Metalico Aluminum Recovery, Inc.
6223 Thompson Road • Syracuse, NY 13206
P.O. Box 88 • East Syracuse, NY 13057
(315) 463-9500 • Fax (315) 463-9290
Facility #7106946

August 28, 2020

Eric Hausamann, P.E., Project Manager
New York State Department of Environmental Conservation
Remedial Section B, Remedial Bureau E, 12th Floor
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7017

Re: Former Roth Bros. Smelting Corp. Site
Corrective Action Management Unit (CAMU)
6223 Thompson Road, DeWitt, New York
Consent Order C7-0001-94-10

Dear Mr. Hausamann:

Enclosed please find one copy of the Corrective Action Management Unit (CAMU) Groundwater Performance Monitoring Report for the June 2020 annual monitoring event. The report has been copied electronically as requested.

Barton & Loguidice, D.P.C. (B&L) prepared the report. The B&L technical contact is Jeff Reed and you may contact Mr. Reed directly if you have any questions regarding the report or any of the attached data.

Sincerely,

METALICO ALUMINUM RECOVERY, INC.

Ginny Hopkins
EH&S Manager

MPS/GH/akg
Enclosure
ec: Harry D. Warner, P.E. NYSDEC Region 7 (w/enclosure)
Margaret Sheen, Esq. NYSDEC Region 7(w/enclosure)

Groundwater Performance Monitoring Report

Roth Bros. Smelting Corp.
Corrective Action Management Unit (CAMU)

East Syracuse, Onondaga County, New York

Prepared for

Metalico Aluminum Recovery, Inc.

6223 Thompson Road
P.O. Box 88
East Syracuse, New York 13057

June 2020 Sampling

Barton&Loguidice

Roth Bros. Smelting Corp.
Corrective Action Management Unit (CAMU)
East Syracuse, Onondaga County, New York

Groundwater Performance Monitoring Report

June 2020 Sampling

Prepared for

Metalico Aluminum Recovery, Inc.
6223 Thompson Road
P.O. Box 88
East Syracuse, New York 13057

Prepared by

Barton & Loguidice, D.P.C.
443 Electronics Parkway
Liverpool, New York 13088

TABLE OF CONTENTS

1.0 INTRODUCTION

This report presents the results of the June 2020 groundwater monitoring performed at the Corrective Action Management Unit (CAMU) located at the former Wabash Aluminum Alloys, LLC (Wabash) facility located at 6223 Thompson Road, East Syracuse, Onondaga County, New York (Site). The Plant #2 portion of the site is owned by Metalico Syracuse Realty, Inc. (MSR), and Thompson Corners, LLC owns the Plant #1 portion of the Site.

Figure 1 shows the location of the Plant #1 and Plant #2 properties. The asphalt-paved CAMU area is located north of Plant #2. The monitoring locations associated with the CAMU groundwater performance monitoring, are included on Figure 1.

Metalico Aluminum Recovery, Inc. (MARI) currently operates a scrap metal recycling facility and formerly operated a secondary aluminum smelting operation at the MSR portion of the site. MARI discontinued the aluminum smelting operation in October 2015. By agreement with Wabash, MARI assumed "Wabash's obligations to conduct ongoing environmental monitoring and testing at the Site" under a Consent Order with the New York State Department of Environmental Conservation (NYSDEC) that was entered into by Roth Bros. Smelting Corp. (Index # C7-0001-94-10), the owner of the Site at the time the CAMU was constructed. To satisfy this contractual obligation, MARI retained Barton & Loguidice, D.P.C., to prepare this report.

This report has been prepared in accordance with the site Operations and Maintenance Plan (Malcolm Pirnie, 1997) and the subsequent Sampling & Analysis Plan revisions [Appendix D to the Operations and Maintenance Plan] as a result of letter correspondence with NYSDEC in 2002, and the approval letter from NYSDEC in April 2011.

Groundwater sampling was performed on a quarterly basis prior to June 2005 after which semi-annual monitoring was performed through 2010. Beginning with the June 2011 monitoring event, sampling is now performed on an annual basis in June of each year. This report addresses the June 2020 annual monitoring event.

Barton & Loguidice, D.P.C. (B&L) collected samples from the eight (8) monitoring well locations that comprise the CAMU active monitoring network on June 17, 2020. All samples were submitted to ALS Environmental (ALS) in Rochester, New York for analysis.

2.0 CAMU GROUNDWATER PERFORMANCE MONITORING

2.1 Monitoring Well Inspection

The following monitoring wells are sampled as part of the CAMU Groundwater Monitoring Performance Program (see Figure 1):

B291	B281	B290	B401
B402R	B403	B404	MW-8R

Over the course of time, several CAMU monitoring wells have been inadvertently damaged, destroyed, or needed maintenance, including:

- Monitoring well B280, formerly located north of the CAMU, was destroyed in September 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280.
- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Monitoring well B402R was installed in November 2005 and sampling began with the December 2005 sampling event. The destroyed well (B402) was properly decommissioned using a rotary drilling rig on April 24, 2007.
- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of scrap yard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program. The wellhead for monitoring well MW-8R was replaced on April 24, 2007 due to deterioration as the flush mounted well was set in a high traffic working area.
- On April 24, 2007, the area surrounding well B291 was cleared of vegetation, and the existing damaged flush-mounted well cover was removed and replaced with a stick-up-type protective casing installed in a concrete base. The wellhead was vertically surveyed relative to well B402R, with the new reference elevation being calculated at 410.86. A new, lockable well plug was installed in the well opening.
- In an effort to avoid further well damage or loss prior to the December 2008 sampling event, all of the facility monitoring wells were painted, labeled and affixed with pole extensions and flagging. The wells were also fitted with new keyed alike locks. It was also noted that all the wells had old deteriorating polyethylene tubing dedicated to each well, which is not a standard field sampling practice. All of the old tubing was removed from the wells and disposed of. New tubing for each well is now utilized during each round of sampling and then removed and disposed of properly when sampling is completed.

- In late 2012, the drainage swale piping enclosure along the east side of the CAMU was extended. The extension of this enclosure eliminated access to the open surface water and sediment monitoring locations.

2.2 Groundwater Monitoring Work

This section describes the field and laboratory procedures that were followed during this monitoring event. Table 1 provides a summary of the sampling frequency and the analytical parameters for each monitoring well for the CAMU groundwater monitoring program that began in 1998.

(a) Groundwater Contour Map

Prior to the sampling of the groundwater monitoring wells, the static water level of each monitoring well was measured. This work was performed using an electronic water level sensor capable of measuring to an accuracy of +/- 0.01 foot. The water level probe was decontaminated between wells by washing in an Alconox/water solution and rinsing with distilled water.

Figure 1 presents a groundwater contour map that reflects the water level data, which is set forth in Table 2. Table 2 also includes historical water level data prior groundwater sampling events.

The contour map indicates that the general groundwater flow direction at the Site is to the northeast toward the South Branch of Ley Creek. This finding is consistent with historical groundwater contour data.

(b) Groundwater Sampling & Analysis

Each of the monitoring wells was purged prior to sampling. Water surface elevations and field parameters (pH and Specific Conductance) were measured immediately prior to sample collection.

Purging of monitoring wells was performed with disposable bailers until a minimum of three (3) well volumes were removed or until the well went dry. After the monitoring wells were allowed to recharge overnight, groundwater samples were collected using a low-flow peristaltic pump with non-dedicated tubing at each location.

Collected samples were placed into clean coolers and kept on ice at 4°C until delivery to the laboratory for analysis.

Appendix A includes the field sampling data sheets and chain of custody records associated with this round of sampling.

(c) Monitoring Results

Appendix B contains the analytical laboratory reports prepared by ALS Environmental (New York NELAC Laboratory I.D. # 10145). Table 3 provides an historical summary of the analytical groundwater data for this project, including the results of the June 2020 groundwater monitoring. Data are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:

Parameter	Class GA Standard
pH	6.5 – 8.5 Std. Units
Lead	0.025 mg/L
Arsenic	0.025 mg/L
Aroclor 1016	0.09 µg/L*
Aroclor 1221	0.09 µg/L*
Aroclor 1232	0.09 µg/L*
Aroclor 1242	0.09 µg/L*
Aroclor 1248	0.09 µg/L*
Aroclor 1254	0.09 µg/L*
Aroclor 1260	0.09 µg/L*
Aroclor 1262	0.09 µg/L*
Aroclor 1268	0.09 µg/L*
Notes: *Limit applies to sum of all Aroclors	

The results of the June 2020 sampling event indicate that the groundwater quality conditions at the CAMU have remained consistent since the last monitoring event and appear to generally correspond with historical groundwater quality data. Monitoring location MW-8R continues to show signs that the well integrity is compromised such that the well should be decommissioned and removed from the CAMU monitoring program. The following sections summarize the analytical data collected during this sampling event:

pH – The Class GA standard for pH was not exceeded for any monitoring location.

PCBs – During the June 2020 monitoring event the NYSDEC Class GA groundwater standard for PCBs (0.09 µg/L) was exceeded at MW-8R (4.4 µg/L). Monitoring location MW-8R is a flush mounted surface well which recharges slowly and is located in a high traffic working area of the facility up-gradient of the CAMU. The well is located directly adjacent to a car dismantling area, a

former used engine block storage area, and turnings storage area, and is also near a former facility transformer location. The well seal has been reported as compromised in previous monitoring reports, and the integrity of the well screen has also been reported as a concern based on the inflow of gravel and debris observed in the purge water. MW-8R is also located up-gradient from the CAMU and is not needed as a CAMU monitoring well as B281 is also located up-gradient from the CAMU. Given the concerns with the integrity of MW-8R and its up-gradient location, we recommend that this well be properly pressure grouted, decommissioned and removed from the CAMU monitoring program. During the 2019 sampling event it was noted that a ribbon drain, between MW-8R and the metal turnings storage bays, that leads to an underground collection tank appeared compromised. MARI planned to reconstruct this ribbon drain to prevent any potential infiltration of fluids from the storage bays. This work was originally scheduled for the Fall of 2019, but has been rescheduled for the Fall of 2020.

No other PCB detections were reported within the remaining monitoring locations for the June 2020 monitoring event.

Specific Conductivity – Monitoring well location MW-8R exhibits elevated specific conductivity results when comparted to other monitoring locations, but the 2020 value continues to demonstrate a lower specific conductivity concentration when compared to historical data, as seen for the past three sampling events. No Class GA standard for specific conductivity is currently established. Historically, salts used in various processes at the plant were stockpiled in a storage bay immediately adjacent to flush mounted MW-8R monitoring well. It is suspected that surface contamination likely infiltrated the flush mounted well in the high traffic area resulting in elevated conductivity readings. Gravel and sediment in the bottom of the well suggest that its integrity has been compromised. As discussed above, we recommend that MW-8R be properly decommissioned and removed from the CAMU monitoring program.

Total & Dissolved Lead – During the June 2020 monitoring event, no monitoring locations exceeded the Class GA standards of 0.025 mg/L for total lead or 0.025 mg/L for dissolved lead. Total and dissolved lead have previously been detected within monitoring locations B290, B402R, and MW-8R as indicated in the historical data included in Table 3.

Total & Dissolved Arsenic – During the June 2020 monitoring event, no monitoring locations exceeded the Class GA standard of 0.025 mg/L for total arsenic. Monitoring location MW-8R demonstrated total arsenic (0.024 mg/L) and dissolved arsenic (0.013 mg/L) at concentrations below the groundwater

standard. Total and dissolved arsenic have been detected at concentrations slightly above the groundwater standard within MW-8R during recent monitoring events. Arsenic was not detected within any of the remaining monitoring wells during the 2020 sampling events.

FIGURE 1
Groundwater Contour Map

JUNE 2020 GROUNDWATER CONTOUR MAP

METALICO ALUMINUM RECOVERY, INC.
FACILITY NO. 7102372

ONONDAGA COUNTY, NEW YORK
EAST SYRACUSE

Barton & Loguidice

Date	JULY 2020
Scale	1" = 125'
Figure Number	1
Project Number	1206.002.007

N

B-281 (416.90)
MW-8R (411.20)
B-401 (404.99)
B-291 (402.39)
B-404 (404.50)
B-402R (405.84)
B-403 (407.47)
B-290 (409.37)

416 415 414 413 412 411 410 409 408 407 406 405 404 403

CONSOLIDATED RAIL CORPORATION

NIAGARA MOHAWK POWER CORPORATION

JOHN & M. SUSAN SCHNEID
BOOK 3176 OF DEEDS, PAGE 336

MIDLER PARK DRIVE

G & R PROPERTIES, LLC
BOOK 4377 OF DEEDS, PAGE 124

ONONDAGA SUBDIVISION CO., INC.
BOOK 1869 OF DEEDS, PAGE 525X

MAIN BUILDING (PLANT NO. 2)
EXISTING BUILDING
AREA = 109,209 Sq. Ft.

SCRAP METAL STORAGE

CONCRETE

CAMU AREA

PARCEL NO. 2
METALICO SYRACUSE REALTY, Inc.
AREA = 22.405± ACRES

PROPANE STORAGE BUILDING

PLANT NO. 1
EXISTING BUILDING

350'± PROPOSED LANDSCAPE EASEMENT

WRE PROPERTIES, LLC
BOOK 4331 OF DEEDS, PAGE 207

CNY SANDTRAP, LLC
BOOK 4838 OF DEEDS, PAGE 204

RUPP RENTAL & SALES CORP.
BOOK 2724 OF DEEDS, PAGE 57

PARCEL NO. 3
WABASH ALUMINUM ALLOYS
AREA = 0.605± ACRE

ROTH BROTHERS

LEGEND:

- PROPERTY LINE
- 404 GROUNDWATER CONTOUR
- PAVED CAMU AREA
- GROUNDWATER MONITORING WELL
- SURFACE WATER/SEDIMENT MONITORING LOCATION

125' 0 125'
1"=125'

Plotted: Jul 23, 2020 - 8:18AM SYR By: bas
Z:\BL-Vault\D2\18217A02-1C71-4823-8927-99D5C4054147\D\1821000-1821999\1821162\LL\1206002_GW CONTS_JUNE 2020.dwg

TABLE 1
CAMU Monitoring Schedule

Table 1
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Monitoring Schedule

Sampling Frequency	Parameter	Analytical Method	MDL	Well Location
Annual (June)	Arsenic (Total and Dissolved)	EPA Method 6010C	10 ug/L	B281
	Lead (Total and Dissolved)		50 ug/L	B290
	PCB's	EPA Method 8082A	0.050 ug/L	B291
				B401
				B402R
				B403
				B404
				MW-8R

TABLE 2
Groundwater Level Data

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Monitoring Well	**B281**		**B290**		**B291**		**B401**	
WELL DEPTH (FT):	13.03		10.26		12.54		13.03	
REFERENCE ELEVATION:	423.39		414.61		410.86		413.54	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
16-Jun-20	416.90	6.49	409.37	5.24	402.39	8.47	404.99	8.55
17-Jun-19	418.92	4.47	409.73	4.88	403.40	7.46	407.98	5.56
13-Jun-18	417.32	6.07	409.39	5.22	403.00	7.86	406.27	7.27
28-Jun-17	418.51	4.88	409.60	5.01	403.97	6.89	407.42	6.12
27-Jun-16	416.09	7.30	409.33	5.28	401.80	9.06	404.41	9.13
25-Jun-15	417.77	5.62	409.53	5.08	403.27	7.59	406.94	6.60
10-Jun-14	417.39	6.00	409.52	5.09	402.73	8.13	406.14	7.40
13-Jun-13	419.88	3.51	410.23	4.38	405.34	5.52	408.43	5.11
18-Jun-12	417.31	6.08	409.25	5.36	402.37	8.49	405.11	8.43
22-Jun-11	419.27	4.12	409.71	4.90	403.35	7.51	405.50	8.04
29-Dec-10	418.82	4.57	409.63	4.98	404.14	6.72	407.42	6.12
23-Jun-10	419.53	3.86	409.69	4.92	404.81	6.05	407.79	5.75
16-Dec-09	419.28	4.11	409.71	4.90	403.95	6.91	408.48	5.06
29-Jun-09	413.75	9.64	409.50	5.11	403.53	7.33	406.84	6.70
18-Dec-08	419.31	4.08	409.63	4.98	404.43	6.43	408.39	5.15
05-Jun-08	417.18	6.21	404.35	10.26	403.72	7.14	404.62	8.92
31-Dec-07	416.66	6.73	409.77	4.84	404.73	6.13	408.33	5.21
29-Jun-07	416.44	6.95	410.38	4.23	401.96	8.90	404.83	8.71
19-Dec-06	420.25	3.14	409.57	5.04	404.43	6.43	407.30	6.24

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Monitoring Well	**B402R**		**B403**		**B404**		**MW-8R**	
WELL DEPTH (FT):	12.24		11.26		16.14		10.00	
REFERENCE ELEVATION:	409.44		411.05		410.77		415.30	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
16-Jun-20	405.84	3.60	407.47	3.58	404.50	6.27	411.20	4.10
17-Jun-19	407.11	2.33	408.47	2.58	407.46	3.31	411.90	3.40
13-Jun-18	406.12	3.32	407.79	3.26	404.90	5.87	411.68	3.62
28-Jun-17	406.66	2.78	408.03	3.02	406.79	3.98	411.71	3.59
27-Jun-16	405.04	4.40	406.74	4.31	403.89	6.88	411.31	3.99
25-Jun-15	406.24	3.20	407.61	3.44	405.14	5.63	412.62	2.68
10-Jun-14	405.98	3.46	407.37	3.68	405.14	5.63	412.21	3.09
13-Jun-13	406.69	2.75	408.26	2.79	408.37	2.40	412.95	2.35
18-Jun-12	405.03	4.41	406.95	4.10	404.33	6.44	412.46	2.84
22-Jun-11	405.73	3.71	407.94	3.11	406.08	4.69	412.54	2.76
29-Dec-10	406.64	2.80	407.98	3.07	406.73	4.04	412.18	3.12
23-Jun-10	406.62	2.82	408.23	2.82	407.84	2.93	412.64	2.66
16-Dec-09	406.64	2.80	408.11	2.94	407.56	3.21	411.92	3.38
29-Jun-09	406.46	2.98	408.05	3.00	406.66	4.11	412.72	2.58
18-Dec-08	406.81	2.63	407.91	3.14	406.92	3.85	412.59	2.71
05-Jun-08	405.56	3.88	407.42	3.63	405.42	5.35	411.88	3.42
31-Dec-07	406.97	2.47	408.08	2.97	407.27	3.50	412.45	2.85
29-Jun-07	405.32	4.12	407.20	3.85	404.27	6.50	411.93	3.37
19-Dec-06	405.47	3.97	408.01	3.04	406.76	4.01	412.00	3.30

TABLE 3
Groundwater Performance Monitoring Data

Metalico Aluminum Recovery, Inc.; Syracuse Facility
Table 3
ROTH BROS. SMELTING CORP.
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B281)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B281	Jun-98	-	-	< 0.002	< 0.002	6.53	2690	-	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	< 0.010	7.47	3120	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
	Jun-00	-	-	< 0.001	< 0.001	6.72	2630	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	< 0.001	< 0.001	7.02	2560	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	< 0.001	< 0.001	7.28	1956	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	< 0.001	< 0.001	7.24	2020	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	**0.037**	0.017	< 0.001	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	0.023	< 0.010	< 0.001	< 0.001	6.86	3000	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	< 0.001	-	7.03	2060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.27	1063	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.001	< 0.001	7.32	3010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.010	< 0.001	7.29	3170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.017	< 0.001	0.002	0.001	7.27	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	**0.031**	0.017	< 0.001	< 0.001	7.18	2230	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	< 0.001	0.001	7.47	2940	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	< 0.001	< 0.001	7.03	2990	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.004	< 0.001	7.39	1969	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.48	3000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	0.016	0.011	< 0.001	< 0.001	7.33	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.001	< 0.001	7.19	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	0.010	< 0.003	7.46	2780	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.009	0.024	7.17	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	**0.028**	< 0.010	< 0.003	< 0.003	7.32	778	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	**0.064**	< 0.010	< 0.003	< 0.003	**8.71**	321	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	**0.050**	< 0.010	< 0.003	< 0.003	8.04	249	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.10	2215	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	**0.035**	< 0.010	< 0.003	< 0.003	7.10	1700	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.00	3900	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	0.014	0.005	< 0.003	< 0.003	7.20	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.00	410	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.016	< 0.005	< 0.003	< 0.003	7.10	3600	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	3700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.02	1730	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	7.30	2400	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	6.80	1280	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	6.90	350	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	7.04	2300	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	< 0.015	< 0.015	< 0.100	< 0.050	6.60	3200	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	6.90	1070	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	6.88	3610	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B290)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B290	Jun-98	-	-	**41.900**	< 0.020	6.94	2180	-	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	0.720	7.24	2370	-	-	-	-	-	-	-	-	-
	Jun-00	-	-	**0.045**	< 0.001	6.87	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	**0.050**	< 0.001	7.42	2120	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	**0.092**	< 0.001	7.01	1784	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.007	< 0.001	7.01	1693	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	**0.048**	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	-	-	0.008	< 0.001	6.93	2130	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	**0.042**	-	7.13	1707	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.38	1451	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	**0.059**	< 0.001	7.37	2420	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.021	< 0.001	7.17	2240	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.008	0.002	8.08	1322	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	< 0.001	< 0.001	7.49	1590	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	7.45	1711	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.008	< 0.001	7.24	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	0.003	7.41	1822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	0.013	< 0.001	7.52	2450	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.012	< 0.001	7.68	1663	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	< 0.001	7.17	2600	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	0.023	< 0.003	7.67	1676	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.006	< 0.003	7.26	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.016	0.004	8.10	701	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	0.019	< 0.003	8.47	1431	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.020	< 0.003	8.27	234	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	0.015	< 0.003	7.74	1786	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.20	5400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.50	3600	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.012	< 0.003	7.10	2400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	**0.065**	< 0.003	7.30	3300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.011	0.009	0.007	< 0.003	7.10	2300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	**0.036**	< 0.010	**0.305**	< 0.050	7.10	2900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Aug-12	0.010	< 0.010	< 0.050	< 0.050	6.90	3500	-	-	-	-	-	-	-	-	-
	Jun-13	0.025	< 0.010	< 0.050	< 0.050	7.07	1660	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	0.021	< 0.010	< 0.050	< 0.050	7.40	3500	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	7.30	2160	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	**0.034**	< 0.010	< 0.050	< 0.050	7.10	270	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-17	**0.081**	< 0.010	**0.062**	< 0.050	7.02	2800	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	**0.100**	0.014	< 0.050	< 0.050	6.90	2700	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	7.10	2700	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.01	3384	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B291)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B291	Sep-00	-	-	0.007	0.001	7.31	877	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.001	0.001	7.24	848	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	< 0.001	7.01	752	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	0.012	< 0.010	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	< 0.010	< 0.010	0.002	< 0.001	7.4	1134	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.37	800	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.003	0.001	7.38	1213	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.001	< 0.001	7.21	898	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.012	< 0.010	0.008	0.002	**8.81**	804	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	0.020	0.016	0.002	< 0.001	7.31	860	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	7.53	1167	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.003	< 0.001	7.21	746	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.001	0.001	7.10	958	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.18	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	< 0.010	< 0.010	0.002	0.001	7.36	813	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	< 0.001	7.23	971	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.09	856	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.87	968	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	< 0.010	< 0.010	0.010	0.005	7.58	478	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	**8.62**	650	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	< 0.010	< 0.010	< 0.003	< 0.003	8.21	876	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	8.09	592	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	< 0.010	< 0.010	< 0.003	< 0.003	6.90	950	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	1130	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	< 0.010	< 0.005	< 0.003	< 0.003	7.00	750	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.10	900	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	7.10	890	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	6.93	1020	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	6.70	1030	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	7.20	1030	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	7.10	1020	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	6.96	940	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	< 0.015	< 0.015	< 0.010	< 0.010	6.80	990	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	6.90	990	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.14	925	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B401)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B401	Jun-98	-	-	0.012	< 0.002	-	-	-	-	-	-	-	-	-	-	-
	1999	-	-	0.061	< 0.010	6.69	1510	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-00	-	-	0.044	0.003	6.78	1275	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.350	0.002	7.29	1159	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.059	0.007	7.44	1180	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.033	< 0.001	7.26	810	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	0.210	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	-	-	0.060	0.002	7.48	644	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	0.013	-	7.27	925	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.024	< 0.001	7.32	781	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.010	0.003	7.66	1109	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.010	0.001	7.15	1126	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.021	0.002	8.37	791	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.004	< 0.001	7.48	785	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	**0.031**	< 0.001	7.49	1053	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.005	< 0.001	7.11	1030	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.002	< 0.001	7.21	937	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	0.003	< 0.001	7.36	1038	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.001	7.83	814	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.007	< 0.001	7.18	1066	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	**0.042**	< 0.003	7.46	986	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.011	< 0.003	**6.39**	502	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.008	0.003	7.46	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.32	691	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.017	< 0.003	8.08	930	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.90	693	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	6.90	1110	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	1520	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	6.90	1100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.10	1250	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	1110	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	6.69	1260	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.50	1180	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	7.20	1150	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	6.90	1190	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	7.03	1150	< 0.047	< 0.047	< 0.047	< 0.047	0.063	< 0.047	< 0.047	-	-
	Jul-17	< 0.010	< 0.010	< 0.050	< 0.050	6.99	1140	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-18	< 0.015	< 0.015	< 0.010	< 0.010	6.80	1190	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	6.90	1120	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.06	1096	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B402R)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B402R	Dec-05	-	-	**0.260**	0.001	7.73	3060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**1.20**	< 0.05	-	-
	Jun-06	-	-	0.003	< 0.003	8.37	2960	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	**0.048**	< 0.003	**8.61**	2680	**0.10**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	**0.150**	0.010	8.11	1658	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	**0.042**	< 0.003	8.13	1470	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	**0.033**	< 0.003	7.33	273	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	**0.149**	< 0.003	8.27	1893	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.90	3000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	**0.030**	< 0.003	8.20	2280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	**0.028**	< 0.003	8.30	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	**0.370**	< 0.003	8.40	3200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	**0.034**	0.016	**0.235**	< 0.003	8.20	2800	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	0.015	0.014	< 0.050	< 0.050	7.90	2700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Aug-12	0.012	< 0.010	< 0.050	< 0.050	7.60	2400	-	-	-	-	-	-	-	-	-
	Jun-13	0.012	< 0.010	< 0.050	< 0.050	7.76	2600	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	7.90	2700	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	0.010	< 0.010	< 0.050	< 0.050	8.00	240	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	7.70	250	< 0.047	< 0.050	< 0.047	0.082	< 0.047	< 0.047	< 0.047	-	-
	Aug-16	0.010	< 0.015	0.004	< 0.010	7.50	1320	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	7.64	1500	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	0.009	0.008	0.004	< 0.010	7.70	-	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	0.014	< 0.010	< 0.050	< 0.050	7.70	1760	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.78	1608	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B403)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B403	Jun-98	-	-	**0.284**	< 0.002	7.21	1280	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	**0.240**	0.010	7.36	710	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.17**	< 0.01	-	-
	Jun-00	-	-	0.010	0.004	7.35	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.007	0.003	8.41	520	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.002	0.002	8.12	970	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.004	0.003	7.54	415	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.005	< 0.001	7.11	456	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.52	201	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.97	200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	8.03	536	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.002	< 0.001	7.61	351	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.004	0.001	8.41	235	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.003	0.002	7.44	296	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	0.002	7.65	681	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.001	< 0.001	7.23	662	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.52	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.82	1156	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.002	7.64	1135	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	0.001	7.18	1372	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.36	1479	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	7.85	1719	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	< 0.003	0.005	8.41	822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	**8.61**	913	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	< 0.003	< 0.003	8.25	1121	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.81	771	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.40	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.10	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.20	1280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.30	1020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	**6.31**	1080	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1060	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	960	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.07	970	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.00	960	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	7.70	1010	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	7.10	960	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	0.085	< 0.047	-	-
	Aug-16	< 0.015	< 0.010	< 0.015	< 0.010	7.00	970	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	7.18	900	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	< 0.015	< 0.015	< 0.010	< 0.010	7.10	910	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	7.10	1100	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.30	1146	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B404)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B404	Jun-98	-	-	0.007	0.003	**10.55**	2380	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	< 0.010	< 0.010	6.72	1740	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.17**	< 0.01	-	-
	Jun-00	-	-	0.004	0.002	6.97	1573	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.002	0.002	7.32	1114	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.003	< 0.001	7.47	589	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	0.003	7.54	610	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.003	< 0.001	7.09	731	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.33	374	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.61	272	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	7.63	544	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.001	< 0.001	7.26	526	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	**9.83**	297	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.001	0.002	8.14	286	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	**8.55**	516	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.002	0.001	7.43	559	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.66	348	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.28	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	< 0.001	7.56	367	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	< 0.001	< 0.001	7.14	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.46	523	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.89	474	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.006	0.004	7.24	365	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	7.24	365	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.009	< 0.003	8.07	618	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.08	539	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	6.90	600	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	610	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	6.90	350	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.20	550	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.80	840	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.20	830	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.03	590	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.10	910	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-15	< 0.010	< 0.010	< 0.050	< 0.050	7.10	700	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-16	< 0.010	< 0.010	< 0.050	< 0.050	7.00	660	< 0.047	< 0.050	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-17	< 0.010	< 0.010	< 0.050	< 0.050	6.95	430	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-18	< 0.015	< 0.015	0.004	< 0.010	6.90	630	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	-	-
	Jun-19	< 0.010	< 0.010	< 0.050	< 0.050	6.90	430	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	-	-
	Jun-20	< 0.010	< 0.010	< 0.050	< 0.050	7.40	599	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well 8R)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
8R	Sep-02	-	-	0.004	0.001	**9.21**	933	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.002	-	**9.62**	567	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**2.6**	< 0.05	-	-
	Mar-03	-	-	0.001	0.002	**8.82**	551	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.30**	< 0.05	-	-
	Jun-03	-	-	0.002	0.002	**8.59**	726	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.25**	< 0.05	-	-
	Sep-03	-	-	0.002	< 0.001	8.05	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**5.9**	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	8.37	576	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.6**	< 0.05	-	-
	Mar-04	-	-	0.002	< 0.001	7.91	531	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**2.6**	< 0.05	-	-
	Jun-04	-	-	0.002	< 0.001	8.06	332	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.32**	< 0.05	-	-
	Sep-04	-	-	< 0.001	0.002	7.14	811	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	-	-
	Dec-04	-	-	0.009	< 0.001	7.36	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.98**	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.76	1158	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**1.2**	< 0.05	-	-
	Jun-05	-	-	0.002	0.001	8.00	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.3**	< 0.05	-	-
	Dec-05	-	-	0.001	0.001	7.67	893	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.63**	< 0.05	-	-
	Jun-06	-	-	0.004	< 0.003	8.39	239	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.92**	< 0.05	-	-
	Dec-06	-	-	**0.210**	< 0.003	7.46	549	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**9.3**	< 0.05	-	-
	Jun-07	-	-	0.006	< 0.003	8.48	449	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.9**	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.47	1113	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.70**	< 1.00	-	-
	Jun-08	-	-	**0.210**	< 0.003	7.81	1459	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**6.4**	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.68	2668	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.30	780	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**16**	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.10	1010	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	**6.9**	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.40	22	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	**9.2**	< 2.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.40	11200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.70 J**	< 1.00	-	-
	Jun-11	0.013	0.013	< 0.003	< 0.003	7.10	10400	< 10	< 10	< 10	< 10	< 10	**23**	< 10	< 10	< 10
	Jun-12	0.016	0.012	< 0.050	< 0.050	6.90	15300	-	-	-	< 0.47	< 0.47	**15**	< 0.47	-	-
	Aug-12	0.016	< 0.010	< 0.050	< 0.050	6.90	12500	< 0.05	< 0.05	< 0.05	< 0.47	**0.80**	**1.3**	**0.18 P**	-	-
	Jun-13	< 0.010	0.016	< 0.050	< 0.050	6.46	> 20000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	**4.3**	< 0.24	-	-
	Jun-14	0.018	**0.030**	< 0.050	< 0.050	6.60	720000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	**4.3**	< 0.24	-	-
	Jun-15	< 0.100	< 0.500	< 0.100	< 0.500	7.50	> 20000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	**620**	< 0.24	-	-
	Sep-15	-	-	-	-	-	-	< 0.47	< 0.50	< 0.47	< 0.47	**1.1 P**	**6.4**	< 0.47	-	-
	Jun-16	**0.039**	**0.036**	< 0.100	< 0.500	6.70	> 20000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	**130**	< 0.24	-	-
	Aug-16	**0.060**	**0.058**	**0.130**	**0.065**	6.70	13100	< 50	< 50	< 50	< 50	< 50	**76**	< 50	-	-
	Apr-17	**0.039**	**0.029**	**0.035**	0.015	-	-	< 25	< 25	< 25	< 25	< 25	**30**	< 25	-	-
	Jun-17	**0.070**	**0.060**	< 0.050	< 0.050	6.72	14000	< 25	< 25	< 25	< 25	< 25	**2600**	< 25	-	-
	Jul-17	**0.038**	**0.037**	0.024	0.004	6.77	13700	< 50	< 50	< 50	< 50	< 50	**160**	< 50	-	-
	Jun-18	**0.057**	**0.059**	**0.280**	**0.190**	6.60	6700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	< 0.50	-	-
	Jun-19	0.018	**0.028**	< 0.050	< 0.050	6.70	5500	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**210**	< 9.4	-	-
	Jun-20	0.024	0.013	< 0.050	< 0.050	7.16	8265	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**4.4**	< 0.25	-	-

APPENDIX A
Field Sampling Data Sheets/
Chain of Custody Record

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-281 (MS/MSD)
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	sunny	Temperature:	70° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.49
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.05

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 13:25

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.15
Actual Volume of Water Purged (gallons): 2.5

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / JSY Time: 9:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR Sediment: none
Odor: none

Field Measured Parameters

pH (Standard Units)	6.88	Sp. Conductivity (umhos/cm)	3612
Temperature (F)	65	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-290
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	75°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.24
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.8

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 13:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.4
Actual Volume of Water Purged (gallons): 1

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / GJM Time: 10:20 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR TO SLIGHTLY CLOUDY Sediment: LITTLE FINES
Odor: NONE Yellow

Field Measured Parameters

pH (Standard Units)	7.01	Sp. Conductivity (umhos/cm)	3384
Temperature (F)	65.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-291
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	81°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.47
Measured Well Depth (feet)*:	12.54
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.65

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRS
Date: 14:25
Time: 6/14/2020

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 1.95
Actual Volume of Water Purged (gallons): 0.75

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRS/GJY Time: 11:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.14	Sp. Conductivity (umhos/cm)	925
Temperature (F)	59.7	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-401
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	79 °F

SAMPLE TYPE:

Groundwater	X	Surface Water		Other (specify):	
Sediment		Leachate			

WATER LEVEL DATA

Static Water Level (feet)*:	8.55
Measured Well Depth (feet)*:	11.34
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.45

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 14:00

PURGING METHOD

Equipment:						
	Bailer	X	Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	
	Dedicated		Bladder Pump			

Calculated Volume Of Water To Be Purged (gallons): 1.35

Actual Volume of Water Purged (gallons): 0.5

Did well purge dry?	No		Yes	X
Did well recover?	No		Yes	X

Recovery Time: Overnight

SAMPLING METHOD

Equipment:						
	Bailer		Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	X
	Dedicated		Bladder Pump			

Sampled by: JRT / GJY Time: 11:10 Date: 6/17/2020

SAMPLING DATA

Sample Appearance

Color: CLEAR Sediment: NONE

Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.06	Sp. Conductivity (umhos/cm)	1096
Temperature (F)	57.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Samples Delivered to: Time: Date:

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-402R**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Sunny	Temperature:	81° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.6
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.38

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 1500

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 4.14
Actual Volume of Water Purged (gallons): 4

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / [illegible] 954 Time: 12:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: Slight Haze Sediment: Fines Present
Odor: None

Field Measured Parameters

pH (Standard Units)	7.78	Sp. Conductivity (umhos/cm)	1668
Temperature (F)	66.3	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-403
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	77 °F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.58
Measured Well Depth (feet)*:	11.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.23

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 12:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.69
Actual Volume of Water Purged (gallons): 2

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / GJY Time: 10:45 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR TO SLIGHTLY ~~Cloudy~~ CLOUDY Sediment: NONE
Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.30	Sp. Conductivity (umhos/cm)	1146
Temperature (F)	65.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-404
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	81°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.27
Measured Well Depth (feet)*:	16.14
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.58

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JNT
Date: 6/16/2020
Time: 14:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 4.74
Actual Volume of Water Purged (gallons): 5

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JNT / GTY Time: 12:00 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR Sediment: NONE
Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.4	Sp. Conductivity (umhos/cm)	598.7
Temperature (F)	63.2	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	MW-8R / Dupe-X
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	82 °F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	4.1
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.94

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 15:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.82
Actual Volume of Water Purged (gallons): 2.5

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: 6/17/2020 Time: 12:45 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: White - yellow cloudy Sediment: Fines present
Odor: cutting oil / Petroleum

Field Measured Parameters

pH (Standard Units)	7.16	Sp. Conductivity (umhos/cm)	526.5
Temperature (F)	60.8	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Eight bottles - T-Pb,As; D-Pb,As; PCBs (2) + Dupe-X

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	Equipment Blank
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	73° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	
Measured Well Depth (feet)*:	
Well Casing Diameter (inches):	
Calculated Volume in Well Casing (gallons):	

*depth from measuring point

Measuring Point: ____
Measured by: ____
Date: ____
Time: ____

PURGING METHOD

Equipment: Bailer [ ] Submersible Pump [ ] Air Lift System [ ]
Non-dedicated [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [ ] Bladder Pump [ ]

Calculated Volume Of Water To Be Purged (gallons): ____
Actual Volume of Water Purged (gallons): ____

Did well purge dry? No [ ] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: ____

SAMPLING METHOD

Equipment: Bailer [ ] Submersible Pump [ ] Air Lift System [ ]
Non-dedicated [X] Foot Valve [ ] Peristaltic Pump [X]
Dedicated [ ] Bladder Pump [ ]

Sampled by: JRT / GJY Time: 10:00 Date: 6/17/2022

SAMPLING DATA

Sample Appearance
Color: - Clear Sediment: - none
Odor: - none

Field Measured Parameters

pH (Standard Units)	-	Sp. Conductivity (umhos/cm)	-
Temperature (F)	73 -	Eh-Redox Potential (mV)	-
Turbidity (NTUs)	-	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Calibration Record

Project No: Metalzo SYR - 6206.002.007 Date: 6/17/20

Calibrated By: GJT Time: 0915

pH Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	4.07 → 4.00	(+/- 1.0 pH, pH 3.0 - 5.0) ✓
pH 7:	7.01 → 7.00	(+/- 1.5 pH, pH 5.5 - 8.5) ✓ pass
pH 10:	10.15 → 10.00	(+/- 1.0 pH, ph 9.0 - 11.0) ✓

Sp.Conductivity
Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	6988 → 7000	(+/- 1.0 % Error) ✓ pass

ORP Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
	✓	Myron 6p ORP calibration is calculated by pH and SPC values

~~**Turbidimeter Model: LaMotte 2020we**~~

~~Standard Solution~~	~~Calibration Reading~~	~~Acceptable Range~~
~~0.0~~	~~Blank~~	~~Blank 0.0 NTU~~
~~1.0~~		~~(0.5-1.5 NTU)~~
~~10.0~~		~~(8-12 NTU)~~

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments No turbidity required

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-281 (MS/MSD)
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	sunny	Temperature:	70° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.49
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.05

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 13:25

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.15
Actual Volume of Water Purged (gallons): 2.5

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / JSY Time: 9:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR Sediment: none
Odor: none

Field Measured Parameters

pH (Standard Units)	6.88	Sp. Conductivity (umhos/cm)	3612
Temperature (F)	65	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-290
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	75°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.24
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.8

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 13:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.4
Actual Volume of Water Purged (gallons): 1

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / GJM Time: 10:20 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR TO SLIGHTLY CLOUDY Sediment: LITTLE FINES
Odor: NONE Yellow

Field Measured Parameters

pH (Standard Units)	7.01	Sp. Conductivity (umhos/cm)	3384
Temperature (F)	65.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-291
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	81°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.47
Measured Well Depth (feet)*:	12.54
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.65

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRS
Date: 14:25
Time: 6/14/2020

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 1.95
Actual Volume of Water Purged (gallons): 0.75

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRS/GJY Time: 11:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.14	Sp. Conductivity (umhos/cm)	925
Temperature (F)	59.7	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-401
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	79 °F

SAMPLE TYPE:

Groundwater	X	Surface Water		Other (specify):	
Sediment		Leachate			

WATER LEVEL DATA

Static Water Level (feet)*:	8.55
Measured Well Depth (feet)*:	11.34
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.45

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 14:00

PURGING METHOD

Equipment:						
	Bailer	X	Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	
	Dedicated		Bladder Pump			

Calculated Volume Of Water To Be Purged (gallons): 1.35

Actual Volume of Water Purged (gallons): 0.5

Did well purge dry?	No		Yes	X
Did well recover?	No		Yes	X

Recovery Time: Overnight

SAMPLING METHOD

Equipment:						
	Bailer		Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	X
	Dedicated		Bladder Pump			

Sampled by: JRT / GJY Time: 11:10 Date: 6/17/2020

SAMPLING DATA

Sample Appearance

Color: CLEAR Sediment: NONE

Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.06	Sp. Conductivity (umhos/cm)	1096
Temperature (F)	57.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Samples Delivered to: Time: Date:

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-402R**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Sunny	Temperature:	81° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.6
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.38

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 1500

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 4.14
Actual Volume of Water Purged (gallons): 4

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / [illegible] 954 Time: 12:30 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: Slight Haze Sediment: Fines Present
Odor: None

Field Measured Parameters

pH (Standard Units)	7.78	Sp. Conductivity (umhos/cm)	1668
Temperature (F)	66.3	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-403
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	77 °F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.58
Measured Well Depth (feet)*:	11.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.23

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 12:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.69
Actual Volume of Water Purged (gallons): 2

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JRT / GJY Time: 10:45 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR TO SLIGHTLY ~~Cloudy~~ CLOUDY Sediment: NONE
Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.30	Sp. Conductivity (umhos/cm)	1146
Temperature (F)	65.5	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-404
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	81°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.27
Measured Well Depth (feet)*:	16.14
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.58

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JNT
Date: 6/16/2020
Time: 14:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 4.74
Actual Volume of Water Purged (gallons): 5

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: JNT / GTY Time: 12:00 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: CLEAR Sediment: NONE
Odor: NONE

Field Measured Parameters

pH (Standard Units)	7.4	Sp. Conductivity (umhos/cm)	598.7
Temperature (F)	63.2	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	MW-8R / Dupe-X
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	82 °F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	4.1
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.94

*depth from measuring point

Measuring Point: Top of Riser
Measured by: JRT
Date: 6/16/2020
Time: 15:45

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.82
Actual Volume of Water Purged (gallons): 2.5

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: OVERNIGHT

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: 6/17/2020 Time: 12:45 Date: 6/17/2020

SAMPLING DATA

Sample Appearance
Color: White - yellow cloudy Sediment: Fines present
Odor: cutting oil / Petroleum

Field Measured Parameters

pH (Standard Units)	7.16	Sp. Conductivity (umhos/cm)	526.5
Temperature (F)	60.8	Eh-Redox Potential (mV)	
Turbidity (NTUs)		Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Eight bottles - T-Pb,As; D-Pb,As; PCBs (2) + Dupe-X

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Rev. 4/09 (MPS)

Barton & Loguidice

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	Equipment Blank
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Sunny	Temperature:	73° F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	
Measured Well Depth (feet)*:	
Well Casing Diameter (inches):	
Calculated Volume in Well Casing (gallons):	

*depth from measuring point

Measuring Point: ____
Measured by: ____
Date: ____
Time: ____

PURGING METHOD

Equipment: Bailer [ ] Submersible Pump [ ] Air Lift System [ ]
Non-dedicated [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [ ] Bladder Pump [ ]

Calculated Volume Of Water To Be Purged (gallons): ____
Actual Volume of Water Purged (gallons): ____

Did well purge dry? No [ ] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: ____

SAMPLING METHOD

Equipment: Bailer [ ] Submersible Pump [ ] Air Lift System [ ]
Non-dedicated [X] Foot Valve [ ] Peristaltic Pump [X]
Dedicated [ ] Bladder Pump [ ]

Sampled by: JRT / GJY Time: 10:00 Date: 6/17/2022

SAMPLING DATA

Sample Appearance
Color: - Clear Sediment: - none
Odor: - none

Field Measured Parameters

pH (Standard Units)	-	Sp. Conductivity (umhos/cm)	-
Temperature (F)	73 -	Eh-Redox Potential (mV)	-
Turbidity (NTUs)	-	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

Rev. 4/09 (MPS)

Calibration Record

Project No: Metalzo SYR - 6206.002.007 Date: 6/17/20

Calibrated By: GJT Time: 0915

pH Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	4.07 → 4.00	(+/- 1.0 pH, pH 3.0 - 5.0) ✓
pH 7:	7.01 → 7.00	(+/- 1.5 pH, pH 5.5 - 8.5) ✓ pass
pH 10:	10.15 → 10.00	(+/- 1.0 pH, ph 9.0 - 11.0) ✓

Sp.Conductivity
Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	6988 → 7000	(+/- 1.0 % Error) ✓ pass

ORP Instrument Model: Myron 6p

Standard Solution	Calibration Reading	Acceptable Range
	✓	Myron 6p ORP calibration is calculated by pH and SPC values

~~**Turbidimeter Model: LaMotte 2020we**~~

~~Standard Solution~~	~~Calibration Reading~~	~~Acceptable Range~~
~~0.0~~	~~Blank~~	~~Blank 0.0 NTU~~
~~1.0~~		~~(0.5-1.5 NTU)~~
~~10.0~~		~~(8-12 NTU)~~

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments No turbidity required

APPENDIX B
Analytical Laboratory Reports
(ALS Environmental)

June 26, 2020 Service Request No:R2005158

Mr. Jeff Reed
Barton & Loguidice, PC
443 Electronics Parkway
Liverpool, NY 13088

Laboratory Results for: CAMU

Dear Mr.Reed,

Enclosed are the results of the sample(s) submitted to our laboratory June 17, 2020
For your reference, these analyses have been assigned our service request number **R2005158.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

CC: Ginny Hopkins

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Metalico Aluminum Recovery
Project: CAMU
Sample Matrix: Water

Service Request: R2005158
Date Received: 06/17/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty water samples were received for analysis at ALS Environmental on 06/17/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8082A, r2005954-017,019: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 06/25/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-8R			Lab ID: R2005158-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Arsenic, Total	24			10	ug/L	6010C
Aroclor 1254	4.4			0.25	ug/L	8082A

CLIENT ID: MW-8R Diss			Lab ID: R2005158-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Arsenic, Dissolved	13			10	ug/L	6010C

CLIENT ID: Dupe-X			Lab ID: R2005158-019			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Arsenic, Total	20			10	ug/L	6010C
Aroclor 1254	5.8	P		0.25	ug/L	8082A

CLIENT ID: Dupe-X Diss			Lab ID: R2005158-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Arsenic, Dissolved	13			10	ug/L	6010C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Metalico Aluminum Recovery **Service Request:**R2005158
Project: CAMU/1206.006.007

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2005158-001	B-281	6/17/2020	0930
R2005158-002	B-281 Diss	6/17/2020	0930
R2005158-003	B-290	6/17/2020	1020
R2005158-004	B-290 Diss	6/17/2020	1020
R2005158-005	B-291	6/17/2020	1130
R2005158-006	B-291 Diss	6/17/2020	1130
R2005158-007	B-401	6/17/2020	1110
R2005158-008	B-401 Diss	6/17/2020	1110
R2005158-009	B-402R	6/17/2020	1230
R2005158-010	B-402R Diss	6/17/2020	1230
R2005158-011	B-403	6/17/2020	1045
R2005158-012	B-403 Diss	6/17/2020	1045
R2005158-013	B-404	6/17/2020	1200
R2005158-014	B-404 Diss	6/17/2020	1200
R2005158-015	MW-8R	6/17/2020	1245
R2005158-016	MW-8R Diss	6/17/2020	1245
R2005158-017	Equipment Blank	6/17/2020	1000
R2005158-018	Equipment Blank Diss	6/17/2020	1000
R2005158-019	Dupe-X	6/17/2020	
R2005158-020	Dupe-X Diss	6/17/2020	

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T051259

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

014, 015, 016, 017, 018, 019, 020, 021, 022, 023

Project Name: CAMU	
Project Number: 1206.006.007	Report To ~~Dave Hanny~~ JOSH THOMAS
Company / Address Barton & Loguidice, PC ~~11 Centre Park Suite 203 Rochester NY, 14614~~ 443 ELECTRONICS PKWY LIVERPOOL, NY 13088	
Phone # ~~585-336-7100~~ 315-457-5200	FAX #
Sampler Signature	Sampler Printed Name JOSHUA R. THOMAS

CLIENT SAMPLE ID	LABID	SAMPLING Date	Time	Matrix	NUMBER OF CONTAINERS	7D 8082A / PCB LL	180D 6010C / As D	6010C / As T	6010C / Pb D	6010C / Pb T	Remarks
1. B-281		6/17/2020	9:30	Liquid	8	X	X	X	X	X	MS/MSD
2. B-290			10:20	Liquid	4	X	X	X	X	X	
3. B-291			11:30	Liquid	4	X	X	X	X	X	
4. B-401			11:10	Liquid	4	X	X	X	X	X	
5. B-402R			12:30	Liquid	4	X	X	X	X	X	
6. B-403			10:45	Liquid	4	X	X	X	X	X	
7. B-404			12:00	Liquid	4	X	X	X	X	X	
8. MW-8R			12:45	Liquid	4	X	X	X	X	X	
9. Equipment Blank			10:00	Liquid	4	X	X	X	X	X	
10. Dupe-X			—	Liquid	4	X	X	X	X	X	

Special Instructions/Comments:

- EMAIL JTHOMAS@BARTONANDLOGUIDICE.COM
- PROJECT MANAGER: JEFF REED JREED@BARTONANDLOGUIDICE.COM

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

STANDARD
REQUESTED FAX DATE

STANDARD
Requested Report Date

Report Requirements

___ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

EData ____Yes X No

Invoice Information

P.O.# 1206.002.007

Bill To: ACCOUNTS PAYABLE

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name JOSHUA R. THOMAS	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm B&L	Firm AJ	Firm	Firm	Firm	Firm
Date/Time 6/17/2020 14:30	Date/Time 6/17/2020 1645	Date/Time	Date/Time	Date/Time	Date/Time

R2005158 5
Barton & Loguidice, PC
CAMU

Cooler Receipt and Preservation Check Form

R2005158 5
Barton & Loguidice, PC
CAMU

Project/Client B+L Folder Number

Cooler received on 6/17/2020 by: [illegible]

COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

3. Temperature Readings Date: 6/17/2020 Time: 1650 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	5.4	5.3	#6				
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by [illegible] on 6/17/20 at 1655
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/18/2020 Time: 1350 by: DW

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	227349	HNO_3	✓	✓	1119092		MW-8R, Dup-X	1.0	132802013	<2
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 20-03-17, 090219-10K
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007

Sample Name: B-281 **Date Collected:** 06/17/20
Lab Code: R2005158-001 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-281 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-002 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: B-290 **Date Collected:** 06/17/20
Lab Code: R2005158-003 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-290 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-004 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007

Sample Name: B-291 **Date Collected:** 06/17/20
Lab Code: R2005158-005 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-291 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-006 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: B-401 **Date Collected:** 06/17/20
Lab Code: R2005158-007 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-401 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-008 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007

Sample Name: B-402R **Date Collected:** 06/17/20
Lab Code: R2005158-009 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-402R Diss **Date Collected:** 06/17/20
Lab Code: R2005158-010 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: B-403 **Date Collected:** 06/17/20
Lab Code: R2005158-011 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-403 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-012 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007

Sample Name: B-404 **Date Collected:** 06/17/20
Lab Code: R2005158-013 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: B-404 Diss **Date Collected:** 06/17/20
Lab Code: R2005158-014 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: MW-8R **Date Collected:** 06/17/20
Lab Code: R2005158-015 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: MW-8R Diss **Date Collected:** 06/17/20
Lab Code: R2005158-016 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	NMANSEN
6010C	AKONZEL	KMCLAEN

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007

Sample Name: Equipment Blank **Date Collected:** 06/17/20
Lab Code: R2005158-017 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: Equipment Blank Diss **Date Collected:** 06/17/20
Lab Code: R2005158-018 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

Sample Name: Dupe-X **Date Collected:** 06/17/20
Lab Code: R2005158-019 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
8082A	KSERCU	BALLGEIER

Sample Name: Dupe-X Diss **Date Collected:** 06/17/20
Lab Code: R2005158-020 **Date Received:** 06/17/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 09:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-281	**Units:**	ug/L
Lab Code:	R2005158-001	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1221	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1232	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1242	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1248	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1254	0.051 U	0.051	1	06/23/20 17:18	6/22/20	
Aroclor 1260	0.051 U	0.051	1	06/23/20 17:18	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	36	10 - 125	06/23/20 17:18	
Tetrachloro-m-xylene	60	18 - 126	06/23/20 17:18	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-290	**Units:**	ug/L
Lab Code:	R2005158-003	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1221	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1232	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1242	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1248	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1254	0.046 U	0.046	1	06/23/20 18:19	6/22/20	
Aroclor 1260	0.046 U	0.046	1	06/23/20 18:19	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	35	10 - 125	06/23/20 18:19	
Tetrachloro-m-xylene	59	18 - 126	06/23/20 18:19	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-291	**Units:**	ug/L
Lab Code:	R2005158-005	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1221	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1232	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1242	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1248	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1254	0.046 U	0.046	1	06/23/20 18:40	6/22/20	
Aroclor 1260	0.046 U	0.046	1	06/23/20 18:40	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 125	06/23/20 18:40	
Tetrachloro-m-xylene	55	18 - 126	06/23/20 18:40	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:10
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-401	**Units:**	ug/L
Lab Code:	R2005158-007	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1221	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1232	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1242	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1248	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1254	0.051 U	0.051	1	06/23/20 19:00	6/22/20	
Aroclor 1260	0.051 U	0.051	1	06/23/20 19:00	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	10 - 125	06/23/20 19:00	
Tetrachloro-m-xylene	51	18 - 126	06/23/20 19:00	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-402R	**Units:**	ug/L
Lab Code:	R2005158-009	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1221	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1232	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1242	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1248	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1254	0.050 U	0.050	1	06/23/20 19:21	6/22/20	
Aroclor 1260	0.050 U	0.050	1	06/23/20 19:21	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	13	10 - 125	06/23/20 19:21	
Tetrachloro-m-xylene	60	18 - 126	06/23/20 19:21	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-403	**Units:**	ug/L
Lab Code:	R2005158-011	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1221	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1232	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1242	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1248	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1254	0.051 U	0.051	1	06/23/20 20:01	6/22/20	
Aroclor 1260	0.051 U	0.051	1	06/23/20 20:01	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 125	06/23/20 20:01	
Tetrachloro-m-xylene	55	18 - 126	06/23/20 20:01	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-404	**Units:**	ug/L
Lab Code:	R2005158-013	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1221	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1232	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1242	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1248	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1254	0.046 U	0.046	1	06/23/20 20:22	6/22/20	
Aroclor 1260	0.046 U	0.046	1	06/23/20 20:22	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10 - 125	06/23/20 20:22	
Tetrachloro-m-xylene	64	18 - 126	06/23/20 20:22	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	MW-8R	**Units:**	ug/L
Lab Code:	R2005158-015	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.25 U	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1221	0.25 U	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1232	0.25 U	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1242	0.25 U	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1248	0.25 U	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1254	**4.4**	0.25	5	06/24/20 17:16	6/22/20	
Aroclor 1260	0.25 U	0.25	5	06/24/20 17:16	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 125	06/24/20 17:16	*
Tetrachloro-m-xylene	0 *	18 - 126	06/24/20 17:16	*

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2005158-017	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1221	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1232	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1242	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1248	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1254	0.046 U	0.046	1	06/23/20 20:42	6/22/20	
Aroclor 1260	0.046 U	0.046	1	06/23/20 20:42	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 125	06/23/20 20:42	
Tetrachloro-m-xylene	62	18 - 126	06/23/20 20:42	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Dupe-X	**Units:**	ug/L
Lab Code:	R2005158-019	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.25 U	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1221	0.25 U	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1232	0.25 U	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1242	0.25 U	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1248	0.25 U	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1254	**5.8 P**	0.25	5	06/24/20 17:35	6/22/20	
Aroclor 1260	0.25 U	0.25	5	06/24/20 17:35	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 125	06/24/20 17:35	*
Tetrachloro-m-xylene	0 *	18 - 126	06/24/20 17:35	*

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 09:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-281	**Basis:**	NA
Lab Code:	R2005158-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 17:08	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 17:08	06/22/20	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 09:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-281 Diss	**Basis:**	NA
Lab Code:	R2005158-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 17:25	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 17:25	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-290	**Basis:**	NA
Lab Code:	R2005158-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 17:47	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 17:47	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-290 Diss	**Basis:**	NA
Lab Code:	R2005158-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 17:51	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 17:51	06/22/20	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-291	**Basis:**	NA
Lab Code:	R2005158-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 17:54	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 17:54	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-291 Diss	**Basis:**	NA
Lab Code:	R2005158-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 17:57	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 17:57	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:10
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-401	**Basis:**	NA
Lab Code:	R2005158-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 18:00	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:00	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 11:10
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-401 Diss	**Basis:**	NA
Lab Code:	R2005158-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 18:04	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:04	06/22/20	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-402R	**Basis:**	NA
Lab Code:	R2005158-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 18:07	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:07	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:30
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-402R Diss	**Basis:**	NA
Lab Code:	R2005158-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 18:10	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:10	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-403	**Basis:**	NA
Lab Code:	R2005158-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 18:20	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:20	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-403 Diss	**Basis:**	NA
Lab Code:	R2005158-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 18:23	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:23	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-404	**Basis:**	NA
Lab Code:	R2005158-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 18:26	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:26	06/22/20	

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	B-404 Diss	**Basis:**	NA
Lab Code:	R2005158-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 18:30	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:30	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	MW-8R	**Basis:**	NA
Lab Code:	R2005158-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**24**	ug/L	10	1	06/23/20 18:33	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:33	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 12:45
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	MW-8R Diss	**Basis:**	NA
Lab Code:	R2005158-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	**13**	ug/L	10	1	06/24/20 12:50	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:36	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Equipment Blank	**Basis:**	NA
Lab Code:	R2005158-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 18:39	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:39	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20 10:00
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Equipment Blank Diss	**Basis:**	NA
Lab Code:	R2005158-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 18:43	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:43	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Dupe-X	**Basis:**	NA
Lab Code:	R2005158-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**20**	ug/L	10	1	06/23/20 18:46	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 18:46	06/22/20	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20
Sample Matrix:	Water	**Date Received:**	06/17/20 16:45
Sample Name:	Dupe-X Diss	**Basis:**	NA
Lab Code:	R2005158-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	**13**	ug/L	10	1	06/23/20 18:49	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 18:49	06/22/20	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Metalico Aluminum Recovery **Service Request:** R2005158
Project: CAMU/1206.006.007
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-125	Tetrachloro-m-xylene 18-126
B-281	R2005158-001	36	60
B-290	R2005158-003	35	59
B-291	R2005158-005	29	55
B-401	R2005158-007	34	51
B-402R	R2005158-009	13	60
B-403	R2005158-011	23	55
B-404	R2005158-013	54	64
MW-8R	R2005158-015	0*	0*
Equipment Blank	R2005158-017	62	62
Dupe-X	R2005158-019	0*	0*
Method Blank	RQ2006525-05	74	62
Lab Control Sample	RQ2006525-06	79	63
Duplicate Lab Control Sample	RQ2006525-07	73	57
B-281 MS	RQ2006525-01	46	62
B-281 DMS	RQ2006525-02	34	69

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	06/17/20
Sample Matrix:	Water	**Date Received:**	06/17/20
		Date Analyzed:	06/23/20
		Date Extracted:	06/22/20

Duplicate Matrix Spike Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	B-281	**Units:**	ug/L
Lab Code:	R2005158-001	**Basis:**	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2006525-01			Duplicate Matrix Spike RQ2006525-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.051 U	0.365	0.505	72	0.371	0.505	73	13-146	2	30
Aroclor 1260	0.051 U	0.333	0.505	66	0.340	0.505	67	10-135	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2006525-05	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1221	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1232	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1242	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1248	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1254	0.050 U	0.050	1	06/23/20 16:16	6/22/20	
Aroclor 1260	0.050 U	0.050	1	06/23/20 16:16	6/22/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 125	06/23/20 16:16	
Tetrachloro-m-xylene	62	18 - 126	06/23/20 16:16	

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.007
Sample Matrix: Water

Service Request: R2005158
Date Analyzed: 06/23/20

Duplicate Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

			Lab Control Sample		Duplicate Lab Control Sample					
			RQ2006525-06		RQ2006525-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	0.336	0.500	67	0.323	0.500	65	24-119	4	30
Aroclor 1260	8082A	0.334	0.500	67	0.326	0.500	65	23-115	2	30

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R2005158
Project:	CAMU/1206.006.007	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2005158-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	06/23/20 17:02	06/22/20	
Arsenic, Total	6010C	10 U	ug/L	10	1	06/23/20 17:02	06/22/20	
Lead, Dissolved	6010C	50 U	ug/L	50	1	06/23/20 17:02	06/22/20	
Lead, Total	6010C	50 U	ug/L	50	1	06/23/20 17:02	06/22/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.007
Sample Matrix: Water

Service Request:R2005158
Date Collected:06/17/20
Date Received:06/17/20
Date Analyzed:6/23/20

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281
Lab Code: R2005158-001

Units:ug/L
Basis:NA

			Matrix Spike R2005158-001MS			Duplicate Matrix Spike R2005158-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Arsenic, Total	6010C	10 U	43	40	108	42	40	105	75-125	3	20
Lead, Total	6010C	50 U	501	500	100	500	500	100	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.007
Sample Matrix: Water

Service Request:R2005158
Date Collected:06/17/20
Date Received:06/17/20
Date Analyzed:6/23/20

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281 Diss
Lab Code: R2005158-002

Units:ug/L
Basis:NA

			Matrix Spike R2005158-002MS			Duplicate Matrix Spike R2005158-002DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Arsenic, Dissolved	6010C	10 U	40	40	101	40	40	101	75-125	<1	20
Lead, Dissolved	6010C	50 U	490	500	98	495	500	99	75-125	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.007
Sample Matrix: Water

Service Request: R2005158
Date Analyzed: 06/23/20

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2005158-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	37	40	93	80-120
Arsenic, Total	6010C	37	40	93	80-120
Lead, Dissolved	6010C	509	500	102	80-120
Lead, Total	6010C	509	500	102	80-120

The experience to
listen
The power to
solve℠

Barton
&Loguidice

www.bartonandloguidice.com