GROUNDWATER PERFORMANCE MONITORING REPORT

June 2017 Sampling

ROTH BROS. SMELTING CORP.
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

Prepared For:
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Barton & Loguidice, D.P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

Table of Contents

List of Figures

List of Tables

List of Appendices

1.0 INTRODUCTION

This report presents the results of the June 2017 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 now 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 2017 annual monitoring event and also addresses data generated from the April 2017 additional sampling event for MW-8R, and July 2017 confirmatory 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 30, 2017. All samples were submitted to ALS Environmental (ALS) in Rochester, New York for analysis.

Two locations (B401 and MW-8R) demonstrated results from the June 2017 sampling event that were inconsistent with historical data. In response, B&L conducted confirmatory sampling of these three wells on July 28, 2017 and submitted the samples to TestAmerica Laboratories (TAL) in Amherst, New York for analysis.

This report also details the results of sampling of MW-8R performed on April 14, 2017, as recommended in the 2016 Annual Report, to obtain a sample during a period of higher groundwater and note any differences in potential seasonal variation. The April 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 new 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 (New York NELAC Laboratory I.D. # 10145) and TAL (New York NELAC Laboratory I.D. # 10026). Table 3 provides an historical summary of the analytical groundwater data for this project, including the results of the April, June, and July 2017 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 ug/L*
Aroclor 1221	0.09 ug/L*
Aroclor 1232	0.09 ug/L*
Aroclor 1242	0.09 ug/L*
Aroclor 1248	0.09 ug/L*
Aroclor 1254	0.09 ug/L*
Aroclor 1260	0.09 ug/L*
Aroclor 1262	0.09 ug/L*
Aroclor 1268	0.09 ug/L*

Notes: *Limit applies to sum of all Aroclors

The results of the 2017 sampling events indicate that the groundwater quality conditions at the CAMU have remained generally consistent since the last monitoring event and appear to 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 – In April 2017, monitoring location MW-8R was sampled and exceeded the NYSDEC Class GA groundwater standard of 0.09 ug/L for Aroclor 1254 with a concentration of 30 ug/L.

The June 2017 monitoring event demonstrated a detection of Aroclor 1254 below the NYSDEC Class GA groundwater standard within B401 (0.063 ug/L) and an exceedance of Aroclor 1254 within MW-8R (2600 ug/L).

Confirmatory re-sampling of PCBs within monitoring wells B401 and MW-8R took place on July 28, 2017. The July B401 results did not exhibit any PCB detections; however, the July MW-8R results exhibited Aroclor 1254 at a concentration (160 ug/L), much lower than the June concentration, but remaining above the groundwater standard.

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 upgradient of the CAMU. The well is located directly adjacent to a car dismantling area, a former used engine block storage area, 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.

No other PCB detections were reported within the remaining monitoring locations for the June 2017 monitoring event.

Specific Conductivity – Monitoring location MW-8R continued to exhibit elevated specific conductivity result during the 2017 monitoring event. 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 – The Class GA standard of 0.025 mg/L for total lead was exceeded at monitoring locations B290 (0.062 mg/L) during the June event; however, dissolved lead was not detected. The Class GA standard for total lead was also exceeded at MW-8R during the April sampling event; however, the concentration of dissolved lead was below the Class GA standard. No total or dissolved lead was detected at MW-8R during the June event. During the July resampling event MW-8R exhibited both total lead (0.024 mg/L) and dissolved lead (0.004 mg/L) at concentrations below the Class GA standard. Total and dissolved lead have previously been detected within MW-8R as indicated in the historical data included in Table 3. The remaining monitoring locations did not exhibit any total or dissolved lead detections during the June 2017 monitoring event.

Total & Dissolved Arsenic – The Class GA standard of 0.025 mg/L for total arsenic was exceeded at monitoring locations B290 during the June event (0.062 mg/L). Dissolved arsenic was not detected within B290 during the June event. The Class GA standard for total and dissolved arsenic was exceeded at MW-8R during each of the April (T = 0.039 mg/L, D = 0.029 mg/L), June (T = 0.070 mg/L, D = 0.060 mg/L), and July (T = 0.038 mg/L, D = 0.037 mg/L) events. No arsenic was detected within any of the remaining monitoring wells during the 2017 sampling events.

Figures

JUNE 2017
GROUNDWATER CONTOUR MAP

METALICO ALUMINUM RECOVERY, INC.
FACILITY NO. 7102372

ONONDAGA COUNTY, NEW YORK
EAST SYRACUSE

N

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

MIDLER PARK DRIVE

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

MARCUS M.
BOOK 3771 OF DEED

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

CONSOLIDATED RAIL CORPORATION

NIAGARA MOHAWK POWER CORPORATION

B-281 (418.51)

MW-8R (411.71)

B-401 (407.42)

B-291 (403.97)

B-404 (406.79)

B-402R (406.66)

B-290 (409.60)

B-403 (408.03)

418 417 416 415 414 413 412 411 410 409 408 407 406 405 404

METAL BLDG. | BLDG. | METAL BLDG. | GAS HOUSE

METAL SHED

BUILDING

METAL BUILDING WITH STORAGE BINS

STORAGE BIN

ELEC.

WALLS

CONCRETE

SCRAP METAL STORAGE

DRIVING LANE

MAIN BUILDING

EXISTING BUILDING
AREA = 109,289 Sq. Ft.

ADDN.

CAMU AREA

METAL SHED

PROPANE STORAGE BUILDING

PARCEL NO. 2
METALICO SYRACUSE REALTY, Inc.

AREA = 22.405± ACRES

20'

GAS LINE MKR

GAS LINE MKRS.

GAS TEST

OVERHEAD PNEUMATIC TUBE

METAL BLDG.

US TEL MKR POLE

SCALE

SWITCH GEAR

350'± PROPOSED LANDSCAPE EASEMENT

30'

OVERHEAD PIPES ON STEEL I-BEAMS

PLANT NO. 1
EXISTING BUILDING

STAIRS

BLOWER HOUSE

BAG HOUSE

PROPANE BLDG.

RAMP

ELEC.

BIN WALLS

STEEL COVER

14.5'

CNY SANDTRAP, LLC
BOOK 4838 OF DEEDS, PAGE 204

WRE PROPERTIES, LLC
BOOK 4331 OF DEEDS, PAGE 207

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

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

SHED STORAGE

ROTH BROTHERS

LEGEND:

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

125' 0 125'
1"=125'

Barton & Loguidice, D.P.C.

Date	AUGUST 2017
Scale	1" = 125'
Figure Number	1
Project Number	1206.002

Plotted: Aug 29, 2017 - 8:54AM SYR By: jgs2
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Tables

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 6010	3 ug/L	B281
	Lead (Total and Dissolved)		5 ug/L	B290
	PCB's	EPA Method 8082	0.050 ug/L	B291
				B401
				B402R
				B403
				B404
				MW-8R

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	
REFERNCE ELEVATION:	423.39		414.61		410.86		413.54	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
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**		**8R**	
WELL DEPTH (FT):	12.24		11.26		16.14		10.00	
REFERNCE ELEVATION:	409.44		411.05		410.77		415.30	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
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

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	-	-

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	-	-

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	-	-

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	-	-

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	-	-

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	< 1.00	< 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	-	-

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	-	-

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	**2.60**	< 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	**5.90**	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	8.37	576	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.60**	< 0.05	-	-
	Mar-04	-	-	0.002	< 0.001	7.91	531	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**2.60**	< 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	**1.20**	< 0.05	-	-
	Jun-05	-	-	0.002	0.001	8.00	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.30**	< 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	**9.30**	< 0.05	-	-
	Jun-07	-	-	0.006	< 0.003	8.48	449	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.90**	< 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	**6.40**	< 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	**16.00**	< 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	**6.90**	< 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	**9.20**	< 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	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	**23.00**	< 10.00	< 10.00	< 10.00
	Jun-12	0.016	0.012	< 0.050	< 0.050	6.90	15300	-	-	-	< 0.47	< 0.47	**15.00**	< 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**	**1.30**	**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	**4.30**	< 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	**4.30**	< 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	**620.00**	< 0.24	-	-
	Sep-15	-	-	-	-	-	-	< 0.47	< 0.50	< 0.47	< 0.47	**1.1 P**	**6.40**	< 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	**130.00**	< 0.24	-	-
	Aug-16	**0.060**	**0.058**	**0.130**	**0.065**	6.70	13100	< 50.00	< 50.00	< 50.00	< 50.00	< 50.00	**76.00**	< 50.00	-	-
	Apr-17	**0.039**	**0.029**	**0.035**	0.015	-	-	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	**30.00**	< 25.00	-	-
	Jun-17	**0.070**	**0.060**	< 0.050	< 0.050	6.72	14000	< 25.00	< 25.00	< 25.00	< 25.00	< 25.00	**2600.00**	< 25.00	-	-
	Jul-17	**0.038**	**0.037**	0.024	0.004	6.77	13700	< 50.00	< 50.00	< 50.00	< 50.00	< 50.00	**160.00**	< 50.00	-	-

Appendix A

Barton & Loguidice

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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:	Overcast	Temperature:	75F

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

WATER LEVEL DATA

Static Water Level (feet)*:	4.88
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.30

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/29/17
Time: 13:50

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): 3.90
Actual Volume of Water Purged (gallons): 2.25 < 1/3 bailers

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	[ ]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: MPS / GTY Time: 08:47 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.04	Sp. Conductivity (umhos/cm)	2300
Temperature (°C)	15.1	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:

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FIELD SAMPLING DATA SHEET

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

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

WATER LEVEL DATA

Static Water Level (feet)*:	5.01
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.84

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/28/17
Time: 13:15

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): 2.52
Actual Volume of Water Purged (gallons): 1.25 < ¼ bailers

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: MPS / GJY Time: 09:11 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Faint orange Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.02	Sp. Conductivity (umhos/cm)	3500
Temperature (F)	65.3	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:

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FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Overcast

SAMPLE LOCATION: B-401
JOB #: 1206.002.007
Temperature: 75 F

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

WATER LEVEL DATA

Static Water Level (feet)*:	6.12
Measured Well Depth (feet)*:	11.34
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.84

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/28/17
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): 2.52
Actual Volume of Water Purged (gallons): 1.00

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	[ ]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: MPS / GJY Time: 09:30 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.03	Sp. Conductivity (umhos/cm)	1150
Temperature (F)	59.5	Eh-Redox Potential (mV)	-
Turbidity (NTUs)	-	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type): 4 bottles - T+D - As, As, PCBs

Samples Delivered to: ____ Time: ____ Date: ____

COMMENTS:

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FIELD SAMPLING DATA SHEET

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SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-291**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Cl. Rain	Temperature:	74

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

WATER LEVEL DATA

Static Water Level (feet)*:	6.89
Measured Well Depth (feet)*:	12.54
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.90

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/30/17
Time: 13:55

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): 2.70
Actual Volume of Water Purged (gallons): 1.25

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [Y] 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: MPS / GJY Time: 09:50 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: **Clear** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	6.96	Sp. Conductivity (umhos/cm)	940
Temperature (F)	60.1	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:

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FIELD SAMPLING DATA SHEET

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SITE:	Metalico - Thompson Road	**SAMPLE LOCATION:**	B-404
CLIENT:	Metalico Aluminum Recovery, Inc.	**JOB #:**	1206.002.007
Weather Conditions:	Overcast	Temperature:	75F

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

WATER LEVEL DATA

Static Water Level (feet)*:	3.93
Measured Well Depth (feet)*:	16.14
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.95

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/28/17
Time: 14:05

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): 5.85
Actual Volume of Water Purged (gallons): 6.00

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

SAMPLING METHOD

Equipment:

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

Sampled by: MPS / GJV Time: 10:15 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: Few orange Particles
Odor: None

Field Measured Parameters

pH (Standard Units)	6.95	Sp. Conductivity (umhos/cm)	430
Temperature (F)	67.0	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:

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FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Overcast

SAMPLE LOCATION: B-402R
JOB #: 1206.002.007
Temperature: 75°

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

WATER LEVEL DATA

Static Water Level (feet)*:	2.78
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.57

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/28/17
Time: 14:30

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): ~~3.03~~ 4.53
Actual Volume of Water Purged (gallons): 3.25

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	[ ]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: MAS/GJY Time: 12:47 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Faint yellow-brown Sediment: Few fines
Odor: None

Field Measured Parameters

pH (Standard Units)	7.64	Sp. Conductivity (umhos/cm)	1500
Temperature (F)	65.3	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:

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FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Overcast

SAMPLE LOCATION: B-403
JOB #: 1206.002.007
Temperature: 75°F

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

WATER LEVEL DATA

Static Water Level (feet)*:	3.02
Measured Well Depth (feet)*:	11.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.32

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/30/17
Time: 14:39

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): 3.96
Actual Volume of Water Purged (gallons): 1.50

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	[ ]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: MPS/GJY Time: 11:05 Date: 06/30/17

SAMPLING DATA

Sample Appearance
Color: Yellow Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.18	Sp. Conductivity (umhos/cm)	900
Temperature (F)	63.1	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:

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FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Overcast

SAMPLE LOCATION: MW-8R / Dupe-X
JOB #: 1206.002.007
Temperature: 75F

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

WATER LEVEL DATA

Static Water Level (feet)*:	3.59
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.03

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJB
Date: 08/30/17
Time: 15:19

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): 3.09
Actual Volume of Water Purged (gallons): 2.00
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 [ ] Foot Valve [ ] Peristaltic Pump [X]
Dedicated [ ] Bladder Pump [ ]

Sampled by: MAS / GJY Time: 11:38 Date: 08/30/17

SAMPLING DATA

Sample Appearance
Color: Milky grey Sediment: None
Odor: Strong chemical

Field Measured Parameters

pH (Standard Units)	6.72	Sp. Conductivity (umhos/cm)	14,000
Temperature (F)	65.8	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:
Milky grey purge water. Strong chemical odor.

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FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: _____

SAMPLE LOCATION: Equipment Blank
JOB #: 1206.002.007
Temperature: _____

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: MAS/GJY Time: 12:20 Date: 06/30/17

SAMPLING DATA

Sample Appearance

Color: - Sediment: -
Odor: -

Field Measured Parameters

pH (Standard Units)	-	Sp. Conductivity (umhos/cm)	-
Temperature (F)	-	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:

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Calibration Record

Project No: 120600J

Calibrated By: MPS / GJY

Date: 06/30/17

Time: 08:40

pH Instrument Model: pH Testr 10

Standard Solution	Calibration Reading	Acceptable Range	
pH 4:	4.00	(+/- 1.0 pH, pH 3.0 - 5.0)	Pass / Fail
pH 7:	7.00	(+/- 1.5 pH, pH 5.5 - 8.5)	
pH 10:	10.01	(+/- 1.0 pH, ph 9.0 - 11.0)	

Sp.Conductivity

Instrument Model: EC Testr 11

Standard Solution	Calibration Reading	Acceptable Range	
1413 uS	1410	(+/- 1.0 % Error = 1399-1427)	Pass / Fail

ORP Instrument Model: ORP Testr 10

Standard Solution	Calibration Reading	Acceptable Range	
240 mV		(+/- 5% at 25°C, 209 - 231 mV)	Pass / Fail
or			
YSI Zobell Soln		(Refer to YSI calibration table)	

Turbidimeter Model: LaMotte 2020we

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

Dissolve Oxygen Meter Model: YSI EcoSense

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

Comments: _____

Updated: 010410 MPS

Appendix B

July 12, 2017 Service Request No:R1706006

Mr. Matthew Strodel
Barton & Loguidice, PC
443 Electronics Parkway
Liverpool, NY 13088

Laboratory Results for: CAMU

Dear Mr.Strodel,

Enclosed are the results of the sample(s) submitted to our laboratory June 30, 2017
For your reference, these analyses have been assigned our service request number **R1706006.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, 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) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

ALS Group USA. Corp. dba ALS Environmental

Lisa Reyes for
Brady Kalkman
Project Manager

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
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www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.008
Sample Matrix: Water

Service Request:R1706006
Date Received:6/30/17

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Ten Water samples were received for analysis at ALS Environmental on 06/30/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semi-Volatile Organic Analyses:

Method 8082, R1706006-015,019: 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 Analyses:

No significant anomalies were noted with this analysis.

Approved by _____ Date 7/12/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: B-290	Lab ID: R1706006-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Arsenic, Total	81		5	10	ug/L	6010C
Lead, Total	62		5	50	ug/L	6010C

CLIENT ID: B-401	Lab ID: R1706006-007					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Aroclor 1248	0.063		0.025	0.047	ug/L	8082A

CLIENT ID: MW-8R	Lab ID: R1706006-015					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Arsenic, Total	70		5	10	ug/L	6010C
Aroclor 1254	2600		120	240	ug/L	8082A

CLIENT ID: MW-8R Dissolved	Lab ID: R1706006-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Arsenic, Dissolved	60		5	10	ug/L	6010C

CLIENT ID: Equipemnt Blank	Lab ID: R1706006-017					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Aroclor 1254	0.25		0.025	0.047	ug/L	8082A

CLIENT ID: Dupe-X	Lab ID: R1706006-019					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Arsenic, Total	72		5	10	ug/L	6010C
Aroclor 1254	2300		120	240	ug/L	8082A

CLIENT ID: Dupe-X Dissolved	Lab ID: R1706006-020					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Arsenic, Dissolved	52		5	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:**R1706006
Project: CAMU/1206.006.008

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1706006-001	B-281	6/30/2017	0847
R1706006-002	B-281 Dissolved	6/30/2017	0847
R1706006-003	B-290	6/30/2017	0911
R1706006-004	B-290 Dissolved	6/30/2017	0911
R1706006-005	B-291	6/30/2017	0950
R1706006-006	B-291 Dissolved	6/30/2017	0950
R1706006-007	B-401	6/30/2017	0926
R1706006-008	B-401 Dissolved	6/30/2017	0926
R1706006-009	B-402R	6/30/2017	1047
R1706006-010	B-402R Dissolved	6/30/2017	1047
R1706006-011	B-403	6/30/2017	1105
R1706006-012	B-403 Dissolved	6/30/2017	1105
R1706006-013	B-404	6/30/2017	1015
R1706006-014	B-404 Dissolved	6/30/2017	1015
R1706006-015	MW-8R	6/30/2017	1128
R1706006-016	MW-8R Dissolved	6/30/2017	1128
R1706006-017	Equipemnt Blank	6/30/2017	1220
R1706006-018	Equipment Blank Dissolved	6/30/2017	1220
R1706006-019	Dupe-X	6/30/2017	
R1706006-020	Dupe-X Dissolved	6/30/2017	

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: 1206.006.007 008
Report To: ~~Dave Hanny~~ Matt Strodel
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614
Phone # 585-325-7199
FAX #
Sampler Signature
Sampler Printed Name: Matt Strodel

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		6/26/17	08:47	Liquid	4/8	X	X	X	X	X	MS/MSD
2. B-290			09:11	Liquid	4	X	X	X	X	X	
3. B-291			09:50	Liquid	4	X	X	X	X	X	
4. B-401			09:26	Liquid	4	X	X	X	X	X	
5. B-402R			10:47	Liquid	4	X	X	X	X	X	
6. B-403			11:05	Liquid	4	X	X	X	X	X	
7. B-404			10:15	Liquid	4	X	X	X	X	X	
8. MW-8R			11:38	Liquid	4	X	X	X	X	X	
9. Equipment Blank			12:20	Liquid	4	X	X	X	X	X	
10. Dupe-X			—	Liquid	4	X	X	X	X	X	

Special Instructions/Comments:

Turnaround Requirements
___ RUSH (SURCHARGES APPLY)
X Standard
REQUESTED FAX DATE
5d
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 ____No

Invoice Information
P.O.#
Bill To: Metalico Syracuse

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Grant Young	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: B&L	Firm	Firm	Firm	Firm	Firm
Date/Time: 14:35 6/30/17	Date/Time: 6/30/17 1435	Date/Time	Date/Time	Date/Time	Date/Time

R1706006 5
Barton & Loguidice, PC
CAMU

Cooler Receipt and Preservation Check Form

R1706006 5
Barton & Loguidice, PC
CAMU

Project/Client B+L Folder Number R17-6006

Cooler received on 6/30/17 by: @

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)

8. Temperature Readings Date: 6/30/17 Time: 1427 ID: IR#7 ~~IR#8~~ From: (Temp Blank) Sample Bottle

Observed Temp (°C)	4.4	3.9					
Correction Factor (°C)	+0.9	+0.9					
Corrected Temp (°C)	5.3	4.4					
Temp from:Type of bottle	Cont Tube →						
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 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 @ on 6/30/17 at 1440
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 6/30/17 Time: 1744 by: DM

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 Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	201817	HNO_3	✓		B082615 7F	5/18				
≤2		H_2SO_4								
<4		$NaHSO_4$								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
		$Na_2S_2O_3$	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 050617-2AAC, 041517-1DK

Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: _____
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% (25% for CLP) 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	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[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 http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

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:** R1706006
Project: CAMU/1206.006.008

Sample Name: B-281 **Date Collected:** 06/30/17
Lab Code: R1706006-001 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-281 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-002 **Date Received:** 06/30/17
Sample Matrix: Water

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

Sample Name: B-290 **Date Collected:** 06/30/17
Lab Code: R1706006-003 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-290 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-004 **Date Received:** 06/30/17
Sample Matrix: Water

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

Client: Metalico Aluminum Recovery **Service Request:** R1706006
Project: CAMU/1206.006.008

Sample Name: B-291 **Date Collected:** 06/30/17
Lab Code: R1706006-005 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-291 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-006 **Date Received:** 06/30/17
Sample Matrix: Water

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

Sample Name: B-401 **Date Collected:** 06/30/17
Lab Code: R1706006-007 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-401 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-008 **Date Received:** 06/30/17
Sample Matrix: Water

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

Client: Metalico Aluminum Recovery **Service Request:** R1706006
Project: CAMU/1206.006.008

Sample Name: B-402R **Date Collected:** 06/30/17
Lab Code: R1706006-009 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-402R Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-010 **Date Received:** 06/30/17
Sample Matrix: Water

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

Sample Name: B-403 **Date Collected:** 06/30/17
Lab Code: R1706006-011 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-403 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-012 **Date Received:** 06/30/17
Sample Matrix: Water

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

Client: Metalico Aluminum Recovery **Service Request:** R1706006
Project: CAMU/1206.006.008

Sample Name: B-404 **Date Collected:** 06/30/17
Lab Code: R1706006-013 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: B-404 Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-014 **Date Received:** 06/30/17
Sample Matrix: Water

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

Sample Name: MW-8R **Date Collected:** 06/30/17
Lab Code: R1706006-015 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: MW-8R Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-016 **Date Received:** 06/30/17
Sample Matrix: Water

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

Client: Metalico Aluminum Recovery **Service Request:** R1706006
Project: CAMU/1206.006.008

Sample Name: Equipemnt Blank **Date Collected:** 06/30/17
Lab Code: R1706006-017 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: Equipment Blank Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-018 **Date Received:** 06/30/17
Sample Matrix: Water

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

Sample Name: Dupe-X **Date Collected:** 06/30/17
Lab Code: R1706006-019 **Date Received:** 06/30/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
8082A	DMURPHY	MPEDRO

Sample Name: Dupe-X Dissolved **Date Collected:** 06/30/17
Lab Code: R1706006-020 **Date Received:** 06/30/17
Sample Matrix: Water

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

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
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
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
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
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:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 08:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-281	**Units:**	ug/L
Lab Code:	R1706006-001	**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	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/07/17 14:14	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/07/17 14:14	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 125	07/07/17 14:14	
Tetrachloro-m-xylene	69	18 - 126	07/07/17 14:14	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:11
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-290	**Units:**	ug/L
Lab Code:	R1706006-003	**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	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/07/17 14:53	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/07/17 14:53	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	29	10 - 125	07/07/17 14:53	
Tetrachloro-m-xylene	63	18 - 126	07/07/17 14:53	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:50
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-291	**Units:**	ug/L
Lab Code:	R1706006-005	**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	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/07/17 15:13	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/07/17 15:13	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	40	10 - 125	07/07/17 15:13	
Tetrachloro-m-xylene	72	18 - 126	07/07/17 15:13	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:26
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-401	**Units:**	ug/L
Lab Code:	R1706006-007	**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	0.047 U	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1248	**0.063**	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/11/17 11:25	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/11/17 11:25	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 125	07/11/17 11:25	
Tetrachloro-m-xylene	89	18 - 126	07/11/17 11:25	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-402R	**Units:**	ug/L
Lab Code:	R1706006-009	**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	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/07/17 15:52	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/07/17 15:52	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	10 - 125	07/07/17 15:52	
Tetrachloro-m-xylene	65	18 - 126	07/07/17 15:52	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:05
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-403	**Units:**	ug/L
Lab Code:	R1706006-011	**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	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/07/17 16:12	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/07/17 16:12	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 125	07/07/17 16:12	
Tetrachloro-m-xylene	62	18 - 126	07/07/17 16:12	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:15
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-404	**Units:**	ug/L
Lab Code:	R1706006-013	**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	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1254	0.047 U	0.047	1	07/12/17 09:43	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/12/17 09:43	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10 - 125	07/12/17 09:43	
Tetrachloro-m-xylene	76	18 - 126	07/12/17 09:43	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:28
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	MW-8R	**Units:**	ug/L
Lab Code:	R1706006-015	**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	240 U	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1221	240 U	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1232	240 U	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1242	240 U	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1248	240 U	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1254	**2600**	240	1000	07/11/17 14:55	7/3/17	
Aroclor 1260	240 U	240	1000	07/11/17 14:55	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 125	07/11/17 14:55	D
Tetrachloro-m-xylene	0 *	18 - 126	07/11/17 14:55	D

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 12:20
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Equipemnt Blank	**Units:**	ug/L
Lab Code:	R1706006-017	**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	0.047 U	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1221	0.047 U	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1232	0.047 U	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1242	0.047 U	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1248	0.047 U	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1254	**0.25**	0.047	1	07/11/17 11:45	7/3/17	
Aroclor 1260	0.047 U	0.047	1	07/11/17 11:45	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 125	07/11/17 11:45	
Tetrachloro-m-xylene	70	18 - 126	07/11/17 11:45	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Dupe-X	**Units:**	ug/L
Lab Code:	R1706006-019	**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	240 U	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1221	240 U	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1232	240 U	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1242	240 U	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1248	240 U	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1254	**2300**	240	1000	07/11/17 13:54	7/3/17	
Aroclor 1260	240 U	240	1000	07/11/17 13:54	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 125	07/11/17 13:54	D
Tetrachloro-m-xylene	0 *	18 - 126	07/11/17 13:54	D

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:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 08:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-281	**Basis:**	NA
Lab Code:	R1706006-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10	U	ug/L	10	1	07/06/17 15:48	07/05/17	
Lead, Total	6010C	50	U	ug/L	50	1	07/06/17 15:48	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 08:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-281 Dissolved	**Basis:**	NA
Lab Code:	R1706006-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10	U	ug/L	10	1	07/06/17 16:04	07/05/17	
Lead, Dissolved	6010C	50	U	ug/L	50	1	07/06/17 16:04	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:11
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-290	**Basis:**	NA
Lab Code:	R1706006-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**81**	ug/L	10	1	07/06/17 16:27	07/05/17	
Lead, Total	6010C	**62**	ug/L	50	1	07/06/17 16:27	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:11
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-290 Dissolved	**Basis:**	NA
Lab Code:	R1706006-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10	U	ug/L	10	1	07/06/17 16:31	07/05/17	
Lead, Dissolved	6010C	50	U	ug/L	50	1	07/06/17 16:31	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:50
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-291	**Basis:**	NA
Lab Code:	R1706006-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	07/06/17 16:34	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 16:34	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:50
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-291 Dissolved	**Basis:**	NA
Lab Code:	R1706006-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10	U	ug/L	10	1	07/06/17 16:37	07/05/17	
Lead, Dissolved	6010C	50	U	ug/L	50	1	07/06/17 16:37	07/05/17	

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:26
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-401	**Basis:**	NA
Lab Code:	R1706006-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10	U	ug/L	10	1	07/06/17 16:41	07/05/17	
Lead, Total	6010C	50	U	ug/L	50	1	07/06/17 16:41	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 09:26
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-401 Dissolved	**Basis:**	NA
Lab Code:	R1706006-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10	U	ug/L	10	1	07/06/17 16:44	07/05/17	
Lead, Dissolved	6010C	50	U	ug/L	50	1	07/06/17 16:44	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-402R	**Basis:**	NA
Lab Code:	R1706006-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	07/06/17 16:47	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 16:47	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:47
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-402R Dissolved	**Basis:**	NA
Lab Code:	R1706006-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	07/06/17 16:51	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 16:51	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:05
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-403	**Basis:**	NA
Lab Code:	R1706006-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10	U	ug/L	10	1	07/06/17 17:01	07/05/17	
Lead, Total	6010C	50	U	ug/L	50	1	07/06/17 17:01	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:05
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-403 Dissolved	**Basis:**	NA
Lab Code:	R1706006-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	07/06/17 17:04	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 17:04	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:15
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-404	**Basis:**	NA
Lab Code:	R1706006-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10	U	ug/L	10	1	07/06/17 17:08	07/05/17	
Lead, Total	6010C	50	U	ug/L	50	1	07/06/17 17:08	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 10:15
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	B-404 Dissolved	**Basis:**	NA
Lab Code:	R1706006-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10	U	ug/L	10	1	07/06/17 17:11	07/05/17	
Lead, Dissolved	6010C	50	U	ug/L	50	1	07/06/17 17:11	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:28
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	MW-8R	**Basis:**	NA
Lab Code:	R1706006-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**70**	ug/L	10	1	07/06/17 17:14	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 17:14	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 11:28
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	MW-8R Dissolved	**Basis:**	NA
Lab Code:	R1706006-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	**60**	ug/L	10	1	07/06/17 17:18	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 17:18	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 12:20
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Equipemnt Blank	**Basis:**	NA
Lab Code:	R1706006-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	1	07/06/17 17:21	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 17:21	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17 12:20
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Equipment Blank Dissolved	**Basis:**	NA
Lab Code:	R1706006-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	10 U	ug/L	10	1	07/06/17 17:25	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 17:25	07/05/17	

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Dupe-X	**Basis:**	NA
Lab Code:	R1706006-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	**72**	ug/L	10	1	07/06/17 17:28	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 17:28	07/05/17	

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17
Sample Matrix:	Water	**Date Received:**	06/30/17 14:35
Sample Name:	Dupe-X Dissolved	**Basis:**	NA
Lab Code:	R1706006-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	**52**	ug/L	10	1	07/06/17 17:31	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 17:31	07/05/17	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Metalico Aluminum Recovery **Service Request:** R1706006
Project: CAMU/1206.006.008
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	R1706006-001	62	69
B-290	R1706006-003	29	63
B-291	R1706006-005	40	72
B-401	R1706006-007	52	89
B-402R	R1706006-009	44	65
B-403	R1706006-011	49	62
B-404	R1706006-013	61	76
MW-8R	R1706006-015	0 *	0 *
Equipemnt Blank	R1706006-017	26	70
Dupe-X	R1706006-019	0 *	0 *
Method Blank	RQ1706291-01	60	68
Lab Control Sample	RQ1706291-02	62	68
Duplicate Lab Control Sample	RQ1706291-03	62	64
B-281 MS	RQ1706291-04	57	69

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	06/30/17
Sample Matrix:	Water	**Date Received:**	06/30/17
		Date Analyzed:	07/7/17
		Date Extracted:	07/3/17

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

Sample Name:	B-281	**Units:**	ug/L
Lab Code:	R1706006-001	**Basis:**	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

Matrix Spike
RQ1706291-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aroclor 1016	0.025 U	0.365	0.472	77	16-127
Aroclor 1260	0.025 U	0.348	0.472	74	19-162

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.

Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1706291-01	**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	07/07/17 13:15	7/3/17	
Aroclor 1221	0.050 U	0.050	1	07/07/17 13:15	7/3/17	
Aroclor 1232	0.050 U	0.050	1	07/07/17 13:15	7/3/17	
Aroclor 1242	0.050 U	0.050	1	07/07/17 13:15	7/3/17	
Aroclor 1248	0.050 U	0.050	1	07/07/17 13:15	7/3/17	
Aroclor 1254	0.050 U	0.050	1	07/07/17 13:15	7/3/17	
Aroclor 1260	0.050 U	0.050	1	07/07/17 13:15	7/3/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 125	07/07/17 13:15	
Tetrachloro-m-xylene	68	18 - 126	07/07/17 13:15	

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QA/QC Report

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.008
Sample Matrix: Water

Service Request: R1706006
Date Analyzed: 07/07/17

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

Units:ug/L
Basis:NA

			Lab Control Sample RQ1706291-02			Duplicate Lab Control Sample RQ1706291-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	0.337	0.500	67	0.349	0.500	70	40-140	3	30
Aroclor 1260	8082A	0.362	0.500	72	0.395	0.500	79	24-157	9	30

Metals

ALS Environmental—Rochester Laboratory
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Analytical Report

Client:	Metalico Aluminum Recovery	**Service Request:**	R1706006
Project:	CAMU/1206.006.008	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1706006-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	07/06/17 15:41	07/05/17	
Arsenic, Total	6010C	10 U	ug/L	10	1	07/06/17 15:41	07/05/17	
Lead, Dissolved	6010C	50 U	ug/L	50	1	07/06/17 15:41	07/05/17	
Lead, Total	6010C	50 U	ug/L	50	1	07/06/17 15:41	07/05/17	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.008
Sample Matrix: Water

Service Request:R1706006
Date Collected:06/30/17
Date Received:06/30/17
Date Analyzed:7/6/17

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281
Lab Code: R1706006-001

Units:ug/L
Basis:NA

			Matrix Spike R1706006-001MS			Duplicate Matrix Spike R1706006-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Arsenic, Total	6010C	5 U	45	40	112	44	40	110	75-125	2	20
Lead, Total	6010C	5 U	521	500	104	521	500	104	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.

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QA/QC Report

Client: Metalico Aluminum Recovery
Project: CAMU/1206.006.008
Sample Matrix: Water

Service Request:R1706006
Date Collected:06/30/17
Date Received:06/30/17
Date Analyzed:7/6/17

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281 Dissolved
Lab Code: R1706006-002

Units:ug/L
Basis:NA

			Matrix Spike R1706006-002MS			Duplicate Matrix Spike R1706006-002DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Arsenic, Dissolved	6010C	5 U	45	40	112	39	40	97	75-125	14	20
Lead, Dissolved	6010C	5 U	514	500	103	521	500	104	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/1206.006.008
Sample Matrix: Water

Service Request: R1706006
Date Analyzed: 07/06/17

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R1706006-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	38	40	96	80-120
Arsenic, Total	6010C	38	40	96	80-120
Lead, Dissolved	6010C	535	500	107	80-120
Lead, Total	6010C	535	500	107	80-120

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-121907-1
Client Project/Site: Metalico Wells Analysis

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

Attn: Matthew Strodel

Authorized for release by:
8/14/2017 7:47:55 AM

Orlette Johnson, Senior Project Manager
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Table of Contents

Definitions/Glossary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

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

Glossary

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

Job ID: 480-121907-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-121907-1

Receipt
The samples were received on 7/29/2017 2:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 480-369834 recovered above the upper control limit for PCB-1221. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: EQUIPMENT BLANK (480-121907-1), B-401 (480-121907-2) and MW-8R (480-121907-3).

Method(s) 8082A: The following sample was diluted due to an abundance of target analytes: MW-8R (480-121907-3). As such, surrogate recoveries are estimated and not representative, and elevated reporting limits (RLs) are provided.

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

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

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-369629.

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

Detection Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Client Sample ID: EQUIPMENT BLANK — Lab Sample ID: 480-121907-1

No Detections.

Client Sample ID: B-401 — Lab Sample ID: 480-121907-2

No Detections.

Client Sample ID: MW-8R — Lab Sample ID: 480-121907-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	160		50	25	ug/L	100		8082A	Total/NA
Arsenic	0.038		0.015	0.0056	mg/L	1		6010C	Total/NA
Lead	0.024		0.010	0.0030	mg/L	1		6010C	Total/NA
Arsenic, Dissolved	0.037		0.015	0.0056	mg/L	1		6010C	Dissolved
Lead, Dissolved	0.0036	J B	0.010	0.0030	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-121907-1
Matrix: Water
Date Collected: 07/28/17 12:15
Date Received: 07/29/17 02:05

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1221	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1232	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1242	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1248	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1254	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 15:03	1
PCB-1260	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*40*		*39 - 121*	*07/31/17 14:10*	*08/01/17 15:03*	*1*
DCB Decachlorobiphenyl	*60*		*19 - 120*	*07/31/17 14:10*	*08/01/17 15:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/02/17 08:13	08/04/17 14:28	1
Lead	ND		0.010	0.0030	mg/L		08/02/17 08:13	08/04/17 14:28	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		08/03/17 06:51	08/04/17 19:21	1
Lead, Dissolved	ND		0.010	0.0030	mg/L		08/03/17 06:51	08/04/17 19:21	1

Client Sample ID: B-401

Lab Sample ID: 480-121907-2
Matrix: Water
Date Collected: 07/28/17 12:23
Date Received: 07/29/17 02:05

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1221	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1232	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1242	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1248	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1254	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 15:20	1
PCB-1260	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*39 - 121*	*07/31/17 14:10*	*08/01/17 15:20*	*1*
DCB Decachlorobiphenyl	*37*		*19 - 120*	*07/31/17 14:10*	*08/01/17 15:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/02/17 08:13	08/04/17 14:32	1
Lead	ND		0.010	0.0030	mg/L		08/02/17 08:13	08/04/17 14:32	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		08/03/17 06:51	08/04/17 19:25	1
Lead, Dissolved	ND		0.010	0.0030	mg/L		08/03/17 06:51	08/04/17 19:25	1

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Client Sample ID: MW-8R
Date Collected: 07/28/17 12:42
Date Received: 07/29/17 02:05

Lab Sample ID: 480-121907-3
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50	18	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1221	ND		50	18	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1232	ND		50	18	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1242	ND		50	18	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1248	ND		50	18	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1254	**160**		50	25	ug/L		07/31/17 14:10	08/01/17 15:36	100
PCB-1260	ND		50	25	ug/L		07/31/17 14:10	08/01/17 15:36	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*39 - 121*	*07/31/17 14:10*	*08/01/17 15:36*	*100*
DCB Decachlorobiphenyl	*0*	*X*	*19 - 120*	*07/31/17 14:10*	*08/01/17 15:36*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**		0.015	0.0056	mg/L		08/02/17 08:13	08/04/17 14:35	1
Lead	**0.024**		0.010	0.0030	mg/L		08/02/17 08:13	08/04/17 14:35	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.037**		0.015	0.0056	mg/L		08/03/17 06:51	08/04/17 19:28	1
Lead, Dissolved	**0.0036**	**J B**	0.010	0.0030	mg/L		08/03/17 06:51	08/04/17 19:28	1

Surrogate Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (39-121)	DCB2 (19-120)								
480-121907-1	EQUIPMENT BLANK	40	60								
480-121907-2	B-401	43	37								
480-121907-3	MW-8R	0 X	0 X								
LCS 480-369629/2-A	Lab Control Sample	87	60								
LCSD 480-369629/3-A	Lab Control Sample Dup	88	55								
MB 480-369629/1-A	Method Blank	91	51								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-369629/1-A
Matrix: Water
Analysis Batch: 369834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1221	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1232	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1242	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1248	ND		0.50	0.18	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1254	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 13:27	1
PCB-1260	ND		0.50	0.25	ug/L		07/31/17 14:10	08/01/17 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*39 - 121*	*07/31/17 14:10*	*08/01/17 13:27*	*1*
DCB Decachlorobiphenyl	*51*		*19 - 120*	*07/31/17 14:10*	*08/01/17 13:27*	*1*

Lab Sample ID: LCS 480-369629/2-A
Matrix: Water
Analysis Batch: 369834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	4.39		ug/L		110	62 - 130		
PCB-1260			4.00	3.83		ug/L		96	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*39 - 121*
DCB Decachlorobiphenyl	*60*		*19 - 120*

Lab Sample ID: LCSD 480-369629/3-A
Matrix: Water
Analysis Batch: 369834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 369629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	4.50		ug/L		113	62 - 130	2	50
PCB-1260			4.00	3.77		ug/L		94	56 - 123	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*39 - 121*
DCB Decachlorobiphenyl	*55*		*19 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-369818/1-A
Matrix: Water
Analysis Batch: 370776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/02/17 08:13	08/04/17 13:02	1
Lead	ND		0.010	0.0030	mg/L		08/02/17 08:13	08/04/17 13:02	1

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

Lab Sample ID: LCS 480-369818/2-A
Matrix: Water
Analysis Batch: 370776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.207		mg/L		103	80 - 120
Lead	0.200	0.209		mg/L		104	80 - 120

Lab Sample ID: MB 480-370115/1-A
Matrix: Water
Analysis Batch: 370496

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 370115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		08/03/17 06:51	08/03/17 22:29	1
Lead, Dissolved	0.00436	J	0.010	0.0030	mg/L		08/03/17 06:51	08/03/17 22:29	1

Lab Sample ID: LCS 480-370115/2-A
Matrix: Water
Analysis Batch: 370496

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 370115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic, Dissolved	0.200	0.194		mg/L		97	80 - 120
Lead, Dissolved	0.200	0.196		mg/L		98	80 - 120

GC Semi VOA

Prep Batch: 369629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-121907-2	B-401	Total/NA	Water	3510C	
480-121907-3	MW-8R	Total/NA	Water	3510C	
MB 480-369629/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-369629/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-369629/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 369834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Total/NA	Water	8082A	369629
480-121907-2	B-401	Total/NA	Water	8082A	369629
480-121907-3	MW-8R	Total/NA	Water	8082A	369629
MB 480-369629/1-A	Method Blank	Total/NA	Water	8082A	369629
LCS 480-369629/2-A	Lab Control Sample	Total/NA	Water	8082A	369629
LCSD 480-369629/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	369629

Metals

Prep Batch: 369818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Total/NA	Water	3005A	
480-121907-2	B-401	Total/NA	Water	3005A	
480-121907-3	MW-8R	Total/NA	Water	3005A	
MB 480-369818/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-369818/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 370115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Dissolved	Water	3005A	
480-121907-2	B-401	Dissolved	Water	3005A	
480-121907-3	MW-8R	Dissolved	Water	3005A	
MB 480-370115/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-370115/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 370496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-370115/1-A	Method Blank	Total Recoverable	Water	6010C	370115
LCS 480-370115/2-A	Lab Control Sample	Total Recoverable	Water	6010C	370115

Analysis Batch: 370776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Total/NA	Water	6010C	369818
480-121907-2	B-401	Total/NA	Water	6010C	369818
480-121907-3	MW-8R	Total/NA	Water	6010C	369818
MB 480-369818/1-A	Method Blank	Total/NA	Water	6010C	369818
LCS 480-369818/2-A	Lab Control Sample	Total/NA	Water	6010C	369818

Analysis Batch: 370781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-1	EQUIPMENT BLANK	Dissolved	Water	6010C	370115

Metals (Continued)

Analysis Batch: 370781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121907-2	B-401	Dissolved	Water	6010C	370115
480-121907-3	MW-8R	Dissolved	Water	6010C	370115

Lab Chronicle

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-121907-1

Date Collected: 07/28/17 12:15

Matrix: Water

Date Received: 07/29/17 02:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369629	07/31/17 14:10	RLT	TAL BUF
Total/NA	Analysis	8082A		1	369834	08/01/17 15:03	JMO	TAL BUF
Dissolved	Prep	3005A			370115	08/03/17 06:51	EMB	TAL BUF
Dissolved	Analysis	6010C		1	370781	08/04/17 19:21	LMH	TAL BUF
Total/NA	Prep	3005A			369818	08/02/17 08:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	370776	08/04/17 14:28	AMH	TAL BUF

Client Sample ID: B-401

Lab Sample ID: 480-121907-2

Date Collected: 07/28/17 12:23

Matrix: Water

Date Received: 07/29/17 02:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369629	07/31/17 14:10	RLT	TAL BUF
Total/NA	Analysis	8082A		1	369834	08/01/17 15:20	JMO	TAL BUF
Dissolved	Prep	3005A			370115	08/03/17 06:51	EMB	TAL BUF
Dissolved	Analysis	6010C		1	370781	08/04/17 19:25	LMH	TAL BUF
Total/NA	Prep	3005A			369818	08/02/17 08:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	370776	08/04/17 14:32	AMH	TAL BUF

Client Sample ID: MW-8R

Lab Sample ID: 480-121907-3

Date Collected: 07/28/17 12:42

Matrix: Water

Date Received: 07/29/17 02:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			369629	07/31/17 14:10	RLT	TAL BUF
Total/NA	Analysis	8082A		100	369834	08/01/17 15:36	JMO	TAL BUF
Dissolved	Prep	3005A			370115	08/03/17 06:51	EMB	TAL BUF
Dissolved	Analysis	6010C		1	370781	08/04/17 19:28	LMH	TAL BUF
Total/NA	Prep	3005A			369818	08/02/17 08:13	EMB	TAL BUF
Total/NA	Analysis	6010C		1	370776	08/04/17 14:35	AMH	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-121907-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-121907-1	EQUIPMENT BLANK	Water	07/28/17 12:15	07/29/17 02:05
480-121907-2	B-401	Water	07/28/17 12:23	07/29/17 02:05
480-121907-3	MW-8R	Water	07/28/17 12:42	07/29/17 02:05

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-121907 COC

Client Information

Client Contact: Matthew Strodel	Sampler: MH Strodel	Lab PM: Johnson, Orlette S	Car
	Phone: 315-457-5200	E-Mail: orlette.johnson@testamericainc.com	

COC No: 480-100358-22995.1
Page: Page 1 of 1
Job #: 206.002.005

Company: Barton & Loguidice, D.P.C.
Address: 443 Electronics Parkway
City: Liverpool
State, Zip: NY, 13088
Phone: 315-744-3850(Tel)
Email: mstrodel@bartonandloguidice.com
Project Name: Metalico Wells Analysis
Site: Metalico CAMU

Due Date Requested: STD
TAT Requested (days):
PO #: 39118
WO #:
Project #: 48014531
SSOW#:

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs - OLM04.2	6010C - Total As, Pb	6010C - Dissolved As, Pb	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	D		
~~B-402R~~ Equipment Blank	07/28/17	12:15	G	Water	Y	N	X	X	X	4	
~~B-403~~ B-401	↓	12:23	↓	Water	↓	↓	X	X	X	4	
MW-8R	↓	12:42	↓	Water	↓	↓	X	X	X	4	

RE
7-28-17

Page 17 of 18

433325 - Syracuse SC

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: MH Strodel	Date/Time: 07/28/17 13:30	Company	Received by: RE 7-28-17
Relinquished by: RE 7-28-17	Date/Time: 7-28-17, 18:00	Company SyR	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Received by: RE 7-28-17	Date/Time: 07-28-17, 13:30	Company SyR	
Received by:	Date/Time: 7-29-17 0205	Company TAS	
Received by:	Date/Time:	Company	

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

8/14/2017

Login Sample Receipt Checklist

Client: Barton & Loguidice, D.P.C. Job Number: 480-121907-1

Login Number: 121907 **List Source: TestAmerica Buffalo**
List Number: 1
Creator: Williams, Christopher S

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 480-116344-1
Client Project/Site: Metalico Wells Analysis

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

Attn: Matthew Strodel

Joseph V. Giacomazza

Authorized for release by:
4/28/2017 9:14:10 PM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
orlette.johnson@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Job ID: 480-116344-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-116344-1

Receipt
The sample was received on 4/15/2017 1:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC Semi VOA
Method(s) 8082A: The following sample was diluted due to an abundance of target analytes: MW-8R (480-116344-1). As such, surrogate recoveries are estimated and not representative, and elevated reporting limits (RLs) are provided.

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

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

Organic Prep
Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: MW-8R (480-116344-1). The reporting limits (RLs) have been adjusted proportionately.

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

Detection Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Client Sample ID: MW-8R

Lab Sample ID: 480-116344-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	30		25	13	ug/L	10		8082A	Total/NA
Arsenic	0.039		0.015	0.0056	mg/L	1		6010C	Total/NA
Lead	0.035		0.010	0.0030	mg/L	1		6010C	Total/NA
Arsenic, Dissolved	0.029		0.015	0.0056	mg/L	1		6010C	Dissolved
Lead, Dissolved	0.015		0.010	0.0030	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Client Sample ID: MW-8R
Date Collected: 04/14/17 14:20
Date Received: 04/15/17 01:00

Lab Sample ID: 480-116344-1
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		25	8.8	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1221	ND		25	8.8	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1232	ND		25	8.8	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1242	ND		25	8.8	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1248	ND		25	8.8	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1254	**30**		25	13	ug/L		04/18/17 08:00	04/19/17 01:07	10
PCB-1260	ND		25	13	ug/L		04/18/17 08:00	04/19/17 01:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*33*	*X*	*39 - 121*	*04/18/17 08:00*	*04/19/17 01:07*	*10*
DCB Decachlorobiphenyl	*12*	*X*	*19 - 120*	*04/18/17 08:00*	*04/19/17 01:07*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**		0.015	0.0056	mg/L		04/18/17 13:28	04/25/17 17:23	1
Lead	**0.035**		0.010	0.0030	mg/L		04/18/17 13:28	04/25/17 17:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.029**		0.015	0.0056	mg/L		04/18/17 09:28	04/27/17 15:14	1
Lead, Dissolved	**0.015**		0.010	0.0030	mg/L		04/18/17 09:28	04/27/17 15:14	1

Surrogate Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(39-121)	(19-120)								
480-116344-1	MW-8R	33 X	12 X								
LCS 480-352488/2-A	Lab Control Sample	77	38								
MB 480-352488/1-A	Method Blank	68	40								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-352488/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 352668 — **Prep Batch: 352488**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1221	ND		0.50	0.18	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1232	ND		0.50	0.18	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1242	ND		0.50	0.18	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1248	ND		0.50	0.18	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1254	ND		0.50	0.25	ug/L		04/18/17 08:00	04/18/17 19:02	1
PCB-1260	ND		0.50	0.25	ug/L		04/18/17 08:00	04/18/17 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*39 - 121*	*04/18/17 08:00*	*04/18/17 19:02*	*1*
DCB Decachlorobiphenyl	*40*		*19 - 120*	*04/18/17 08:00*	*04/18/17 19:02*	*1*

Lab Sample ID: LCS 480-352488/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 352668 — **Prep Batch: 352488**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.56		ug/L		89	62 - 130
PCB-1260	4.00	3.17		ug/L		79	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*39 - 121*
DCB Decachlorobiphenyl	*38*		*19 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-352605/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 354089 — **Prep Batch: 352605**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		04/18/17 13:28	04/25/17 15:53	1
Lead	ND		0.010	0.0030	mg/L		04/18/17 13:28	04/25/17 15:53	1

Lab Sample ID: LCS 480-352605/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 354089 — **Prep Batch: 352605**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.201		mg/L		101	80 - 120
Lead	0.200	0.199		mg/L		99	80 - 120

Lab Sample ID: MB 480-352479/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 354664 — **Prep Batch: 352479**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		04/18/17 09:28	04/27/17 13:46	1

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

Lab Sample ID: MB 480-352479/1-A
Matrix: Water
Analysis Batch: 354664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead, Dissolved	ND		0.010	0.0030	mg/L		04/18/17 09:28	04/27/17 13:46	1

Lab Sample ID: LCS 480-352479/2-A
Matrix: Water
Analysis Batch: 354664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 352479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic, Dissolved	0.200	0.198		mg/L		99	80 - 120
Lead, Dissolved	0.200	0.194		mg/L		97	80 - 120

QC Association Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

GC Semi VOA

Prep Batch: 352488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Total/NA	Water	3510C	
MB 480-352488/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-352488/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 352668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Total/NA	Water	8082A	352488
MB 480-352488/1-A	Method Blank	Total/NA	Water	8082A	352488
LCS 480-352488/2-A	Lab Control Sample	Total/NA	Water	8082A	352488

Metals

Prep Batch: 352479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Dissolved	Water	3005A	
MB 480-352479/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-352479/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 352605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Total/NA	Water	3005A	
MB 480-352605/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-352605/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 354089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Total/NA	Water	6010C	352605
MB 480-352605/1-A	Method Blank	Total/NA	Water	6010C	352605
LCS 480-352605/2-A	Lab Control Sample	Total/NA	Water	6010C	352605

Analysis Batch: 354664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116344-1	MW-8R	Dissolved	Water	6010C	352479
MB 480-352479/1-A	Method Blank	Total Recoverable	Water	6010C	352479
LCS 480-352479/2-A	Lab Control Sample	Total Recoverable	Water	6010C	352479

Lab Chronicle

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Client Sample ID: MW-8R
Date Collected: 04/14/17 14:20
Date Received: 04/15/17 01:00

Lab Sample ID: 480-116344-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			352488	04/18/17 08:00	CPH	TAL BUF
Total/NA	Analysis	8082A		10	352668	04/19/17 01:07	JMO	TAL BUF
Dissolved	Prep	3005A			352479	04/18/17 09:28	MVZ	TAL BUF
Dissolved	Analysis	6010C		1	354664	04/27/17 15:14	AMH	TAL BUF
Total/NA	Prep	3005A			352605	04/18/17 13:28	MVZ	TAL BUF
Total/NA	Analysis	6010C		1	354089	04/25/17 17:23	AMH	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Barton & Loguidice, D.P.C.
Project/Site: Metalico Wells Analysis

TestAmerica Job ID: 480-116344-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116344-1	MW-8R	Water	04/14/17 14:20	04/15/17 01:00

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matthew Strodel	Lab PM: Johnson, Orlette S	COC No: 480-96459-22995.1
Client Contact: Matthew Strodel	Phone: 315-457-5200	E-Mail: orlette.johnson@testamericainc.com	Page: Page 1 of 1
Company: Barton & Loguidice, D.P.C.		Analysis Requ — 480-116344 COC	Job #: 1206,002,007
Address: 443 Electronics Parkway	Due Date Requested: STD		
City: Liverpool	TAT Requested (days): STD		
State, Zip: NY, 13088			
Phone:	PO #: 39118		
Email: mstrodel@bartonandloguidice.com	WO #:		
Project Name: Metalico Wells Analysis	Project #: 48014531		
Site: Metalico - Syracuse	SSOW#:		

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs - OLM04.2	6010C - (MOD) Local Method	Total As	Dissolved As	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	D				
MW-8R	04/14/17	14:30	G	Water	Y	N	X	X	X			Bill to Metalico Syracuse

Rc 4-14-17

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4/14/17 14:45	B+L	[signature]	4/14/17 14:45	SVR
[signature]	4-14-17, 19:00	SJR	[signature]	4-15-17 0100	TAB

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

Login Sample Receipt Checklist

Client: Barton & Loguidice, D.P.C.

Job Number: 480-116344-1

Login Number: 116344

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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