1,3-Dichlorobenzene	<500.	U	1		500.	
1,4-Dichlorobenzene	<500.	U	1		500.	
Dichlorodifluoromethane	<1000.	U	1		1000.	
1,1-Dichloroethane	<100.	U	1		100.	
1,2-Dichloroethane	<100.	U	1		100.	
1,1-Dichloroethylene	<100.	U	1		100.	
cis-1,2-Dichloroethylene	2100.		1		100.	
trans-1,2-Dichloroethylene	<100.	U	1		100.	
Dichloromethane	<100.	U	1		100.	
1,2-Dichloropropane	<100.	U	1		100.	
cis-1,3-Dichloropropylene	<100.	U	1		100.	
trans-1,3-Dichloropropylene	<100.	U	1		100.	
Ethylbenzene	<100.	U	1		100.	
1,1,2,2-Tetrachloroethane	<100.	U	1		100.	
Tetrachloroethylene	<100.	U	1		100.	
Toluene	<100.	U	1		100.	
1,1,1-Trichloroethane	<100.	U	1		100.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1123
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<100.	U	1		100.	
Trichloroethylene	510.		1		100.	
Trichlorofluoromethane	<100.	U	1		100.	
Vinyl Chloride	<100.	U	1		100.	
Xylenes (total)	<300.	U	1		300.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	105.%		1	69-118	
Fluorobenzene (surrogate)	95.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1125
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	24.		1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1125
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	10.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	93.%		1	69-118	
Fluorobenzene (surrogate)	102.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1124
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<100.	U	1		100.	
Bromodichloromethane	<100.	U	1		100.	
Bromoform	<1000.	U	1		1000.	
Bromomethane	<1000.	U	1		1000.	
Carbon tetrachloride	<100.	U	1		100.	
Chlorobenzene	<100.	U	1		100.	
Chloroethane	<100.	U	1		100.	
2-Chloroethylvinyl ether	<1000.	U	1		1000.	
Chloroform	<100.	U	1		100.	
Chloromethane	<1000.	U	1		1000.	
Dibromochloromethane	<100.	U	1		100.	
1,2-Dichlorobenzene	<500.	U	1		500.	
1,3-Dichlorobenzene	<500.	U	1		500.	
1,4-Dichlorobenzene	<500.	U	1		500.	
Dichlorodifluoromethane	<1000.	U	1		1000.	
1,1-Dichloroethane	<100.	U	1		100.	
1,2-Dichloroethane	<100.	U	1		100.	
1,1-Dichloroethylene	<100.	U	1		100.	
cis-1,2-Dichloroethylene	1600.		1		100.	
trans-1,2-Dichloroethylene	<100.	U	1		100.	
Dichloromethane	<100.	U	1		100.	
1,2-Dichloropropane	<100.	U	1		100.	
cis-1,3-Dichloropropylene	<100.	U	1		100.	
trans-1,3-Dichloropropylene	<100.	U	1		100.	
Ethylbenzene	<100.	U	1		100.	
1,1,2,2-Tetrachloroethane	<100.	U	1		100.	
Tetrachloroethylene	<100.	U	1		100.	
Toluene	<100.	U	1		100.	
1,1,1-Trichloroethane	<100.	U	1		100.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1124
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<100.	U	1		100.	
Trichloroethylene	4300.		1		100.	
Trichlorofluoromethane	<100.	U	1		100.	
Vinyl Chloride	<100.	U	1		100.	
Xylenes (total)	<300.	U	1		300.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	94.%		1	69-118	
Fluorobenzene (surrogate)	95.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1118
Samp. Description: Sump
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1118
Samp. Description: Sump
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/13/99

Matrix: Water
QC Batch: 051399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	400.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	95.%		1	69-118	
Fluorobenzene (surrogate)	95.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1126
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M1126
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 04/29/99
Received: 04/29/99
Prepared:
Analyzed: 05/12/99

Matrix: Water
QC Batch: 051299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	95.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: May 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

1624

Chain of Custody

Client: OBRIEN & Gere ENGINEERS, INC.
Project: FORMER Accurate DIE CASTING
Sampled by: CHAWN ODELL
Client Contact: Tim Eddy Phone #(315) 437-6100

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: 8021B (VOCs)	Comments
MW-10	4-29-99	0750	WATER	GRAB	2	X	
MW-11	"	0830	"	"	"	X	
MW-9	"	0915	"	"	"	X	
SUMP	"	0930	"	"	"	X	
MW-14	"	0955	"	"	"	X	
MW-17	"	1030	"	"	"	X	
MW-6	"	1100	"	"	"	X	
MW-18	"	1130	"	"	"	X	
MW-21	"	1150	"	"	"	X	
MW-24	"	1210	"	"	"	X	
MW-22	"	1240	"	"	"	X	
TRIP BLANK	—	—	"	"	1	X	

Relinquished by: Chawn ODell	Date: 4-29-99	Time: 1325	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Lab: Mabel F. Jackson	Date: 4/29/99	Time. 13:25
Shipment Method:			Airbill Number:		

Turnaround Time Required:
Routine_____
Rush (Specify)_____

Comments:

Cooler Temperature: 5°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M2563
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 05/19/99
Received: 05/19/99
Prepared: 05/24/99

Matrix: Water
QC Batch: 052499W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	05/24/99	
Methylene chloride	<2.0		1	05/24/99	
trans-1,2-Dichloroethene	<.50		1	05/24/99	
cis-1,2-Dichloroethene	<.50		1	05/24/99	
Trichloroethene	<.50		1	05/24/99	
4-Methyl-2-pentanone	<5.0		1	05/24/99	
Toluene	<.50		1	05/24/99	
2-Hexanone	<5.0		1	05/24/99	
Tetrachloroethene	<.50		1	05/24/99	
1,1,2,2-Tetrachloroethane	<.50		1	05/24/99	
Dibromofluoromethane (surrogate)	101.%	61-136	1	05/24/99	
1,2-Dichloroethane-d4 (surrogate)	109.%	80-135	1	05/24/99	
Toluene-d8 (surrogate)	105.%	84-114	1	05/24/99	
Bromofluorobenzene (surrogate)	110.%	77-117	1	05/24/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: May 25,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M2564
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 05/19/99
Received: 05/19/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	05/26/99	05/27/99	052699W1	1	
Zinc	.04		.002	.01	200.7	05/26/99	05/28/99	052699W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 2, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M2564
Samp. Description: WTP Effluent - Composite

Collected: 05/19/99
Received: 05/19/99 15:22

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	500.	mg/L	EPA 160.1		05/20/99	052099W16	
Total suspended solids	<5.	mg/L	EPA 160.2		05/25/99	052599W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: June 1,1999 Monika Santucci

(1872)

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: AL FARRELL JERRY BORN Phone # 2316 682 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Analysis/Method: 2M+Hg	Analysis/Method: VOCs EPA METH 8260	Comments
WTP EFFLUENT	5/19/99		WATER	GRAB	2			X	
WTP EFFLUENT	5/19/99	10:12 AM	WATER	COMP	1		X		
WTP EFFLUENT	5/19/99	10:10 AM	WATER	COMP	1	X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JOHN F BORN	Date: 5/19/99	Time: 1522	Received by Lab: Mark F. Jackson	Date: 5/19/99	Time. 15:22
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 30C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3182
Samp. Description: WTP Effluent

Collected: 05/26/99
Received: 05/26/99 15:25

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	480.			10	mg/L	EPA 160.1		06/02/99	060299W12	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		05/28/99	052899W18	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 5,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

1963

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERV INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BOIN

Client Contact: AL FAIZELL, JERRY BOIN Phone # 2316 637 0102

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS, TDS	Comments
WTP EFFLUENT	5/26/99	10:05 am	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 5/26/99	Time: 1525	Received by Lab: Mark Jackson	Date: 5/26/99	Time: 15:25
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'BRIEN & GERE
ENGINEERS, INC.

JUL 2

July 9, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed is the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of June 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through June 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\6-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
C. Johnson, Esq. - ITT Corporation
C. Salcines - ITT Corporation
R. Alessi, Esq. - LeBoeuf, Lamb, Greene & MacRae
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
R. Cheesman, P.E. - O'Brien & Gere Technical Services, Inc

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and offices in major U.S. cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: June 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of June 1999, O'Brien & Gere continued operating the ground water collection and treatment system. As of July 1,1999, a total of 27,357,040 gallons of ground water has been treated since startup on February 5, 1996. During the period since the monthly progress report for May 1999, 895,300 gallons of groundwater was treated; 677,040 gallons from recovery well RW-1 and 218,260 gallons from RW-2. The sump outside the northeast corner of the building was dry.

2. During the month of June 1999, O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the groundwater treatment system effluent are discussed in Item b.

3. O'Brien & Gere Technical Services completed construction of the groundwater collection trench and sump between the former PAH/VOC/PCB Soils Area and Bishop Brook, including the electrical conduit and forcemain to the existing treatment building.

   Presently, approximately 300 cubic yards of soil excavated during construction of the groundwater collection trench is being stockpiled on site. In accordance with the NYSDEC-approved Work Plan, three samples of the stockpiled soil were collected using USEPA sample preservation method 5035 and submitted for volatile organic compound analysis using USEPA method 8260. Based on the analyses, the soil samples did not contain detectable concentrations of VOCs.

   The results of the laboratory analyses were presented to the NYSDEC in a letter dated June 25, 1999. Based on the results, approval from the NYSDEC was requested to place the stockpiled soil into the Corrective Action Management Unit (CAMU) at the site. Verbal approval to do so was provided by Dave Crosby of NYSDEC on July 6, 1999. A written approval from the NYSDEC is to follow.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in June 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. The treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

2. Continue operation of the groundwater recovery and treatment system.

3. Complete placing excavated soils presently staged on site into the CAMU, thereby completing the construction activities connected with the groundwater collection trench installation.

(d) Activities in support of Community Relations Plan

1. None

(e) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 06/01/99	Effluent 06/02/99	Effluent 06/03/99	Effluent 06/08/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	27185	---	27157	27550
pH (SU)	6.5 - 8.5		2/Week	Grab	7.85	---	7.85	7.85
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	520	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.03	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 06/09/99	Effluent 06/10/99	Effluent 06/15/99	Effluent 06/16/99	Effluent 06/17/99	Effluent 06/22/99	Effluent 06/23/99	Effluent 06/24/99
Flow (GPD)	---	27350	27130	---	26804	26340	---	26270
pH (SU)	---	7.85	7.85	---	7.85	7.87	---	7.85
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	490	---	---	560	---	---	510	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.02	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 06/29/99
Flow (GPD)	26148
pH (SU)	7.89
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, total (mg/L)	---
Zinc, total (mg/L)	---
cis-1,2-Dichloroethene (ug/L)	---
trans-1,2-Dichloroethene (ug/L)	---
Methylene chloride (ug/L)	---
1,1,2,2-Tetrachloroethane (ug/L)	---
Tetrachloroethene (ug/L)	---
Toluene (ug/L)	---
Trichloroethene (ug/L)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3531
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 06/02/99
Received: 06/02/99
Prepared: 06/04/99

Matrix: Water
QC Batch: 060499W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	06/04/99	
Methylene chloride	<2.0		1	06/04/99	
trans-1,2-Dichloroethene	<.50		1	06/04/99	
cis-1,2-Dichloroethene	<.50		1	06/04/99	
Trichloroethene	<.50		1	06/04/99	
4-Methyl-2-pentanone	<5.0		1	06/04/99	
Toluene	<.50		1	06/04/99	
2-Hexanone	<5.0		1	06/04/99	
Tetrachloroethene	<.50		1	06/04/99	
1,1,2,2-Tetrachloroethane	<.50		1	06/04/99	
Dibromofluoromethane (surrogate)	105.%	61-136	1	06/04/99	
1,2-Dichloroethane-d4 (surrogate)	96.%	80-135	1	06/04/99	
Toluene-d8 (surrogate)	102.%	84-114	1	06/04/99	
Bromofluorobenzene (surrogate)	98.%	77-117	1	06/04/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: June 8,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3529
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 06/02/99
Received: 06/02/99
Prepared:
Analyzed: 06/11/99

Matrix: Water
QC Batch: 061199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<50.	U	1		50.	
Bromodichloromethane	<50.	U	1		50.	
Bromoform	<500.	U	1		500.	
Bromomethane	<500.	U	1		500.	
Carbon tetrachloride	<50.	U	1		50.	
Chlorobenzene	<50.	U	1		50.	
Chloroethane	<50.	U	1		50.	
2-Chloroethylvinyl ether	<500.	U	1		500.	
Chloroform	<50.	U	1		50.	
Chloromethane	<500.	U	1		500.	
Dibromochloromethane	<50.	U	1		50.	
1,2-Dichlorobenzene	<250.	U	1		250.	
1,3-Dichlorobenzene	<250.	U	1		250.	
1,4-Dichlorobenzene	<250.	U	1		250.	
Dichlorodifluoromethane	<500.	U	1		500.	
1,1-Dichloroethane	<50.	U	1		50.	
1,2-Dichloroethane	<50.	U	1		50.	
1,1-Dichloroethylene	<50.	U	1		50.	
cis-1,2-Dichloroethylene	<50.	U	1		50.	
trans-1,2-Dichloroethylene	<50.	U	1		50.	
Dichloromethane	<50.	U	1		50.	
1,2-Dichloropropane	<50.	U	1		50.	
cis-1,3-Dichloropropylene	<50.	U	1		50.	
trans-1,3-Dichloropropylene	<50.	U	1		50.	
Ethylbenzene	<50.	U	1		50.	
1,1,2,2-Tetrachloroethane	<50.	U	1		50.	
Tetrachloroethylene	<50.	U	1		50.	
Toluene	<50.	U	1		50.	
1,1,1-Trichloroethane	<50.	U	1		50.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3529
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 06/02/99
Received: 06/02/99
Prepared:
Analyzed: 06/11/99

Matrix: Water
QC Batch: 061199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<50.	U	1		50.	
Trichloroethylene	510.		1		50.	
Trichlorofluoromethane	<50.	U	1		50.	
Vinyl Chloride	<50.	U	1		50.	
Xylenes (total)	<150.	U	1		150.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	85.%		1	69-118	
Fluorobenzene (surrogate)	95.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3530
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 06/02/99
Received: 06/02/99
Prepared:
Analyzed: 06/11/99

Matrix: Water
QC Batch: 061199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3530
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 06/02/99
Received: 06/02/99
Prepared:
Analyzed: 06/11/99

Matrix: Water
QC Batch: 061199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	88.%		1	69-118	
Fluorobenzene (surrogate)	96.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: June 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3532
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 06/02/99
Received: 06/02/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	06/07/99	06/07/99	060799W1	1	
Zinc	.03		.002	.01	200.7	06/09/99	06/10/99	060999W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 11,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M3532
Samp. Description: WTP Effluent - Composite

Collected: 06/02/99
Received: 06/02/99 15:20

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	520.			10	mg/L	EPA 160.1		06/07/99	060799W11	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		06/08/99	060899W11	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 11, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

2018

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: AL FARRELL, JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8021	VOCs EPA METH 8021	VOCs EPA METH 8260	Zn + Hg	TSS/TDS	Comments
WTP INFLUENT	6/2/99	10:06 AM	WATER	GRAB	2	X					
WTP BETWEEN GAC's	6/2/99	7:09 AM	WATER	GRAB	2		X				
WTP EFFLUENT	6/2/99	7:11 AM	WATER	GRAB	2			X			
WTP EFFLUENT	6/2/99	10:12 AM	WATER	~~GRAB~~ COMP	1				X		
WTP EFFLUENT	6/2/99	10:15 AM	WATER	~~GRAB~~ COMP	1					X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 6/2/99	Time: 1520	Received by Lab:	Date: 6/2/99	Time: 15:20
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M4102
Samp. Description: WTP Effluent

Collected: 06/09/99
Received: 06/09/99 15:30

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	490.			10	mg/L	EPA 160.1		06/14/99	061499W19	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		06/11/99	061199W18	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 17, 1999 Monika Santucci

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O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ITT FINANCIAL (FORMER ACCURATE DIE)

Sampled by: JERRY BORN

Client Contact: JERRY BORN / AL FARRELL Phone # 6370109 2316

Analysis/Method: TSS, HDS

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	TSS	HDS						Comments
WTP EFFLUENT	6/9/99	11:32	WATER	COMP	1	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 6/9/99	Time: 1530	Received by Lab: Barbara Fawley	Date: 6/9/99	Time: 15:30
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M4506
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 06/16/99
Received: 06/16/99
Prepared: 06/23/99

Matrix: Water
QC Batch: 062399W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	06/23/99	
Methylene chloride	<2.0		1	06/23/99	
trans-1,2-Dichloroethene	<.50		1	06/23/99	
cis-1,2-Dichloroethene	<.50		1	06/23/99	
Trichloroethene	<.50		1	06/23/99	
4-Methyl-2-pentanone	<5.0		1	06/23/99	
Toluene	<.50		1	06/23/99	
2-Hexanone	<5.0		1	06/23/99	
Tetrachloroethene	<.50		1	06/23/99	
1,1,2,2-Tetrachloroethane	<.50		1	06/23/99	
Dibromofluoromethane (surrogate)	106.%	61-136	1	06/23/99	
1,2-Dichloroethane-d4 (surrogate)	89.%	80-135	1	06/23/99	
Toluene-d8 (surrogate)	98.%	84-114	1	06/23/99	
Bromofluorobenzene (surrogate)	102.%	77-117	1	06/23/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: June 25,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M4507
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 06/16/99
Received: 06/16/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	06/22/99	06/23/99	062299W2	1	
Zinc	.02		.002	.01	200.7	06/22/99	06/23/99	062299W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 25, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M4507
Samp. Description: WTP Effluent - Composite

Collected: 06/16/99
Received: 06/16/99 15:40

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	560.			10	mg/L	EPA 160.1		06/21/99	062199W13	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		06/21/99	062199W11	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: June 24,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

2180

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC
Project: ITT FINANCIAL (FORMER ACCURATE DIE
Sampled by: JERRY BORN
Client Contact: AL FARRELL / JERRY BORN — Phone # 2316 / 6370109

Sample Description / **Analysis/Method**

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8260	TSS/TDS	Zn + Hg					Comments
WTP EFFLUENT	6/16/99	8:20 AM	WATER	GRAB	2	X							
" "	6/16/99	11:30 AM	WATER	COMP			X						
" "	6/16/99	11:30 AM	WATER	COMP				X					
~~" "~~	~~6/16/99~~		~~WATER~~										

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry Born	Date: 6/16/99	Time: 1540	Received by Lab: Thomas [illegible]	Date: 6/16/99	Time: 1540

Shipment Method: HAND DELIVERED
Airbill Number:

Turnaround Time Required:
Routine ✓
Rush (Specify)

Comments:

Cooler Temperature: 3°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M4889
Samp. Description: WTP Effluent

Collected: 06/23/99
Received: 06/23/99 15:35

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	510.			10	mg/L	EPA 160.1		06/29/99	062999W20	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		06/30/99	063099W11	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: _____
Date: July 3,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

(2244)

Client: O'BRIEN & GERE TECHNICAL SERV INC

Project: (FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FITZERELL JERRY BORN Phone # 2316 637 0107

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
GTP EFFLUENT	6/23/99	11:30 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 6/23/99	Time: 1535	Received by Lab: Maria F Jackson	Date: 6/23/99	Time: 15:35
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3.0°C

Original-Laboratory Copy-Client

O'BRIEN & GERE
ENGINEERS, INC.

August 10, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed is the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of July 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through July 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

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Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
M. Peters, Esq. - LeBoeuf, Lamb, Greene & MacRae
C. Johnson, Esq. - ITT Industries, Inc.
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
R. Cheesman, P.E. - O'Brien & Gere Technical Services, Inc

O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5600 Britton Parkway, Hamburg, P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 FAX (315) 437-7581 e-mail www.obg.com
and offices in major cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Report for: July 1999

Monthly Activities Performed/Correspondences with NYSDEC

1. During the month of July 1999, O'Brien & Gere continued operating the ground water collection and treatment system. As of July 30,1999, a total of 28,089,110 gallons of ground water has been treated since startup on February 5, 1996. Since July 1, 1999, 732,070 gallons of groundwater was treated; 561,030 gallons from recovery well RW-1, 168,830 gallons from RW-2, and 2,210 gallons from the sump outside the northeast corner of the building. No flow was recovered from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area during the period.

2. During the month of July 1999, O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the groundwater treatment system effluent are discussed in Item b.

3. O'Brien & Gere Technical Services placed approximately 300 cubic yards of soil, excavated during construction of the groundwater collection trench, into the Corrective Action Management Unit (CAMU) at the site. Approval to do so was provided by the NYSDEC in a letter dated July 14, 1999.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in July 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. The treatment system performance monitoring will continue to be conducted in accord with the SPDES Permit fact sheet, as modified on March 13, 1997 and Novembe 1997.

2. Continue operation of the groundwater recovery and treatment system.

(d) Activities in support of Community Relations Plan

1. None

(e) Exceedences to SPDES Fact Sheet Limits

1. None

0.1 U
0.06 U
0.01 U
0.01 U
0.01
0.05 U
0.005 U
0.0002 U
0.05 U
0.01 U
0.03 U
0.02

0.50 U
0.50 U
2.0 U
0.50 U
0.50 U
0.50 U
0.50 U
10 U
5.0 U
5.0 U

O'BRIEN & GERE
ENGINEERS, INC.

August 10, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed is the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of July 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through July 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\7-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
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C. Johnson, Esq. - ITT Industries, Inc.
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R. Cheesman, P.E. - O'Brien & Gere Technical Services, Inc

O'Brien & Gere Engineers, Inc. / an O'Brien & Gere company
5000 Brittonfield Parkway, P.O. Box 4873, Syracuse, New York 13221-4873
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and offices in major U.S. cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: July 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of July 1999, O'Brien & Gere continued operating the ground water collection and treatment system. As of July 30,1999, a total of 28,089,110 gallons of ground water has been treated since startup on February 5, 1996. Since July 1, 1999, 732,070 gallons of groundwater was treated; 561,030 gallons from recovery well RW-1, 168,830 gallons from RW-2, and 2,210 gallons from the sump outside the northeast corner of the building. No flow was recovered from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area during the period.

2. During the month of July 1999, O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the groundwater treatment system effluent are discussed in Item b.

3. O'Brien & Gere Technical Services placed approximately 300 cubic yards of soil, excavated during construction of the groundwater collection trench, into the Corrective Action Management Unit (CAMU) at the site. Approval to do so was provided by the NYSDEC in a letter dated July 14, 1999.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in July 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. The treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

2. Continue operation of the groundwater recovery and treatment system.

(d) Activities in support of Community Relations Plan

1. None

(e) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 07/01/99	Effluent 07/06/99	Effluent 07/07/99	Effluent 07/08/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	26390	25554	---	25941
pH (SU)	6.5 - 8.5		2/Week	Grab	7.89	7.87	---	7.87
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	---	470	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	5 U	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	0.4 U	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	9.3 U	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	9.19	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	0.1 U	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.06 U	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	0.01 U	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	0.01 U	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.01	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	0.05 U	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	0.005 U	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	---	0.0002 U	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	0.05 U	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	0.01 U	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	0.03 U	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	---	0.02	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	---	2.0 U	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	---	0.50 U	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	---	0.50 U	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	---	0.50 U	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	---	10 U	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	---	5.0 U	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 07/13/99	Effluent 07/14/99	Effluent 07/15/99	Effluent 07/20/99	Effluent 07/21/99	Effluent 07/22/99	Effluent 07/27/99	Effluent 07/28/99
Flow (GPD)	25580	---	25469	25110	---	24960	24618	---
pH (SU)	7.89	---	7.89	7.89	---	7.89	7.89	---
Residue, non-filterable (mg/L)	---	5.0 U	---	---	5 U	---	---	5 U
Total dissolved solids (TDS) (mg/L)	---	540	---	---	580	---	---	700
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	---	0.0002 U	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	---	0.02	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Methylene chloride (ug/L)	---	---	---	---	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	---	0.50 U	---	---	---
Tetrachloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Toluene (ug/L)	---	---	---	---	0.50 U	---	---	---
Trichloroethene (ug/L)	---	---	---	---	0.50 U	---	---	---
Acetone (ug/L)	---	---	---	---	10 U	---	---	---
2-Hexanone (ug/L)	---	---	---	---	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	---	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 07/29/99
Flow (GPD)	24080
pH (SU)	7.89
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, total (mg/L)	---
Zinc, total (mg/L)	---
cis-1,2-Dichloroethene (ug/L)	---
trans-1,2-Dichloroethene (ug/L)	---
Methylene chloride (ug/L)	---
1,1,2,2-Tetrachloroethane (ug/L)	---
Tetrachloroethene (ug/L)	---
Toluene (ug/L)	---
Trichloroethene (ug/L)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6097
Samp. Description: WTP Effluent - Composite

Collected: 07/07/99 11:10
Received: 07/07/99 15:35

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
CBOD5	<5.	mg/L	EPA 405.1		07/08/99	070899W19	
Total Kjeldahl nitrogen	<.4	mg/L	EPA 351.2	07/13/99	07/15/99	071399W4	
Total dissolved solids	470.	mg/L	EPA 160.1		07/13/99	071399W15	
Total suspended solids	<5.	mg/L	EPA 160.2		07/13/99	071399W12	

Notes:

J-Estimated value

Authorized: [signature]
Date: July 21, 1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6097
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 07/07/99
Received: 07/07/99

Matrix: Water
%Solids:
Number of analytes: 11

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	U	.003	.06	200.7	07/11/99	07/12/99	071199W1	1	
Chromium	<.01	U	.001	.01	200.7	07/11/99	07/12/99	071199W1	1	
Cobalt	<.01	U	.001	.01	200.7	07/11/99	07/12/99	071199W1	1	
Copper	.01		.001	.01	200.7	07/11/99	07/12/99	071199W1	1	
Iron	<.05	U	.018	.05	200.7	07/11/99	07/12/99	071199W1	1	
Lead	<.005	U	.0022	.005	200.7	07/11/99	07/12/99	071199W1	1	
Mercury	<.0002	U	.0001	.0002	245.1	07/14/99	07/15/99	071499W1	1	
Nickel	<.05	U	.001	.05	200.7	07/11/99	07/12/99	071199W1	1	
Silver	<.01	U	.001	.01	200.7	07/11/99	07/12/99	071199W1	1	
Vanadium	<.03	U	.0003	.03	200.7	07/11/99	07/12/99	071199W1	1	
Zinc	.02		.002	.01	200.7	07/11/99	07/12/99	071199W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: July 16,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6098
Samp. Description: WTP Effluent (Filtered)
Units: mg/L

Collected: 07/07/99
Received: 07/07/99

Matrix: Water
%Solids:
Number of analytes: 1

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	U	.02	.1	200.7	07/11/99	07/12/99	071199W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: July 16, 1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6094
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/07/99
Received: 07/07/99
Prepared:
Analyzed: 07/16/99

Matrix: Water
QC Batch: 071699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<50.	U	1		50.	
Bromodichloromethane	<50.	U	1		50.	
Bromoform	<500.	U	1		500.	
Bromomethane	<500.	U	1		500.	
Carbon tetrachloride	<50.	U	1		50.	
Chlorobenzene	<50.	U	1		50.	
Chloroethane	<50.	U	1		50.	
2-Chloroethylvinyl ether	<500.	U	1		500.	
Chloroform	<50.	U	1		50.	
Chloromethane	<500.	U	1		500.	
Dibromochloromethane	<50.	U	1		50.	
1,2-Dichlorobenzene	<250.	U	1		250.	
1,3-Dichlorobenzene	<250.	U	1		250.	
1,4-Dichlorobenzene	<250.	U	1		250.	
Dichlorodifluoromethane	<500.	U	1		500.	
1,1-Dichloroethane	<50.	U	1		50.	
1,2-Dichloroethane	<50.	U	1		50.	
1,1-Dichloroethylene	<50.	U	1		50.	
cis-1,2-Dichloroethylene	<50.	U	1		50.	
trans-1,2-Dichloroethylene	<50.	U	1		50.	
Dichloromethane	<50.	U	1		50.	
1,2-Dichloropropane	<50.	U	1		50.	
cis-1,3-Dichloropropylene	<50.	U	1		50.	
trans-1,3-Dichloropropylene	<50.	U	1		50.	
Ethylbenzene	<50.	U	1		50.	
1,1,2,2-Tetrachloroethane	<50.	U	1		50.	
Tetrachloroethylene	<50.	U	1		50.	
Toluene	<50.	U	1		50.	
1,1,1-Trichloroethane	<50.	U	1		50.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6094
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 07/07/99
Received: 07/07/99
Prepared:
Analyzed: 07/16/99

Matrix: Water
QC Batch: 071699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<50.	U	1		50.	
Trichloroethylene	530.		1		50.	
Trichlorofluoromethane	<50.	U	1		50.	
Vinyl Chloride	<50.	U	1		50.	
Xylenes (total)	<150.	U	1		150.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	101.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6095
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/07/99
Received: 07/07/99
Prepared:
Analyzed: 07/16/99

Matrix: Water
QC Batch: 071699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	2.		1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 19,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6095
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 07/07/99
Received: 07/07/99
Prepared:
Analyzed: 07/16/99

Matrix: Water
QC Batch: 071699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	15.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	102.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: July 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M6096
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 07/07/99
Received: 07/07/99
Prepared: 07/14/99

Matrix: Water
QC Batch: 071499W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	07/14/99	
Methylene chloride	<2.0		1	07/14/99	
trans-1,2-Dichloroethene	<.50		1	07/14/99	
cis-1,2-Dichloroethene	<.50		1	07/14/99	
Trichloroethene	<.50		1	07/14/99	
4-Methyl-2-pentanone	<5.0		1	07/14/99	
Toluene	<.50		1	07/14/99	
2-Hexanone	<5.0		1	07/14/99	
Tetrachloroethene	<.50		1	07/14/99	
1,1,2,2-Tetrachloroethane	<.50		1	07/14/99	
Dibromofluoromethane (surrogate)	99.%	61-136	1	07/14/99	
1,2-Dichloroethane-d4 (surrogate)	96.%	80-135	1	07/14/99	
Toluene-d8 (surrogate)	97.%	84-114	1	07/14/99	
Bromofluorobenzene (surrogate)	91.%	77-117	1	07/14/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: July 15,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M7102
Samp. Description: WTP Effluent

Collected: 07/14/99
Received: 07/14/99 15:40

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	540.			10	mg/L	EPA 160.1		07/20/99	072099W14	
Total suspended solids	<5.0	U		5	mg/L	EPA 160.2		07/19/99	071999W12	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: July 24,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M7733
Samp. Description: WTP Effluent - Composite

Collected: 07/21/99
Received: 07/21/99 15:20

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	580.	mg/L	EPA 160.1		07/27/99	072799W12	
Total suspended solids	<5.	mg/L	EPA 160.2		07/27/99	072799W13	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 5, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M7733
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 07/21/99
Received: 07/21/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	07/29/99	07/28/99	072799W3	1	
Zinc	.02		.002	.01	200.7	07/26/99	07/28/99	072699W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: August 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M7732
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 07/21/99
Received: 07/21/99
Prepared: 07/23/99

Matrix: Water
QC Batch: 072399W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	07/23/99	
Methylene chloride	<2.0		1	07/23/99	
trans-1,2-Dichloroethene	<.50		1	07/23/99	
cis-1,2-Dichloroethene	<.50		1	07/23/99	
Trichloroethene	<.50		1	07/23/99	
4-Methyl-2-pentanone	<5.0		1	07/23/99	
Toluene	<.50		1	07/23/99	
2-Hexanone	<5.0		1	07/23/99	
Tetrachloroethene	<.50		1	07/23/99	
1,1,2,2-Tetrachloroethane	<.50		1	07/23/99	
Dibromofluoromethane (surrogate)	97.%	61-136	1	07/23/99	
1,2-Dichloroethane-d4 (surrogate)	95.%	80-135	1	07/23/99	
Toluene-d8 (surrogate)	95.%	84-114	1	07/23/99	
Bromofluorobenzene (surrogate)	90.%	77-117	1	07/23/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: July 26,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8330
Samp. Description: WTP Effluent

Collected: 07/28/99
Received: 07/28/99 15:15

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	700.	mg/L	EPA 160.1		08/02/99	080299W11	
Total suspended solids	<5.	mg/L	EPA 160.2		08/03/99	080399W18	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 7, 1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'BRIEN & GERE
ENGINEERS, INC.

SEP 16

September 10, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

Enclosed is the monthly progress report, required by the Order on Consent (#A7-0318-94-10) for the former Accurate Die Casting site in Fayetteville, New York, for the month of August 1999. Included in the progress report are the results of the monitoring activities associated with the SPDES Fact Sheet for the ground water treatment system through August 1999. If you have any questions regarding these reports, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\8-99MOR.WPD
Attachments

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH
T. Brown, P.E. - O'Brien & Gere Technical Services, Inc.
R. Cheesman, P.E. - O'Brien & Gere Technical Services, Inc

O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
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... and offices in major U.S. cities

FORMER ACCURATE DIE CASTING SITE
FAYETTEVILLE, NEW YORK

Monthly Progress Report for: August 1999

(a) Activities Performed/Correspondences with NYSDEC

1. During the month of August 1999, O'Brien & Gere continued operating the ground water collection and treatment system. As of August 31,1999, a total of 28,775,820 gallons of ground water has been treated since startup on February 5, 1996. Since July 30, 1999, 686,710 gallons of groundwater was treated; 562,080 gallons from recovery well RW-1 and 124,630 gallons from RW-2. No flow was recovered during the period from the sump outside the northeast corner of the building, or from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.

2. During the month of August 1999, O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052) required by the Consent Order. The results of the SPDES sampling of the groundwater treatment system effluent are discussed in Item b.

(b) Sampling and Test Results

1. The analytical results associated with the SPDES Fact Sheet monitoring activities performed in August 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

(c) Projected Activities within next 45 days

1. The treatment system performance monitoring will continue to be conducted in accordance with the SPDES Permit fact sheet, as modified on March 13, 1997 and November 21, 1997.

2. Continue operation of the groundwater recovery and treatment system.

(d) Activities in support of Community Relations Plan

1. None

(e) Exceedences to SPDES Fact Sheet Limits

1. None

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 08/03/99	Effluent 08/04/99	Effluent 08/05/99	Effluent 08/10/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	23220	---	22929	22110
pH (SU)	6.5 - 8.5		2/Week	Grab	7.89	---	7.89	7.91
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	540	---	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	9.58	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.04	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 08/11/99	Effluent 08/12/99	Effluent 08/17/99	Effluent 08/18/99	Effluent 08/19/99	Effluent 08/24/99	Effluent 08/25/99	Effluent 08/26/99
Flow (GPD)	---	21890	21210	---	20900	20310	---	20050
pH (SU)	---	7.89	7.89	---	7.89	7.89	---	7.89
Residue, non-filterable (mg/L)	5 U	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	630	---	---	730	---	---	690	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	---	0.0003	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	---	0.05	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 08/31/99
Flow (GPD)	19480
pH (SU)	7.93
Residue, non-filterable (mg/L)	---
Total dissolved solids (TDS) (mg/L)	---
CBOD5 (mg/L)	---
TKN (mg/L)	---
TOD (mg/L)	---
Dissolved Oxygen (mg/L)	---
Aluminum, dissolved (mg/L)	---
Antimony, total (mg/L)	---
Chromium, total (mg/L)	---
Cobalt, total (mg/L)	---
Copper, total (mg/L)	---
Iron, total (mg/L)	---
Lead, total (mg/L)	---
Mercury, total (mg/L)	---
Nickel, total (mg/L)	---
Silver, total (mg/L)	---
Vanadium, total (mg/L)	---
Zinc, total (mg/L)	---
cis-1,2-Dichloroethene (ug/L)	---
trans-1,2-Dichloroethene (ug/L)	---
Methylene chloride (ug/L)	---
1,1,2,2-Tetrachloroethane (ug/L)	---
Tetrachloroethene (ug/L)	---
Toluene (ug/L)	---
Trichloroethene (ug/L)	---
Acetone (ug/L)	---
2-Hexanone (ug/L)	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8792
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 08/04/99
Received: 08/04/99
Prepared:
Analyzed: 08/17/99

Matrix: Water
QC Batch: 081799W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 18,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8792
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 08/04/99
Received: 08/04/99
Prepared:
Analyzed: 08/17/99

Matrix: Water
QC Batch: 081799W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	420.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	93.%		1	69-118	
Fluorobenzene (surrogate)	99.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 18, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8793
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 08/04/99
Received: 08/04/99
Prepared:
Analyzed: 08/18/99

Matrix: Water
QC Batch: 081799W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<2.	U	1		2.	
Bromodichloromethane	<2.	U	1		2.	
Bromoform	<20.	U	1		20.	
Bromomethane	<20.	U	1		20.	
Carbon tetrachloride	<2.	U	1		2.	
Chlorobenzene	<2.	U	1		2.	
Chloroethane	<2.	U	1		2.	
2-Chloroethylvinyl ether	<20.	U	1		20.	
Chloroform	<2.	U	1		2.	
Chloromethane	<20.	U	1		20.	
Dibromochloromethane	<2.	U	1		2.	
1,2-Dichlorobenzene	<10.	U	1		10.	
1,3-Dichlorobenzene	<10.	U	1		10.	
1,4-Dichlorobenzene	<10.	U	1		10.	
Dichlorodifluoromethane	<20.	U	1		20.	
1,1-Dichloroethane	<2.	U	1		2.	
1,2-Dichloroethane	<2.	U	1		2.	
1,1-Dichloroethylene	<2.	U	1		2.	
cis-1,2-Dichloroethylene	3.		1		2.	
trans-1,2-Dichloroethylene	<2.	U	1		2.	
Dichloromethane	<2.	U	1		2.	
1,2-Dichloropropane	<2.	U	1		2.	
cis-1,3-Dichloropropylene	<2.	U	1		2.	
trans-1,3-Dichloropropylene	<2.	U	1		2.	
Ethylbenzene	<2.	U	1		2.	
1,1,2,2-Tetrachloroethane	<2.	U	1		2.	
Tetrachloroethylene	<2.	U	1		2.	
Toluene	<2.	U	1		2.	
1,1,1-Trichloroethane	<2.	U	1		2.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 18,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8793
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 08/04/99
Received: 08/04/99
Prepared:
Analyzed: 08/18/99

Matrix: Water
QC Batch: 081799W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<2.	U	1		2.	
Trichloroethylene	75.		1		2.	
Trichlorofluoromethane	<2.	U	1		2.	
Vinyl Chloride	<2.	U	1		2.	
Xylenes (total)	<6.	U	1		6.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: August 18,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8794
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 08/04/99
Received: 08/04/99
Prepared: 08/10/99

Matrix: Water
QC Batch: 081099W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	08/10/99	
Methylene chloride	<2.0		1	08/10/99	
trans-1,2-Dichloroethene	<.50		1	08/10/99	
cis-1,2-Dichloroethene	<.50		1	08/10/99	
Trichloroethene	<.50		1	08/10/99	
4-Methyl-2-pentanone	<5.0		1	08/10/99	
Toluene	<.50		1	08/10/99	
2-Hexanone	<5.0		1	08/10/99	
Tetrachloroethene	<.50		1	08/10/99	
1,1,2,2-Tetrachloroethane	<.50		1	08/10/99	
Dibromofluoromethane (surrogate)	92.%	61-136	1	08/10/99	
1,2-Dichloroethane-d4 (surrogate)	95.%	80-135	1	08/10/99	
Toluene-d8 (surrogate)	96.%	84-114	1	08/10/99	
Bromofluorobenzene (surrogate)	91.%	77-117	1	08/10/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: August 10,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8795
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 08/04/99
Received: 08/04/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	08/12/99	08/13/99	081299W1	1	
Zinc	.04	200.7	08/06/99	08/09/99	080699W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 19,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M8795
Samp. Description: WTP Effluent - Composite

Collected: 08/04/99
Received: 08/04/99 15:35

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	540.	mg/L	EPA 160.1		08/09/99	080999W11	
Total suspended solids	<5.	mg/L	EPA 160.2		08/09/99	080999W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 19,1999 Monika Santucci

2766

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOCs EPA METH 8021	VOCs EPA METH 8021	VOCs EPA METH 8260	#9 + ZN	TSS/TDS			Comments
WTP INFLUENT	8/4/99	6:55 AM	WATER	GRAB	2	X							
WTP BETWEEN GAC's	8/4/99	6:58 AM	WATER	GRAB	2		X						
WTP EFFLUENT	8/4/99	7:02 AM	WATER	GRAB	2			X					
WTP EFFLUENT	8/4/99	10:51 AM	WATER	COMP	1				X				
WTP EFFLUENT	8/4/99	10:53 AM	WATER	COMP	1					X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 8/4/99	Time: 15:35	Received by Lab: Barbara Pauling	Date: 8/4/99	Time: 15:35
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 4°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M9378
Samp. Description: WTP Effluent

Collected: 08/11/99
Received: 08/11/99 15:05

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	630.	mg/L	EPA 160.1		08/18/99	081899W14	
Total suspended solids	<5.	mg/L	EPA 160.2		08/17/99	081799W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 30,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

2860

Client: OBRIEN & GERE TECHNICAL SERVICES INC
Project: FORMER ACCURATE DIE
Sampled by: JERRY BORN
Client Contact: AL FARRELL, JERRY BORN Phone # 2316 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	8/11/95	10:02 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 8/11/95	Time: 1505	Received by Lab: Mark F. Jackson	Date: 8/11/95	Time: 15 05
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine: 7
Rush (Specify):

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M9792
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 08/18/99
Received: 08/18/99
Prepared: 08/25/99

Matrix: Water
QC Batch: 082599W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	08/25/99	
Methylene chloride	<2.0		1	08/25/99	
trans-1,2-Dichloroethene	<.50		1	08/25/99	
cis-1,2-Dichloroethene	<.50		1	08/25/99	
Trichloroethene	<.50		1	08/25/99	
4-Methyl-2-pentanone	<5.0		1	08/25/99	
Toluene	<.50		1	08/25/99	
2-Hexanone	<5.0		1	08/25/99	
Tetrachloroethene	<.50		1	08/25/99	
1,1,2,2-Tetrachloroethane	<.50		1	08/25/99	
Dibromofluoromethane (surrogate)	109.%	61-136	1	08/25/99	
1,2-Dichloroethane-d4 (surrogate)	107.%	80-135	1	08/25/99	
Toluene-d8 (surrogate)	106.%	84-114	1	08/25/99	
Bromofluorobenzene (surrogate)	92.%	77-117	1	08/25/99	

Notes:

- Outside control limits J-Estimated value

Authorized: /Monika Santucci/
Date: August 27,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M9793
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 08/18/99
Received: 08/18/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	.0003		.0001	.0002	245.1	08/24/99	08/24/99	082499W1	1	
Zinc	.05		.002	.01	200.7	08/23/99	08/26/99	082399W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: August 28,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: M9793
Samp. Description: WTP Effluent - Composite

Collected: 08/18/99
Received: 08/18/99 14:45

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	730.	mg/L	EPA 160.1		08/24/99	082499W15	
Total suspended solids	<5.	mg/L	EPA 160.2		08/24/99	082499W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: August 30,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

2942

Client: O'BRIEN & GERE TECHNICAL SERVICES

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARREL / JERRY BORN Phone # 2316 / 6320109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers
WTP EFFLUENT	8/18/99	7:00 AM	WATER	GRAB	2
WTP EFFLUENT	8/18/99	11:48 AM	WATER	COMP	2

Analysis/Method: VOCs EPA METH 8260 ; TSS/TDS ; Zn + Hg

Comments

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: John B Born	Date: 8/18/99	Time: 1445	Received by Lab: Mark F. Jackson	Date: 8/18/99	Time: 14:45
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)_____

Comments:

Cooler Temperature: 20°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0426
Samp. Description: WTP Effluent

Collected: 08/25/99
Received: 08/25/99 15:10

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	690.	mg/L	EPA 160.1		09/01/99	090199W14	
Total suspended solids	<5.	mg/L	EPA 160.2		09/01/99	090199W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: September 9, 1999 Monika Santucci

O'BRIEN & GERE
ENGINEERS, INC.

OCT [illegible]

October 8, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY
File: 2488/23123 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for September 1999. This report 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 ground water treatment system.

1. As of September 30,1999, a total of 29,366,530 gallons of ground water has been treated since startup on February 5, 1996. Since August 31, 1999, 590,710 gallons of groundwater was treated; 496,150 gallons from recovery well RW-1, 88,710 gallons from recovery well RW-2, and 5,850 gallons from the sump outside the northeast corner of the building. No flow was recovered during the period from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.

2. O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed in September 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\9-99MOR.WPD
Attachments
cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH

O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • http:// www.obg.com
... and offices in major U.S. cities

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 09/02/99	Effluent 09/07/99	Effluent 09/08/99	Effluent 09/09/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	19237	18895	---	18538
pH (SU)	6.5 - 8.5		2/Week	Grab	7.89	7.91	---	7.94
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	5 U	---	5 U	---
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	800	---	830	---
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	9.13	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	0.0002 U	---	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	0.04	---	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	2.0 U	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	0.50 U	---	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	0.50 U	---	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	0.50 U	---	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	10 U	---	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	5.0 U	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 09/14/99	Effluent 09/15/99	Effluent 09/16/99	Effluent 09/21/99	Effluent 09/22/99	Effluent 09/23/99	Effluent 09/28/99	Effluent 09/30/99
Flow (GPD)	18154	---	18040	20660	---	21640	20747	20554
pH (SU)	7.91	---	7.91	7.87	---	7.89	7.89	7.89
Residue, non-filterable (mg/L)	---	5 U	---	---	5 U	---	---	---
Total dissolved solids (TDS) (mg/L)	---	840	---	---	580	---	---	---
CBOD5 (mg/L)	---	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	0.0002 U	---	---	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	0.01 U	---	---	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Methylene chloride (ug/L)	---	2.0 U	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	0.50 U	---	---	---	---	---	---
Tetrachloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Toluene (ug/L)	---	0.50 U	---	---	---	---	---	---
Trichloroethene (ug/L)	---	0.50 U	---	---	---	---	---	---
Acetone (ug/L)	---	10 U	---	---	---	---	---	---
2-Hexanone (ug/L)	---	5.0 U	---	---	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0781
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 09/02/99
Received: 09/02/99
Prepared: 09/10/99

Matrix: Water
QC Batch: 091099W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	09/10/99	
Methylene chloride	<2.0		1	09/10/99	
trans-1,2-Dichloroethene	<.50		1	09/10/99	
cis-1,2-Dichloroethene	<.50		1	09/10/99	
Trichloroethene	<.50		1	09/10/99	
4-Methyl-2-pentanone	<5.0		1	09/10/99	
Toluene	<.50		1	09/10/99	
2-Hexanone	<5.0		1	09/10/99	
Tetrachloroethene	<.50		1	09/10/99	
1,1,2,2-Tetrachloroethane	<.50		1	09/10/99	
Dibromofluoromethane (surrogate)	108.%	61-136	1	09/10/99	
1,2-Dichloroethane-d4 (surrogate)	108.%	80-135	1	09/10/99	
Toluene-d8 (surrogate)	108.%	84-114	1	09/10/99	
Bromofluorobenzene (surrogate)	96.%	77-117	1	09/10/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: September 14, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0779
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 09/02/99
Received: 09/02/99
Prepared:
Analyzed: 09/13/99

Matrix: Water
QC Batch: 091399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0779
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 09/02/99
Received: 09/02/99
Prepared:
Analyzed: 09/13/99

Matrix: Water
QC Batch: 091399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	470.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	104.%		1	69-118	
Fluorobenzene (surrogate)	97.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0780
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 09/02/99
Received: 09/02/99
Prepared:
Analyzed: 09/14/99

Matrix: Water
QC Batch: 091399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0780
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 09/02/99
Received: 09/02/99
Prepared:
Analyzed: 09/14/99

Matrix: Water
QC Batch: 091399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	116.%		1	69-118	
Fluorobenzene (surrogate)	98.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: September 14,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0782
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 09/02/99
Received: 09/02/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	09/07/99	09/08/99	090799W2	1	
Zinc	.04		.002	.01	200.7	09/07/99	09/08/99	090799W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: September 11,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0782
Samp. Description: WTP Effluent - Composite

Collected: 09/02/99
Received: 09/02/99 15:30

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	800.	mg/L	EPA 160.1		09/07/99	090799W14	
Total suspended solids	<5.	mg/L	EPA 160.2		09/07/99	090799W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: September 11,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3116

Client: O'BRIEN & GERE TECHNICAL SERVICES

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	EPA METHOD 8021	EPA METHOD 8021	EPA METHOD 8260	TKN + Hg	TSS / TDS			Comments
WTP INFLUENT	9/2/99	9:32 AM	WATER	GRAB	2	+							
WTP BETWEEN GAC'S	9/2/99	9:35 AM	WATER	GRAB	2		+						
WTP EFFLUENT	9/2/99	9:37 AM	WATER	GRAB	2			+					
WTP EFFLUENT	9/2/99	1:45 PM	WATER	COMP	1				+				
WTP EFFLUENT	9/2/99	1:48 PM	WATER	COMP	1					+			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JERRY BORN	Date: 9/2/99	Time: 1530	Received by Lab: Mark R. Jackson	Date: 9/2/99	Time: 15:30
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 20°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N0909
Samp. Description: WTP Effluent

Collected: 09/08/99
Received: 09/08/99 15:10

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	830.			10	mg/L	EPA 160.1		09/13/99	091399W13	
Total suspended solids	<5.	U		5	mg/L	EPA 160.2		09/15/99	091599W11	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: September 17,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3145

Client: O'BRIEN & GERE TECHNICAL SERV. INC.

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL, JERRY BORN Phone # 2316 676 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	9/8/99	10:50 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: [signature]	Date: 9/8/99	Time: 1510	Received by Lab: Mark F Jackson	Date: 9/8/99	Time: 15:10
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N1406
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 09/15/99
Received: 09/15/99
Prepared: 09/17/99

Matrix: Water
QC Batch: 091699W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	09/17/99	
Methylene chloride	<2.0		1	09/17/99	
trans-1,2-Dichloroethene	<.50		1	09/17/99	
cis-1,2-Dichloroethene	<.50		1	09/17/99	
Trichloroethene	<.50		1	09/17/99	
4-Methyl-2-pentanone	<5.0		1	09/17/99	
Toluene	<.50		1	09/17/99	
2-Hexanone	<5.0		1	09/17/99	
Tetrachloroethene	<.50		1	09/17/99	
1,1,2,2-Tetrachloroethane	<.50		1	09/17/99	
Dibromofluoromethane (surrogate)	106.%	61-136	1	09/17/99	
1,2-Dichloroethane-d4 (surrogate)	108.%	80-135	1	09/17/99	
Toluene-d8 (surrogate)	111.%	84-114	1	09/17/99	
Bromofluorobenzene (surrogate)	88.%	77-117	1	09/17/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: September 20,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N1407
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 09/15/99
Received: 09/15/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	U	.0001	.0002	245.1	09/27/99	09/27/99	092799W1	1	
Zinc	<.01	U	.002	.01	200.7	09/17/99	09/20/99	091799W1	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: September 28, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N1407
Samp. Description: WTP Effluent - Composite

Collected: 09/15/99
Received: 09/15/99 15:25

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	840.	mg/L	EPA 160.1		09/16/99	091699W18	
Total suspended solids	<5.	mg/L	EPA 160.2		09/17/99	091799W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: September 22,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

3234

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by:

Client Contact: AL FARRELL JERRY & DAN Phone # 2316 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOCs EPA METH 8260	Zn & Ni	TSS/TDS	Comments
WTP EFFLUENT	9/15/99	7:00 AM	WATER	GRAB	2	X			
WTP EFFLUENT	9/15/99	10:25 AM	WATER	COMP	1		X		
WTP EFFLUENT	9/15/99	10:25 AM	WATER	COMP	1			X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 9/15/99	Time: 1525	Received by Lab: Daniel D. Kelter	Date: 9/15/99	Time: 15:25
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 3° C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N1995
Samp. Description: WTP Effluent

Collected: 09/22/99
Received: 09/22/99 15:20

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	580.	mg/L	EPA 160.1		09/28/99	092899W11	
Total suspended solids	<5.	mg/L	EPA 160.2		09/28/99	092899W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 6,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

3316

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECH SERV. INC.
Project: FORMER ACCURATE DIE
Sampled by: JERRY BORN
Client Contact: JERRY BORN / AL FIARELL Phone # 637 0109 2316

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS	Analysis/Method: TDS	Comments
WTP EFFLUENT	9/22/99	11:40 am	WATER	COMP	1	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JERRY BORN	Date: 9/22/99	Time: 1520	Received by Lab: Mark F. Jackson	Date: 9/22/99	Time: 15:20
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 20°

Original-Laboratory Copy-Client

O'BRIEN & GERE
ENGINEERS, INC.

1999

November 11, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for October 1999. This report 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.

1. As of October 29,1999, a total of 29,955,300 gallons of groundwater has been treated since startup on February 5, 1996. Since September 30, 1999, 588,770 gallons of groundwater was treated; 479,990 gallons from recovery well RW-1, 105,700 gallons from recovery well RW-2, and 3,080 gallons from the sump outside the northeast corner of the building. No flow was recovered during the period from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.

2. O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed in October 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

   As indicated in the facsimile to you dated October 12, 1999, collection of a groundwater treatment system influent and effluent sample for PCB analyses was postponed because of the absence of water in the interceptor trench. As requested in your May 28, 1999 letter, we will advise the NYSDEC of a sampling dated when it is determined.

3. O'Brien & Gere performed the annual round of groundwater sampling on October 19 and 20 in accordance with the requirements of the Sampling and Analysis Plan (March 1996), revised according to the NYSDEC letter dated April 1, 1997, and the recommendations of the Annual Report dated February 25,1999. The laboratory reports for the analyses completed are provided as Attachment B. The results will be evaluated and an assessment of groundwater recovery and treatment operations will be presented later to the NYSDEC in an Annual Report for 1999.

O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • http:// www.obg.com
... and offices in major U.S. cities

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

I:\DIV71\PROJECTS\2488\23123\2_CORRES\10-99MOR.WPD
Attachments
cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel - NYSDOH

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 10/05/99	Effluent 10/06/99	Effluent 10/07/99	Effluent 10/12/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	20546	---	20095	19750
pH (SU)	6.5 - 8.5		2/Week	Grab	7.89	---	7.89	7.89
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	630	---	630
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	5 U	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	0.4 U	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	9.3 U	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	10.48	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.1 U	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.06 U	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	0.01 U	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	0.01 U	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	0.05 U	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	0.005 U	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	0.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	0.05 U	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	0.01 U	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	0.03 U	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	0.01 U	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	0.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	0.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	0.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE
ENGINEERS, INC.

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

Analyte	Effluent 10/14/99	Effluent 10/19/99	Effluent 10/20/99	Effluent 10/21/99	Effluent 10/26/99	Effluent 10/27/99	Effluent 10/28/99
Flow (GPD)	19950	20509	---	20609	20270	---	20200
pH (SU)	7.89	7.89	---	7.91	7.91	---	7.91
Residue, non-filterable (mg/L)	---	---	5 U	---	---	5 U	---
Total dissolved solids (TDS) (mg/L)	---	---	560	---	---	600	---
CBOD5 (mg/L)	---	---	---	---	---	---	---
TKN (mg/L)	---	---	---	---	---	---	---
TOD (mg/L)	---	---	---	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---	---	---	---
Antimony, total (mg/L)	---	---	---	---	---	---	---
Chromium, total (mg/L)	---	---	---	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---	---	---	---
Copper, total (mg/L)	---	---	---	---	---	---	---
Iron, total (mg/L)	---	---	---	---	---	---	---
Lead, total (mg/L)	---	---	---	---	---	---	---
Mercury, total (mg/L)	---	---	0.0002 U	---	---	---	---
Nickel, total (mg/L)	---	---	---	---	---	---	---
Silver, total (mg/L)	---	---	---	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---	---	---	---
Zinc, total (mg/L)	---	---	0.01 U	---	---	---	---
cis-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
trans-1,2-Dichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Methylene chloride (ug/L)	---	---	2.0 U	---	---	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	---	0.50 U	---	---	---	---
Tetrachloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Toluene (ug/L)	---	---	0.50 U	---	---	---	---
Trichloroethene (ug/L)	---	---	0.50 U	---	---	---	---
Acetone (ug/L)	---	---	10 U	---	---	---	---
2-Hexanone (ug/L)	---	---	5.0 U	---	---	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	---	5.0 U	---	---	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2395
Samp. Description: WTP Effluent

Collected: 09/29/99
Received: 09/29/99 15:30

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	630.	mg/L	EPA 160.1		10/01/99	100199W12	
Total suspended solids	<5.	mg/L	EPA 160.2		10/05/99	100599W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 15,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3394

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	9/28/99	10:05	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JERRY BORN	Date: 9/28/99	Time: 1530	Received by Lab: Mark F. Jackson	Date: 9/29/99	Time: 15:30
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2646
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 10/06/99
Received: 10/06/99
Prepared: 10/14/99

Matrix: Water
QC Batch: 101499W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	10/14/99	
Methylene chloride	<2.0		1	10/14/99	
trans-1,2-Dichloroethene	<.50		1	10/14/99	
cis-1,2-Dichloroethene	<.50		1	10/14/99	
Trichloroethene	<.50		1	10/14/99	
4-Methyl-2-pentanone	<5.0		1	10/14/99	
Toluene	<.50		1	10/14/99	
2-Hexanone	<5.0		1	10/14/99	
Tetrachloroethene	<.50		1	10/14/99	
1,1,2,2-Tetrachloroethane	<.50		1	10/14/99	
Dibromofluoromethane (surrogate)	111.%	61-136	1	10/14/99	
1,2-Dichloroethane-d4 (surrogate)	113.%	80-135	1	10/14/99	
Toluene-d8 (surrogate)	109.%	84-114	1	10/14/99	
Bromofluorobenzene (surrogate)	98.%	77-117	1	10/14/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: October 15,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2644
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 10/06/99
Received: 10/06/99
Prepared:
Analyzed: 10/19/99

Matrix: Water
QC Batch: 101999W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<50.	U	1		50.	
Bromodichloromethane	<50.	U	1		50.	
Bromoform	<500.	U	1		500.	
Bromomethane	<500.	U	1		500.	
Carbon tetrachloride	<50.	U	1		50.	
Chlorobenzene	<50.	U	1		50.	
Chloroethane	<50.	U	1		50.	
2-Chloroethylvinyl ether	<500.	U	1		500.	
Chloroform	<50.	U	1		50.	
Chloromethane	<500.	U	1		500.	
Dibromochloromethane	<50.	U	1		50.	
1,2-Dichlorobenzene	<250.	U	1		250.	
1,3-Dichlorobenzene	<250.	U	1		250.	
1,4-Dichlorobenzene	<250.	U	1		250.	
Dichlorodifluoromethane	<500.	U	1		500.	
1,1-Dichloroethane	<50.	U	1		50.	
1,2-Dichloroethane	<50.	U	1		50.	
1,1-Dichloroethylene	<50.	U	1		50.	
cis-1,2-Dichloroethylene	<50.	U	1		50.	
trans-1,2-Dichloroethylene	<50.	U	1		50.	
Dichloromethane	<50.	U	1		50.	
1,2-Dichloropropane	<50.	U	1		50.	
cis-1,3-Dichloropropylene	<50.	U	1		50.	
trans-1,3-Dichloropropylene	<50.	U	1		50.	
Ethylbenzene	<50.	U	1		50.	
1,1,2,2-Tetrachloroethane	<50.	U	1		50.	
Tetrachloroethylene	<50.	U	1		50.	
Toluene	<50.	U	1		50.	
1,1,1-Trichloroethane	<50.	U	1		50.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: October 20, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2644
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 50 Instrument: 9001

Collected: 10/06/99
Received: 10/06/99
Prepared:
Analyzed: 10/19/99

Matrix: Water
QC Batch: 101999W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<50.	U	1		50.	
Trichloroethylene	350.		1		50.	
Trichlorofluoromethane	<50.	U	1		50.	
Vinyl Chloride	<50.	U	1		50.	
Xylenes (total)	<150.	U	1		150.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	106.%		1	69-118	
Fluorobenzene (surrogate)	101.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: October 20, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2645
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/06/99
Received: 10/06/99
Prepared:
Analyzed: 10/19/99

Matrix: Water
QC Batch: 101999W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: October 20,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2645
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/06/99
Received: 10/06/99
Prepared:
Analyzed: 10/19/99

Matrix: Water
QC Batch: 101999W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	111.%		1	69-118	
Fluorobenzene (surrogate)	100.%		1	85-119	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: October 20, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2647
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 10/06/99
Received: 10/06/99

Matrix: Water
%Solids:
Number of analytes: 11

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Antimony	<.06	U	.0026	.06	200.7	10/15/99	10/18/99	101599W2	1	
Chromium	<.01	U	.0015	.01	200.7	10/15/99	10/18/99	101599W2	1	
Cobalt	<.01	U	.0012	.01	200.7	10/15/99	10/18/99	101599W2	1	
Copper	<.01	U	.0006	.01	200.7	10/15/99	10/18/99	101599W2	1	
Iron	<.05	U	.0175	.05	200.7	10/15/99	10/18/99	101599W2	1	
Lead	<.005	U	.0021	.005	200.7	10/15/99	10/18/99	101599W2	1	
Mercury	<.0002	U	.0001	.0002	245.1	10/14/99	10/15/99	101499W2	1	
Nickel	<.05	U	.001	.05	200.7	10/15/99	10/18/99	101599W2	1	
Silver	<.01	U	.0006	.01	200.7	10/15/99	10/18/99	101599W2	1	
Vanadium	<.03	U	.0003	.03	200.7	10/15/99	10/18/99	101599W2	1	
Zinc	<.01	U	.002	.01	200.7	10/15/99	10/18/99	101599W2	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: October 19,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2647
Samp. Description: WTP Effluent - Composite

Collected: 10/06/99 13:00
Received: 10/06/99 15:40

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
CBOD5	<5.	mg/L	EPA 405.1		10/08/99	100899W14	
Total Kjeldahl nitrogen	<.4	mg/L	EPA 351.2	10/18/99	10/21/99	102199W4	
Total dissolved solids	630.	mg/L	EPA 160.1		10/12/99	101299W15	
Total suspended solids	<5.	mg/L	EPA 160.2		10/13/99	101399W13	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 22,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2648
Samp. Description: WTP Effluent - Composite (lab filtered)
Units: mg/L

Collected: 10/06/99
Received: 10/06/99

Matrix: Water
%Solids:
Number of analytes: 1

Parameter	Result	Qual	MDL	RL	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Aluminum, filtered	<.1	U	.019	.1	200.7	10/15/99	10/18/99	101599W2	1	

Notes:

U-Undetected at the reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: October 19, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

3456.

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECH SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL, JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs (EPA Meth 8021)	VOCs EPA Meth 8021	VOCs EPA Meth 8260	TSS/TDS	cBODs / Alum Filtered	METALS	TKN	Comments
WTP INFLUENT	10/6/99	8:52 AM	WATER	GRAB	2	X							
WTP BETWEEN GAC's	10/6/99	855 AM	WATER	GRAB	2		X						
WTP EFFLUENT	10/6/99	8:57 AM	WATER	GRAB	2			X					
WTP EFFLUENT	10/6/99	12:57 PM	WATER	COMP	1				X				
WTP EFFLUENT	10/6/99	1:00 PM	WATER	COMP	2					X			
WTP EFFLUENT	10/6/99	1:03 PM	WATER	COMP	1						X		
WTP EFFLUENT	10/6/99	1:05 PM	WATER	COMP	1							X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: JERRY BORN	Date: 10/6/99	Time: 1540	Received by Lab: Marla F. Jackson	Date: 10/6/99	Time: 15:40
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 20°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N2924
Samp. Description: WTP Effluent

Collected: 10/12/99 10:10
Received: 10/12/99 16:25

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	630.	mg/L	EPA 160.1		10/15/99	101599W13	
Total suspended solids	<5.	mg/L	EPA 160.2		10/15/99	101599W12	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: October 22,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.
5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

3520

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 / 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	TSS/TDS							Comments
WTP EFFLUENT	10/12/99	10:10 AM	WATER	COMP	1	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	10/12/99	1625	Received by Lab: [signature]	10/12/99	16:25

Shipment Method: HAND DELIVERED Airbill Number:

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 4°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3386
Samp. Description: WTP Effluent - Grab
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 14

Collected: 10/20/99
Received: 10/20/99
Prepared: 11/01/99

Matrix: Water
QC Batch: 103199W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	11/01/99	
Methylene chloride	<2.0		1	11/01/99	
trans-1,2-Dichloroethene	<.50		1	11/01/99	
cis-1,2-Dichloroethene	<.50		1	11/01/99	
Trichloroethene	<.50		1	11/01/99	
4-Methyl-2-pentanone	<5.0		1	11/01/99	
Toluene	<.50		1	11/01/99	
2-Hexanone	<5.0		1	11/01/99	
Tetrachloroethene	<.50		1	11/01/99	
1,1,2,2-Tetrachloroethane	<.50		1	11/01/99	
Dibromofluoromethane (surrogate)	90.%	70-131	1	11/01/99	
1,2-Dichloroethane-d4 (surrogate)	92.%	81-120	1	11/01/99	
Toluene-d8 (surrogate)	96.%	83-117	1	11/01/99	
Bromofluorobenzene (surrogate)	78.%	78-119	1	11/01/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: November 5,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3387
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 10/20/99
Received: 10/20/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	10/25/99	10/26/99	102599W1	1	
Zinc	<.01	200.7	10/26/99	10/27/99	102699W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 6,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3387
Samp. Description: WTP Effluent - Composite

Collected: 10/20/99
Received: 10/20/99 15:25

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	560.				mg/L	EPA 160.1		10/27/99	102799W12	
Total suspended solids	<5.	U			mg/L	EPA 160.2		10/25/99	102599W11	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: October 30,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3612

Client: O'BRIEN & GERE TECHNICAL SERVICES

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL, JERRY BORN Phone # 2316, 6320109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	VOCs EPA METH 8260	Zn	TSS	TDS	Comments
WTP EFFLUENT	10/20/99	8:05 AM	WATER	GRAB	2	X				
WTP EFFLUENT	10/20/99	11:58 AM	WATER	COMP	1		X			
WTP EFFLUENT	10/20/99	11:58 AM	WATER	COMP	1			X		

Analysis/Method

Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date: 10/20/99	Time: 1525	Received by Lab: Marla F. Jackson Date: 10/20/99 Time: 15:25
Shipment Method: HAND DELIVERED			Airbill Number:

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 20C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3884
Samp. Description: WTP Effluent

Collected: 10/27/99
Received: 10/27/99 15:40

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	600.				mg/L	EPA 160.1		11/01/99	110199W12	
Total suspended solids	<5.	U			mg/L	EPA 160.2		10/29/99	102999W12	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: November 4,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3681

Client: O'BRIEN & GERE TECHNICAL SERVICES INC
Project: FORMER ACCURATE DIE
Sampled by: JERRY BORN
Client Contact: AL FAIRELL / JERRY BORN Phone # 2316 637 0109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	10/27/99	10:11 AM	WATER	COMP	1	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 10/27/99	Time: 1540	Received by Lab: Barbara Pauling	Date: 10/27/99	Time: 15:40
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)

Comments:

Cooler Temperature: 1°C

Original-Laboratory Copy-Client

ANNUAL GROUNDWATER SAMPLING & ANALYSES
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3307
Samp. Description: MW-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3307
Samp. Description: MW-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	101.%		1	72-123	
Fluorobenzene (surrogate	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3319
Samp. Description: MW-5
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	<10.	U	1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3319
Samp. Description: MW-5
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	78.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	109.%		1	72-123	
Fluorobenzene (surrogate)	96.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3321
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<2.	U	1		2.	
Bromodichloromethane	<2.	U	1		2.	
Bromoform	<20.	U	1		20.	
Bromomethane	<20.	U	1		20.	
Carbon tetrachloride	<2.	U	1		2.	
Chlorobenzene	<2.	U	1		2.	
Chloroethane	<2.	U	1		2.	
2-Chloroethylvinyl ether	<20.	U	1		20.	
Chloroform	<2.	U	1		2.	
Chloromethane	<20.	U	1		20.	
Dibromochloromethane	<2.	U	1		2.	
1,2-Dichlorobenzene	<10.	U	1		10.	
1,3-Dichlorobenzene	<10.	U	1		10.	
1,4-Dichlorobenzene	<10.	U	1		10.	
Dichlorodifluoromethane	<20.	U	1		20.	
1,1-Dichloroethane	<2.	U	1		2.	
1,2-Dichloroethane	<2.	U	1		2.	
1,1-Dichloroethylene	<2.	U	1		2.	
cis-1,2-Dichloroethylene	<2.	U	1		2.	
trans-1,2-Dichloroethylene	<2.	U	1		2.	
Dichloromethane	<2.	U	1		2.	
1,2-Dichloropropane	<2.	U	1		2.	
cis-1,3-Dichloropropylene	<2.	U	1		2.	
trans-1,3-Dichloropropylene	<2.	U	1		2.	
Ethylbenzene	<2.	U	1		2.	
1,1,2,2-Tetrachloroethane	<2.	U	1		2.	
Tetrachloroethylene	<2.	U	1		2.	
Toluene	<2.	U	1		2.	
1,1,1-Trichloroethane	<2.	U	1		2.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3321
Samp. Description: MW-6
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 2 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<2.	U	1		2.	
Trichloroethylene	72.		1		2.	
Trichlorofluoromethane	<2.	U	1		2.	
Vinyl Chloride	<2.	U	1		2.	
Xylenes (total)	<6.	U	1		6.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	116.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3311
Samp. Description: MW-7
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3311
Samp. Description: MW-7
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	106.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3309
Samp. Description: MW-8
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3309
Samp. Description: MW-8
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	101.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3310
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
% Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<5.	U	1		5.	
Bromodichloromethane	<5.	U	1		5.	
Bromoform	<50.	U	1		50.	
Bromomethane	<50.	U	1		50.	
Carbon tetrachloride	<5.	U	1		5.	
Chlorobenzene	<5.	U	1		5.	
Chloroethane	<5.	U	1		5.	
2-Chloroethylvinyl ether	<50.	U	1		50.	
Chloroform	<5.	U	1		5.	
Chloromethane	<50.	U	1		50.	
Dibromochloromethane	<5.	U	1		5.	
1,2-Dichlorobenzene	<25.	U	1		25.	
1,3-Dichlorobenzene	<25.	U	1		25.	
1,4-Dichlorobenzene	<25.	U	1		25.	
Dichlorodifluoromethane	<50.	U	1		50.	
1,1-Dichloroethane	<5.	U	1		5.	
1,2-Dichloroethane	<5.	U	1		5.	
1,1-Dichloroethylene	<5.	U	1		5.	
cis-1,2-Dichloroethylene	<5.	U	1		5.	
trans-1,2-Dichloroethylene	<5.	U	1		5.	
Dichloromethane	<5.	U	1		5.	
1,2-Dichloropropane	<5.	U	1		5.	
cis-1,3-Dichloropropylene	<5.	U	1		5.	
trans-1,3-Dichloropropylene	<5.	U	1		5.	
Ethylbenzene	<5.	U	1		5.	
1,1,2,2-Tetrachloroethane	<5.	U	1		5.	
Tetrachloroethylene	<5.	U	1		5.	
Toluene	<5.	U	1		5.	
1,1,1-Trichloroethane	<5.	U	1		5.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
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Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3310
Samp. Description: MW-9
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 5 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<5.	U	1		5.	
Trichloroethylene	46.		1		5.	
Trichlorofluoromethane	<5.	U	1		5.	
Vinyl Chloride	<5.	U	1		5.	
Xylenes (total)	<15.	U	1		15.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	102.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3323
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3323
Samp. Description: MW-10
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	700.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	112.%		1	72-123	
Fluorobenzene (surrogate)	98.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3318
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3318
Samp. Description: MW-11
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	900.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	110.%		1	72-123	
Fluorobenzene (surrogate)	96.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3312
Samp. Description: MW-12
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: [signature]
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3312
Samp. Description: MW-12
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	15.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3325
Samp. Description: MW-13
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<20.	U	1		20.	
Bromodichloromethane	<20.	U	1		20.	
Bromoform	<200.	U	1		200.	
Bromomethane	<200.	U	1		200.	
Carbon tetrachloride	<20.	U	1		20.	
Chlorobenzene	<20.	U	1		20.	
Chloroethane	<20.	U	1		20.	
2-Chloroethylvinyl ether	<200.	U	1		200.	
Chloroform	<20.	U	1		20.	
Chloromethane	<200.	U	1		200.	
Dibromochloromethane	<20.	U	1		20.	
1,2-Dichlorobenzene	<100.	U	1		100.	
1,3-Dichlorobenzene	<100.	U	1		100.	
1,4-Dichlorobenzene	<100.	U	1		100.	
Dichlorodifluoromethane	<200.	U	1		200.	
1,1-Dichloroethane	<20.	U	1		20.	
1,2-Dichloroethane	<20.	U	1		20.	
1,1-Dichloroethylene	<20.	U	1		20.	
cis-1,2-Dichloroethylene	<20.	U	1		20.	
trans-1,2-Dichloroethylene	<20.	U	1		20.	
Dichloromethane	<20.	U	1		20.	
1,2-Dichloropropane	<20.	U	1		20.	
cis-1,3-Dichloropropylene	<20.	U	1		20.	
trans-1,3-Dichloropropylene	<20.	U	1		20.	
Ethylbenzene	<20.	U	1		20.	
1,1,2,2-Tetrachloroethane	<20.	U	1		20.	
Tetrachloroethylene	<20.	U	1		20.	
Toluene	<20.	U	1		20.	
1,1,1-Trichloroethane	<20.	U	1		20.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3325
Samp. Description: MW-13
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<20.	U	1		20.	
Trichloroethylene	430.		1		20.	
Trichlorofluoromethane	<20.	U	1		20.	
Vinyl Chloride	<20.	U	1		20.	
Xylenes (total)	<60.	U	1		60.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	99.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3324
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	<10.	U	1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3324
Samp. Description: MW-14
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/20/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	260.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3306
Samp. Description: MW-15
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3306
Samp. Description: MW-15
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	13.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	115.%		1	72-123	
Fluorobenzene (surrogate)	96.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3305
Samp. Description: MW-16
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3305
Samp. Description: MW-16
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	15.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	101.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3313
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	<10.	U	1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3313
Samp. Description: MW-17
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	180.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3314
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<100.	U	1		100.	
Bromodichloromethane	<100.	U	1		100.	
Bromoform	<1000.	U	1		1000.	
Bromomethane	<1000.	U	1		1000.	
Carbon tetrachloride	<100.	U	1		100.	
Chlorobenzene	<100.	U	1		100.	
Chloroethane	<100.	U	1		100.	
2-Chloroethylvinyl ether	<1000.	U	1		1000.	
Chloroform	<100.	U	1		100.	
Chloromethane	<1000.	U	1		1000.	
Dibromochloromethane	<100.	U	1		100.	
1,2-Dichlorobenzene	<500.	U	1		500.	
1,3-Dichlorobenzene	<500.	U	1		500.	
1,4-Dichlorobenzene	<500.	U	1		500.	
Dichlorodifluoromethane	<1000.	U	1		1000.	
1,1-Dichloroethane	<100.	U	1		100.	
1,2-Dichloroethane	<100.	U	1		100.	
1,1-Dichloroethylene	<100.	U	1		100.	
cis-1,2-Dichloroethylene	<100.	U	1		100.	
trans-1,2-Dichloroethylene	<100.	U	1		100.	
Dichloromethane	<100.	U	1		100.	
1,2-Dichloropropane	<100.	U	1		100.	
cis-1,3-Dichloropropylene	<100.	U	1		100.	
trans-1,3-Dichloropropylene	<100.	U	1		100.	
Ethylbenzene	<100.	U	1		100.	
1,1,2,2-Tetrachloroethane	<100.	U	1		100.	
Tetrachloroethylene	<100.	U	1		100.	
Toluene	<100.	U	1		100.	
1,1,1-Trichloroethane	<100.	U	1		100.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3314
Samp. Description: MW-18
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<100.	U	1		100.	
Trichloroethylene	1800.		1		100.	
Trichlorofluoromethane	<100.	U	1		100.	
Vinyl Chloride	<100.	U	1		100.	
Xylenes (total)	<300.	U	1		300.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	112.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3316
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<20.	U	1		20.	
Bromodichloromethane	<20.	U	1		20.	
Bromoform	<200.	U	1		200.	
Bromomethane	<200.	U	1		200.	
Carbon tetrachloride	<20.	U	1		20.	
Chlorobenzene	<20.	U	1		20.	
Chloroethane	<20.	U	1		20.	
2-Chloroethylvinyl ether	<200.	U	1		200.	
Chloroform	<20.	U	1		20.	
Chloromethane	<200.	U	1		200.	
Dibromochloromethane	<20.	U	1		20.	
1,2-Dichlorobenzene	<100.	U	1		100.	
1,3-Dichlorobenzene	<100.	U	1		100.	
1,4-Dichlorobenzene	<100.	U	1		100.	
Dichlorodifluoromethane	<200.	U	1		200.	
1,1-Dichloroethane	<20.	U	1		20.	
1,2-Dichloroethane	<20.	U	1		20.	
1,1-Dichloroethylene	<20.	U	1		20.	
cis-1,2-Dichloroethylene	670.		1		20.	
trans-1,2-Dichloroethylene	<20.	U	1		20.	
Dichloromethane	<20.	U	1		20.	
1,2-Dichloropropane	<20.	U	1		20.	
cis-1,3-Dichloropropylene	<20.	U	1		20.	
trans-1,3-Dichloropropylene	<20.	U	1		20.	
Ethylbenzene	<20.	U	1		20.	
1,1,2,2-Tetrachloroethane	<20.	U	1		20.	
Tetrachloroethylene	<20.	U	1		20.	
Toluene	<20.	U	1		20.	
1,1,1-Trichloroethane	<20.	U	1		20.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3316
Samp. Description: MW-21
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 20 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<20.	U	1		20.	
Trichloroethylene	90.		1		20.	
Trichlorofluoromethane	<20.	U	1		20.	
Vinyl Chloride	<20.	U	1		20.	
Xylenes (total)	<60.	U	1		60.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	96.%		1	72-123	
Fluorobenzene (surrogate)	98.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3315
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	28.		1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3315
Samp. Description: MW-22
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	9.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	103.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3308
Samp. Description: MW-23
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3308
Samp. Description: MW-23
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 10/23/99

Matrix: Water
QC Batch: 102399W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	102.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3317
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<100.	U	1		100.	
Bromodichloromethane	<100.	U	1		100.	
Bromoform	<1000.	U	1		1000.	
Bromomethane	<1000.	U	1		1000.	
Carbon tetrachloride	<100.	U	1		100.	
Chlorobenzene	<100.	U	1		100.	
Chloroethane	<100.	U	1		100.	
2-Chloroethylvinyl ether	<1000.	U	1		1000.	
Chloroform	<100.	U	1		100.	
Chloromethane	<1000.	U	1		1000.	
Dibromochloromethane	<100.	U	1		100.	
1,2-Dichlorobenzene	<500.	U	1		500.	
1,3-Dichlorobenzene	<500.	U	1		500.	
1,4-Dichlorobenzene	<500.	U	1		500.	
Dichlorodifluoromethane	<1000.	U	1		1000.	
1,1-Dichloroethane	<100.	U	1		100.	
1,2-Dichloroethane	<100.	U	1		100.	
1,1-Dichloroethylene	<100.	U	1		100.	
cis-1,2-Dichloroethylene	3000.		1		100.	
trans-1,2-Dichloroethylene	<100.	U	1		100.	
Dichloromethane	<100.	U	1		100.	
1,2-Dichloropropane	<100.	U	1		100.	
cis-1,3-Dichloropropylene	<100.	U	1		100.	
trans-1,3-Dichloropropylene	<100.	U	1		100.	
Ethylbenzene	<100.	U	1		100.	
1,1,2,2-Tetrachloroethane	<100.	U	1		100.	
Tetrachloroethylene	<100.	U	1		100.	
Toluene	<100.	U	1		100.	
1,1,1-Trichloroethane	<100.	U	1		100.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 3,1999

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3317
Samp. Description: MW-24
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 100 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/01/99

Matrix: Water
QC Batch: 110199W1
%Solids:
Sample Size: 5 ml

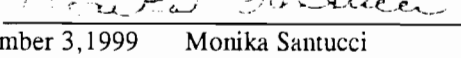
Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<100.	U	1		100.	
Trichloroethylene	4300.		1		100.	
Trichlorofluoromethane	<100.	U	1		100.	
Vinyl Chloride	<100.	U	1		100.	
Xylenes (total)	<300.	U	1		300.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	113.%		1	72-123	
Fluorobenzene (surrogate)	98.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: 
Date: November 3, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3320
Samp. Description: PZ-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<10.	U	1		10.	
Bromodichloromethane	<10.	U	1		10.	
Bromoform	<100.	U	1		100.	
Bromomethane	<100.	U	1		100.	
Carbon tetrachloride	<10.	U	1		10.	
Chlorobenzene	<10.	U	1		10.	
Chloroethane	<10.	U	1		10.	
2-Chloroethylvinyl ether	<100.	U	1		100.	
Chloroform	<10.	U	1		10.	
Chloromethane	<100.	U	1		100.	
Dibromochloromethane	<10.	U	1		10.	
1,2-Dichlorobenzene	<50.	U	1		50.	
1,3-Dichlorobenzene	<50.	U	1		50.	
1,4-Dichlorobenzene	<50.	U	1		50.	
Dichlorodifluoromethane	<100.	U	1		100.	
1,1-Dichloroethane	<10.	U	1		10.	
1,2-Dichloroethane	<10.	U	1		10.	
1,1-Dichloroethylene	<10.	U	1		10.	
cis-1,2-Dichloroethylene	<10.	U	1		10.	
trans-1,2-Dichloroethylene	<10.	U	1		10.	
Dichloromethane	<10.	U	1		10.	
1,2-Dichloropropane	<10.	U	1		10.	
cis-1,3-Dichloropropylene	<10.	U	1		10.	
trans-1,3-Dichloropropylene	<10.	U	1		10.	
Ethylbenzene	<10.	U	1		10.	
1,1,2,2-Tetrachloroethane	<10.	U	1		10.	
Tetrachloroethylene	<10.	U	1		10.	
Toluene	<10.	U	1		10.	
1,1,1-Trichloroethane	<10.	U	1		10.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3320
Samp. Description: PZ-1
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 10 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<10.	U	1		10.	
Trichloroethylene	410.		1		10.	
Trichlorofluoromethane	<10.	U	1		10.	
Vinyl Chloride	<10.	U	1		10.	
Xylenes (total)	<30.	U	1		30.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3322
Samp. Description: PZ-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3322
Samp. Description: PZ-2
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	18.		1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	100.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3326
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.	U	1		1.	
Bromodichloromethane	<1.	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.	U	1		1.	
Chlorobenzene	<1.	U	1		1.	
Chloroethane	<1.	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.	U	1		1.	
1,2-Dichloroethane	<1.	U	1		1.	
1,1-Dichloroethylene	<1.	U	1		1.	
cis-1,2-Dichloroethylene	<1.	U	1		1.	
trans-1,2-Dichloroethylene	<1.	U	1		1.	
Dichloromethane	<1.	U	1		1.	
1,2-Dichloropropane	<1.	U	1		1.	
cis-1,3-Dichloropropylene	<1.	U	1		1.	
trans-1,3-Dichloropropylene	<1.	U	1		1.	
Ethylbenzene	<1.	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.	U	1		1.	
Tetrachloroethylene	<1.	U	1		1.	
Toluene	<1.	U	1		1.	
1,1,1-Trichloroethane	<1.	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting
Proj. Desc: Fayetteville, New York

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N3326
Samp. Description: QC Trip Blank
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 10/19/99
Received: 10/20/99
Prepared:
Analyzed: 11/02/99

Matrix: Water
QC Batch: 110299W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.	U	1		1.	
Trichloroethylene	<1.	U	1		1.	
Trichlorofluoromethane	<1.	U	1		1.	
Vinyl Chloride	<1.	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	97.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 3,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3599

Client: ENGINEERS

Project: FORMER ACCURATE DIE CASTING

Sampled by: DAVID J. CARNEVALE

Client Contact: AL FARRELL Phone #

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOC (8021B)	Comments
MW-16	10/19/99	0745	WATER	GRAB	2	X	
MW-15	↑	0830	↓	↓	↓	X	
MW-2		0850				X	
MW-23		0930				X	
MW-8		0955				X	
MW-9		1025				X	
MW-7		1100				X	
MW-12		1125				X	
MW-17		1145				X	
MW-18		1210				X	
MW-22		1245				X	
MW-21	↓	1300	↓	↓	↓	X	

Relinquished by: David J. Carnevale	Date: 10/20/99	Time: 1015	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Lab: Barbara Pauling

Date: | Time:
Date: | Time:
Date: 10/20/99 | Time: 10:15

Shipment Method:

Airbill Number:

Turnaround Time Required:
Routine ✓
Rush (Specify)

Comments: 2 QCT Brec'd. - analyze only 1 per D. Carnevale BPP

Cooler Temperature: 4°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

Client: ENGINEERS

Project: FORMER ACCURATE DIE CASTING

Sampled by: DAVID J. CARNEVALE

Client Contact: AL FARRELL Phone #

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: VOC (8021B)	Comments
MW-24	10/19/99	1310	WATER	GRAB	2	X	
MW-11		1340				X	
MW-5		1405				X	
PZ-1		1430				X	
MW-6		1450				X	
PZ-2		1530				X	
MW-10	10/20/99	0820				X	
MW-14		0850				X	
MW-13		0915				X	
TRIP BLANK	10/18/99	—				X	

Relinquished by: David J Carnevale	Date: 10/20/99	Time: 1015	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Lab: Barbara Pawlus	Date: 10/20/99	Time: 10:15
Shipment Method:			Airbill Number:		

Turnaround Time Required:
Routine_____
Rush (Specify)_____

Comments:

Cooler Temperature:_____

Original-Laboratory Copy-Client

O'BRIEN & GERE
ENGINEERS, INC.

FILE COPY

15 1999

December 10, 1999

Mr. David Crosby, P.E.
Bureau of Construction Services - Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: Former Accurate Die Casting Site
Fayetteville, NY

File: 2488/23123 #2

Dear Mr. Crosby:

This letter presents the status of groundwater treatment plant operations for the former Accurate Die Casting site in Fayetteville, New York for November 1999. This report 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.

1. As of November 30,1999, a total of 30,572,200 gallons of groundwater has been treated since startup on February 5, 1996. Since October 29, 1999, 616,900 gallons of groundwater was treated; 511,120 gallons from recovery well RW-1, 102,900 gallons from recovery well RW-2, and 2,880 gallons from the sump outside the northeast corner of the building. No flow was recovered during the period from the groundwater collection trench constructed in the former VOC/PAH/PCB Soils Area.

2. O'Brien & Gere performed the sampling activities associated with the SPDES Fact Sheet (#734052). The analytical results associated with the SPDES Fact Sheet monitoring activities performed in November 1999 are summarized in Table 1. The laboratory analytical data sheets are provided as Attachment A.

If you have any questions regarding this report, please do not hesitate to call me.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Alfred R. Farrell, P.E.
Senior Project Engineer

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Attachments

O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • http:// www.obg.com
... and offices in major U.S. cities

cc: V. Nattanmai, P.E. - NYSDEC
A. English - NYSDEC
T. Male - NYSDEC
Central Field Unit: Project Attorney Accurate Die Site - NYSDEC
C. Branagh, P.E. - NYSDEC Region 7
Director, Bureau of Environmental Exposure Investigation - NYSDOH (2 copies)
H. Hamel – NYSDOH
M. Peters, Esq – LeBoeuf, Lamb, Greene & MacRae

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte (units)	Monitoring Requirements				Effluent 11/02/99	Effluent 11/03/99	Effluent 11/09/99	Effluent 11/10/99
	Discharge Limitation Daily Average	Discharge Limitation Daily Maximum	Minimum Measurement Frequency(1)	Sample Type				
Flow (GPD)	Monitor	150000	Continuous	Meter	19920	---	19470	---
pH (SU)	6.5 - 8.5		2/Week	Grab	7.91	---	7.92	---
Residue, non-filterable (mg/L)	Monitor	20	Weekly	3-hr comp.	---	5 U	---	5 U
Total dissolved solids (TDS) (mg/L)	Monitor	Monitor	Weekly	3-hr comp.	---	620	---	670
CBOD5 (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TKN (mg/L)	Monitor	Monitor	Quarterly	3-hr comp.	---	---	---	---
TOD (mg/L)	Monitor	15	Quarterly	Calculated	---	---	---	---
Dissolved Oxygen (mg/L)	Monitor	7 Min.	Quarterly	Grab	---	---	---	---
Aluminum, dissolved (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Antimony, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Chromium, total (mg/L)	Monitor	0.5	Quarterly	3-hr comp.	---	---	---	---
Cobalt, total (mg/L)	Monitor	0.01	Quarterly	3-hr comp.	---	---	---	---
Copper, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Iron, total (mg/L)	Monitor	0.3	Quarterly	3-hr comp.	---	---	---	---
Lead, total (mg/L)	Monitor	0.02	Quarterly	3-hr comp.	---	---	---	---
Mercury, total (mg/L)	Monitor	0.0008	2/Month	3-hr comp.	---	.0002 U	---	---
Nickel, total (mg/L)	Monitor	0.2	Quarterly	3-hr comp.	---	---	---	---
Silver, total (mg/L)	Monitor	0.1	Quarterly	3-hr comp.	---	---	---	---
Vanadium, total (mg/L)	Monitor	0.03	Quarterly	3-hr comp.	---	---	---	---
Zinc, total (mg/L)	Monitor	0.3	2/Month	3-hr comp.	---	.01	---	---
cis-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
Methylene chloride (ug/L)	Monitor	50	2/Month	Grab	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	Monitor	30	2/Month	Grab	---	.50 U	---	---
Tetrachloroethene (ug/L)	Monitor	20	2/Month	Grab	---	.50 U	---	---
Toluene (ug/L)	Monitor	20	2/Month	Grab	---	.50 U	---	---
Trichloroethene (ug/L)	Monitor	10	2/Month	Grab	---	.50 U	---	---
Acetone (ug/L)	Monitor	1000	2/Month	Grab	---	10 U	---	---
2-Hexanone (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	Monitor	1000	2/Month	Grab	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

O'BRIEN & GERE ENGINEERS, INC.

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

Analyte	Effluent 11/16/99	Effluent 11/17/99	Effluent 11/23/99	Effluent 11/30/99
Flow (GPD)	19054	---	18591	18874
pH (SU)	7.89	---	7.91	7.92
Residue, non-filterable (mg/L)	---	5 U	5 U	---
Total dissolved solids (TDS) (mg/L)	---	710	740	---
CBOD5 (mg/L)	---	---	---	---
TKN (mg/L)	---	---	---	---
TOD (mg/L)	---	---	---	---
Dissolved Oxygen (mg/L)	---	---	---	---
Aluminum, dissolved (mg/L)	---	---	---	---
Antimony, total (mg/L)	---	---	---	---
Chromium, total (mg/L)	---	---	---	---
Cobalt, total (mg/L)	---	---	---	---
Copper, total (mg/L)	---	---	---	---
Iron, total (mg/L)	---	---	---	---
Lead, total (mg/L)	---	---	---	---
Mercury, total (mg/L)	---	.0002 U	---	---
Nickel, total (mg/L)	---	---	---	---
Silver, total (mg/L)	---	---	---	---
Vanadium, total (mg/L)	---	---	---	---
Zinc, total (mg/L)	---	.04	---	---
cis-1,2-Dichloroethene (ug/L)	---	.50 U	---	---
trans-1,2-Dichloroethene (ug/L)	---	.50 U	---	---
Methylene chloride (ug/L)	---	2.0 U	---	---
1,1,2,2-Tetrachloroethane (ug/L)	---	.50 U	---	---
Tetrachloroethene (ug/L)	---	.50 U	---	---
Toluene (ug/L)	---	.50 U	---	---
Trichloroethene (ug/L)	---	.50 U	---	---
Acetone (ug/L)	---	10 U	---	---
2-Hexanone (ug/L)	---	5.0 U	---	---
4-Methyl-2-pentanone (MIBK) (ug/L)	---	5.0 U	---	---

NOTES: (1) Minimum monitoring requirements based on the SPDES permit modified March 13, 1997.
--- - Not analyzed, NA - Data not available
U - Not Detected, J - Estimated
TOD = 1.5 X CBOD5 + 4.5 X TKN

ATTACHMENT A

SPDES PERMIT COMPLIANCE MONITORING
LABORATORY ANALYTICAL DATA SHEETS

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4276
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 11/03/99
Received: 11/03/99
Prepared: 11/12/99

Matrix: Water
QC Batch: 111299W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	11/12/99	
Methylene chloride	<2.0		1	11/12/99	
trans-1,2-Dichloroethene	<.50		1	11/12/99	
cis-1,2-Dichloroethene	<.50		1	11/12/99	
Trichloroethene	<.50		1	11/12/99	
4-Methyl-2-pentanone	<5.0		1	11/12/99	
Toluene	<.50		1	11/12/99	
2-Hexanone	<5.0		1	11/12/99	
Tetrachloroethene	<.50		1	11/12/99	
1,1,2,2-Tetrachloroethane	<.50		1	11/12/99	
Dibromofluoromethane (surrogate)	93.%	70-131	1	11/12/99	
1,2-Dichloroethane-d4 (surrogate)	111.%	81-120	1	11/12/99	
Toluene-d8 (surrogate)	107.%	83-117	1	11/12/99	
Bromofluorobenzene (surrogate)	109.%	78-119	1	11/12/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: November 15,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4274
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 11/03/99
Received: 11/03/99
Prepared:
Analyzed: 11/16/99

Matrix: Water
QC Batch: 111699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<25.	U	1		25.	
Bromodichloromethane	<25.	U	1		25.	
Bromoform	<250.	U	1		250.	
Bromomethane	<250.	U	1		250.	
Carbon tetrachloride	<25.	U	1		25.	
Chlorobenzene	<25.	U	1		25.	
Chloroethane	<25.	U	1		25.	
2-Chloroethylvinyl ether	<250.	U	1		250.	
Chloroform	<25.	U	1		25.	
Chloromethane	<250.	U	1		250.	
Dibromochloromethane	<25.	U	1		25.	
1,2-Dichlorobenzene	<120.	U	1		125.	
1,3-Dichlorobenzene	<120.	U	1		125.	
1,4-Dichlorobenzene	<120.	U	1		125.	
Dichlorodifluoromethane	<250.	U	1		250.	
1,1-Dichloroethane	<25.	U	1		25.	
1,2-Dichloroethane	<25.	U	1		25.	
1,1-Dichloroethylene	<25.	U	1		25.	
cis-1,2-Dichloroethylene	<25.	U	1		25.	
trans-1,2-Dichloroethylene	<25.	U	1		25.	
Dichloromethane	<25.	U	1		25.	
1,2-Dichloropropane	<25.	U	1		25.	
cis-1,3-Dichloropropylene	<25.	U	1		25.	
trans-1,3-Dichloropropylene	<25.	U	1		25.	
Ethylbenzene	<25.	U	1		25.	
1,1,2,2-Tetrachloroethane	<25.	U	1		25.	
Tetrachloroethylene	<25.	U	1		25.	
Toluene	<25.	U	1		25.	
1,1,1-Trichloroethane	<25.	U	1		25.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 17,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4274
Samp. Description: WTP Influent
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 25 Instrument: 9001

Collected: 11/03/99
Received: 11/03/99
Prepared:
Analyzed: 11/16/99

Matrix: Water
QC Batch: 111699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<25.	U	1		25.	
Trichloroethylene	520.		1		25.	
Trichlorofluoromethane	<25.	U	1		25.	
Vinyl Chloride	<25.	U	1		25.	
Xylenes (total)	<75.	U	1		75.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	98.%		1	72-123	
Fluorobenzene (surrogate)	100.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 17,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4275
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 11/03/99
Received: 11/03/99
Prepared:
Analyzed: 11/16/99

Matrix: Water
QC Batch: 111699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
Benzene	<1.0	U	1		1.	
Bromodichloromethane	<1.0	U	1		1.	
Bromoform	<10.	U	1		10.	
Bromomethane	<10.	U	1		10.	
Carbon tetrachloride	<1.0	U	1		1.	
Chlorobenzene	<1.0	U	1		1.	
Chloroethane	<1.0	U	1		1.	
2-Chloroethylvinyl ether	<10.	U	1		10.	
Chloroform	<1.0	U	1		1.	
Chloromethane	<10.	U	1		10.	
Dibromochloromethane	<1.0	U	1		1.	
1,2-Dichlorobenzene	<5.	U	1		5.	
1,3-Dichlorobenzene	<5.	U	1		5.	
1,4-Dichlorobenzene	<5.	U	1		5.	
Dichlorodifluoromethane	<10.	U	1		10.	
1,1-Dichloroethane	<1.0	U	1		1.	
1,2-Dichloroethane	<1.0	U	1		1.	
1,1-Dichloroethylene	<1.0	U	1		1.	
cis-1,2-Dichloroethylene	<1.0	U	1		1.	
trans-1,2-Dichloroethylene	<1.0	U	1		1.	
Dichloromethane	<1.0	U	1		1.	
1,2-Dichloropropane	<1.0	U	1		1.	
cis-1,3-Dichloropropylene	<1.0	U	1		1.	
trans-1,3-Dichloropropylene	<1.0	U	1		1.	
Ethylbenzene	<1.0	U	1		1.	
1,1,2,2-Tetrachloroethane	<1.0	U	1		1.	
Tetrachloroethylene	<1.0	U	1		1.	
Toluene	<1.0	U	1		1.	
1,1,1-Trichloroethane	<1.0	U	1		1.	

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 17,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8021

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4275
Samp. Description: WTP Between GACs
Primary column: Y
Units: ug/L
Column: DB-VRX 75m x .45mm ID
Dilution: 1 Instrument: 9001

Collected: 11/03/99
Received: 11/03/99
Prepared:
Analyzed: 11/16/99

Matrix: Water
QC Batch: 111699W1
%Solids:
Sample Size: 5 ml

Number of analytes: 34

Parameter	Result	Qual	Col	MDL	RL	Notes
1,1,2-Trichloroethane	<1.0	U	1		1.	
Trichloroethylene	<1.0	U	1		1.	
Trichlorofluoromethane	<1.0	U	1		1.	
Vinyl Chloride	<1.0	U	1		1.	
Xylenes (total)	<3.	U	1		3.	

Surrogate	Result	Qual	Col	Limits	Notes
2-Chloropropane (surrogate)	102.%		1	72-123	
Fluorobenzene (surrogate)	99.%		1	81-114	

Notes:

- Outside control limits. U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: Monika Santucci
Date: November 17,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4277
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 11/03/99
Received: 11/03/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	11/11/99	11/11/99	111199W1	1	
Zinc	.01	200.7	11/15/99	11/16/99	111599W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 18,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Monthly Effluent & Influent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4277
Samp. Description: WTP Effluent - Composite

Collected: 11/03/99
Received: 11/03/99 15:25

Matrix: Water

Parameter	Result	Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	620.				mg/L	EPA 160.1		11/10/99	111099W13	
Total suspended solids	<5.	U			mg/L	EPA 160.2		11/10/99	111099W14	

Notes:

U-Undetected at reported level. J-reported value is estimated.

Authorized: Monika Santucci
Date: November 17,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057
(315) 437-0200

Chain of Custody

3772

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: FORMER ACCURATE DIE

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 6370109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers
WTP INFLUENT	11/3/99	7:02 AM	WATER	GRAB	2
WTP BETWEEN GAC's	11/3/99	7:04 AM	WATER	GRAB	2
WTP EFFLUENT	11/3/99	7:07 AM	WATER	GRAB	2
WTP EFFLUENT	11/3/99	10:10 AM	WATER	COMP	1
WTP EFFLUENT	11/3/99	10:11 AM	WATER	COMP	1

Analysis/Method

Sample Location	VOC's EPA METH 8021	VOCs EPA METH 8021	VOC's EPA METH 8260	2 NTH'g TSS/TDS	Comments
WTP INFLUENT	X				
WTP BETWEEN GAC's		X			
WTP EFFLUENT			X		
WTP EFFLUENT				X	
WTP EFFLUENT				X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry Born	Date: 11/3/99	Time: 1525	Received by Lab: Barbara Pawling	Date: 11/3/99	Time: 15:2
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:
Routine X
Rush (Specify)_____

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Clien

O'Brien & Gere Laboratories, Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N4911
Samp. Description: WTP Effluent

Collected: 11/10/99
Received: 11/10/99 15:25

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	670.	mg/L	EPA 160.1		11/10/99	111099W13	
Total suspended solids	<5.	mg/L	EPA 160.2		11/16/99	111699W14	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: November 29,1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

5000 Brittonfield Parkway
East Syracuse, New York 13057 (3861)
(315) 437-0200

Chain of Custody

Client: O'BRIEN & GERE TECHNICAL SERVICES INC

Project: ACCURATE DIE (FORMER)

Sampled by: JERRY BORN

Client Contact: AL FARRELL / JERRY BORN Phone # 2316 6320109

Sample Description

Sample Location	Date Collected	Time Collected	Sample Matrix	Comp. or Grab	No. of Containers	Analysis/Method: TSS/TDS	Comments
WTP EFFLUENT	11/10/99	10:20 AM	WATER	COMP	1		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: Jerry R. Born	Date: 11/10/99	Time: 1525	Received by Lab: Mark F. Jackson	Date: 11/10/99	Time: 15:25
Shipment Method: HAND DELIVERED			Airbill Number:		

Turnaround Time Required:

Routine X

Rush (Specify)_____

Comments:

Cooler Temperature: 2°C

Original-Laboratory Copy-Client

O'Brien & Gere Laboratories, Inc.

Analytical Results Trace Metals

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N5331
Samp. Description: WTP Effluent - Composite
Units: mg/L

Collected: 11/17/99
Received: 11/17/99

Matrix: Water
%Solids:
Number of analytes: 2

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut.	Note
Mercury	<.0002	245.1	11/19/99	11/21/99	111999W1	1	
Zinc	.04	200.7	11/23/99	11/29/99	112399W1	1	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 6,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N5331
Samp. Description: WTP Effluent - Composite

Collected: 11/17/99
Received: 11/17/99 15:55

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	710.	mg/L	EPA 160.1		11/22/99	112299W11	
Total suspended solids	<5.	mg/L	EPA 160.2		11/22/99	112299W13	

Notes:

J-Estimated value

Authorized: Monika Santucci

Date: December 6,1999 Monika Santucci

O'Brien & Gere Laboratories,Inc.

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Weekly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N5597
Samp. Description: WTP Effluent

Collected: 11/23/99
Received: 11/23/99 15:25

Matrix: Water

Parameter	Result	Units	Method	Prepared	Analyzed	QC Batch	Note
Total dissolved solids	740.	mg/L	EPA 160.1		11/29/99	112999W12	
Total suspended solids	<5.	mg/L	EPA 160.2		11/29/99	112999W11	

Notes:

J-Estimated value

Authorized: Monika Santucci
Date: December 6,1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories,Inc.

Analytical Results Method: 8260

Client: O'Brien & Gere Engineers, Inc.
Project: Accurate Die Casting - Fayetteville, NY
Proj. Desc: Bi-Monthly Effluent Sampling

Job No.: 3435.021.517
Certification NY No.: 10155

Sample: N5330
Samp. Description: WTP Effluent - Grab
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 14

Collected: 11/17/99
Received: 11/17/99
Prepared: 11/23/99

Matrix: Water
QC Batch: 112399W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Acetone	<10.		1	11/23/99	
Methylene chloride	<2.0		1	11/23/99	
trans-1,2-Dichloroethene	<.50		1	11/23/99	
cis-1,2-Dichloroethene	<.50		1	11/23/99	
Trichloroethene	<.50		1	11/23/99	
4-Methyl-2-pentanone	<5.0		1	11/23/99	
Toluene	<.50		1	11/23/99	
2-Hexanone	<5.0		1	11/23/99	
Tetrachloroethene	<.50		1	11/23/99	
1,1,2,2-Tetrachloroethane	<.50		1	11/23/99	
Dibromofluoromethane (surrogate)	88.%	70-131	1	11/23/99	
1,2-Dichloroethane-d4 (surrogate)	95.%	81-120	1	11/23/99	
Toluene-d8 (surrogate)	101.%	83-117	1	11/23/99	
Bromofluorobenzene (surrogate)	109.%	78-119	1	11/23/99	

Notes:

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: November 24,1999 Monika Santucci

CHECKS MAR06								
Ahmed, S.	Lauren "B"		Follett, K.	Michele	2	Momberger G	Marcia "E"	
Albert, Michele	Michele		Franklin B	Kim "C"		Moore, V.	Lisa "A"	
Alden, Larry	Bennett "D"		Freedman, C.	Kathy "Ts"		Moras, J	Bennett "D"	
Anastahas, T.	Kathy "Ts"		Gibbons, T	Lauren "B"		Moss M	Marcia "E"	2
Artino Cecelia	Kathy "TS"		Gibson, V	Michele		Murry-Bonsteel, N.	Marcia "E"	
Aversa, Jack	Lauren "B"		Grathwol, J	Lauren "B"		Mustico, R	Lauren "B"	
Barrie Mary	Kathy "TS"		Greco, J.	Lauren "B"		Nattanmai, V	Bennett "D"	
Bayer, Wayne	Kathy "Ts"		Gupta K	Valerie "A"		Ng, C *	Lisa "A"	
Becker, Kiera	Kim "C"		Gupta, S	Michele		Norfleet, A	Michele	
Beilby Ian	Bennett "D"		Hackett, R.	Lisa "A"		Norvik, D	Michele	
Belmore, Ed	Bennett "D"		Haggerty, E	Karen		Obrecht, E	Kathy "Ts"	
Bennett, Bill	Kim "C"		Hale, K	Kathy "Ts"		Obrecht, J	Kathy "Ts"	
Bennett, Ted	Michele		Hampston, E	Bennett "D"		Omorogbe, A	Kim "C"	
Bishop, H.	Lisa "A"		Harrington, D	Lauren "B"		Ottaway, W	Kim "C"	
Bobersky, Guy	Lisa "A"		Harrington, J	Kathy "Ts"		Peck, J	Lauren "B"	2
Bolesky, Sue	Michele		Harris, G	Marcia"E"		Pelton, J.	Bennett "D"	
Brand, Martin	Bennett "D"		Hausamann, E	Marcia "E"		Perez Mal J	Lauren "B"	
Brausieck, J.	Kathy "Ts"		Heigel, S	Kathy "Ts"	2	Pokrzywka De	Kathy "Ts"	
Brown, B.	Kim "C"	2	Heitzman, G	Bennett "D"		Ports, W	Karen	
Burger, Ralph	Michele		Helmset, J	Kim "C"		Priore, S	Kim "C"	
Burke, G	Lisa "A"		Herman, D.	Kim "C"		Putnam, B	Kathy "Ts"	
Califano, E	Kathy "Ts"		Hesler, D	Lauren "B"		Putnam, N.	Lisa "A"	
Campbell, B.	Bennett "D"		Hoffman, C	Bennett "D"		Quinn, A	Michele	
Candiloro, J	Kim "C"		Hoffman, T	Michele		Quinn, J	Lauren "B"	
Carpenter, Ka	Kathy "Ts"	2	Honan, J	Michele		Quinn, K	Karen	
Carpenter, Ke	Kathy "Ts"		Hough R	Bennett "D"		Reichinger S	Kathy "Ts"	
Cerniglia L	Michele		Hubicki M	Kim "C"		Reinhart, K	Kim "C"	
Chieco, A	Michele		Humphrey, P.	Michele	2	Rider, G	Bennett "D"	2
Chiusano, D	Marcia "E"		Hunter, L.	Lisa "A"		Rizzo, L	Michele	
Cook, Joshua	Kim "C"		Jankauskas, B.	Lisa "A"		Rutland, R	Kathy "Ts"	
Corcoran, R	Kathy "Ts"		Jarratt James	Kathy "Ts"		Ryan, M	Kim "C"	
Costopoulos, C	Michele		Jenks, M.	Marcia "E"		Sarnacki M	Michele	
Couser, T	Michele		Johnson, M	Kathy "Ts"		Sarnowicz, K	Lauren "B"	
Cozzy, R	Lauren "B"		Jones, J.	Lisa "A"		Scharf, S	Lisa "A"	
Crosby, D	Kim "C"		Karwiel, A	Kim "C"		Schick, R	Kim "C"	
Cross, G	Kim "C"		Karwiel, S	Michele		Seaman, M.	Lisa "A"	
Cruden, M.	Marcia "E"		Keating, R	Lauren "B"		Shaw, W	Karen	
Curran, C.	Lisa "A"		Kennedy, L	Michele		Smith, P. D	Lauren "B"	
Daigle, W.	Karen		Kenney, K	Michele		Smith, T	Lauren "B"	2
Davidson, B.	Lauren "B"		Knizek, B	Marcia "E"		Spain, T	Michele	2
DeCandia, R.	Lisa "A"		Komoroske, M	Bennett "D"		Spath, M	Michele	
DeMarco, G.	Michele		Kyer, K	Kathy "Ts"		Spellman, J.	Kim "C"	
DeNyse, K.	Kim "C"		Lampman, L	Lisa "A"		Strang, J	Lisa "A"	
Desnoyers, D.	Karen		Larson, T	Lauren "B"		Swartout, J	Lisa "A"	2
Dewes, S.	Lauren "B"		Lasdin, S	Bennett "D"		Sylvester, A	Marcia "E"	
Deyette, S.	Kim "C"		Lebarron, T.	Kathy "Ts"		Tambe Jacob	Kathy "Ts"	
Diaz, T.	Lisa "A"		Lee, R.	Lauren "B"		Trad, J	Marcia "E"	
Dieter, G.	Valerie "A"	2	Leece, C.	Kathy "Ts"		Tromp, D	Karen	
Diligent, K.	Michele		Lewandowski, K	Kathy "Ts"		Vasudevan, C	Lisa "A"	
Dolata, L.	Kim "C"		Lewis Lisa	Michele		Victor, J	Kathy "Ts"	
Drumm, J.	Lauren "B"		Linder-Cantwell, C	Michele		Walter, A.	Lisa "A"	
Dudek, Heidi	Valerie "A"		Lister, J	Lisa "A"		Weigel, D	Michele	
Dunham, M.	Bennett "D"		Livingston, D	Kathy "Ts"		Welling, W	Bennett "D"	
Durnin, J	Lauren "B"		Long, Payson	Bennett "D"		Wertz W	Marcia "E"	2
Dyber, J	Valerie "A"		Ludlam, J	Bennett "D"		White, J	Bennett "D"	
Eastman, K	Kim "C"	2	Lukowski, E.	Kim "C"		Whitcher, R.	Michele	
Eaton, Dan	Lisa "A"		MacCabe M	Lauren "B"		Whitfield, C	Lisa "A"	
Ebong A	Kathy "Ts"		MacDonald, L	Lauren "B"		Wither, S	Kathy "Ts"	
Edwards, R	Lauren "B"		MacNeal, D	Kim "C"		Wolosen B	Kathy "Ts"	2
Edwards, Sue	Lauren "B"	2	Magee, C	Kathy "Ts"	2	Wolosen, T.	Michele	
English A	Kathy "Ts"		Maiurano, K	Kim "C"		Woodward, F	Lisa "A"	
Ennist, L	Michele		Maloney K	Lisa "A"		Woodward, V	Bennett "D"	
Ervolina, S	Karen		Mason, M	Marcia "E"		Yavonditte, J	Lisa "A"	
Evans, D	Michele		Mateunas, M	Bennett "D"		Zalewski, J	Kathy "Ts"	
Farrar, D	Kathy "Ts"		McCarthy, P.	Michele		Zeppetelli, L	Michele	
Farrar, K	Karen	2	McCullough, J	Bennett "D"		Zinoman, L	Michele	
Fatato, J.	Kathy "Ts"		Miller, J.	Kim "C"		Zobre, D	Michele	
Festa, T.	Marcia "E"		Mizerak, W	Kim "C"	2	Zuk, E	Kathy "Ts"	
Filkins, R	Lauren "B"		Moloughney, D	Kathy "Ts"				
Finlayson, D	Michele	2	Moloughney, J	Kim "C"				