# GROUNDWATER PERFORMANCE MONITORING REPORT

June 2018 Sampling

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

Prepared For:
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### 1.0 INTRODUCTION

This report presents the results of the June 2018 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 2018 annual monitoring event.

Barton & Loguidice, D.P.C. (B&L) collected samples from the eight (8) monitoring well locations that comprise the CAMU active monitoring network on June 30, 2017. All samples were submitted to ALS Environmental (ALS) in Rochester, New York for analysis.

### 2.0 CAMU GROUNDWATER PERFORMANCE MONITORING

# 2.1 Monitoring Well Inspection

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

B291	B281	B290	B401
B402R	B403	B404	MW-8R

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

- Monitoring well B280, formerly located north of the CAMU, was destroyed in September 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280.
- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Monitoring well B402R was installed in November 2005 and sampling began with the December 2005 sampling event. The destroyed well (B402) was properly decommissioned using a rotary drilling rig on April 24, 2007.
- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of scrap yard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program. The wellhead for monitoring well MW-8R was replaced on April 24, 2007 due to deterioration as the flush mounted well was set in a high traffic working area.
- On April 24, 2007 the area surrounding well B291 was cleared of vegetation, and the existing damaged flush-mounted well cover was removed and replaced with a stick-up-type protective casing installed in a concrete base. The wellhead was vertically surveyed relative to well B402R, with the new reference elevation being calculated at 410.86. A new, lockable well plug was installed in the well opening.
- o 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.
- o 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  $\pm 0.01$  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 June 2018 groundwater monitoring. Data are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:

<u>Parameter</u>	Class GA Standard
pН	6.5 – 8.5 Std. Units
Lead	0.025  mg/L
Arsenic	0.025 mg/L
Aroclor 1016	0.09 µg/L*
Aroclor 1221	0.09 µg/L*
Aroclor 1232	0.09 µg/L*
Aroclor 1242	0.09 µg/L*
Aroclor 1248	0.09 µg/L*
Aroclor 1254	0.09 µg/L*
Aroclor 1260	0.09 µg/L*
Aroclor 1262	$0.09 \mu\mathrm{g/L*}$
Aroclor 1268	$0.09~\mu g/L*$

Notes: \*Limit applies to sum of all Aroclors

The results of the June 2018 sampling event 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** – During the June 2018 monitoring event the NYSDEC Class GA groundwater standard for PCBs (0.09  $\mu$ g/L) was exceeded at MW-8R (35.0  $\mu$ g/L). Monitoring location MW-8R is a flush mounted surface well which recharges slowly, and is located in a high traffic working area of the facility 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 2018 monitoring event.

**Specific Conductivity** – Monitoring location MW-8R continued to exhibit elevated specific conductivity result during the June 2018 monitoring event (6700 µS/cm), although 2018 represents the lowest reported concentration since the June 2010 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 – During the June event monitoring location MW-8R exceeded the Class GA standards of 0.025 mg/L for total lead (0.280  $\mu$ g/L) and dissolved lead (0.190  $\mu$ g/L) the was exceeded at monitoring location MW-8R (0.280 mg/L). Total and dissolved lead have previously been detected within MW-8R as indicated in the historical data included in Table 3. B402R demonstrated total lead at a concentration (0.004  $\mu$ g/L) below the standards, and no dissolved lead was detected. The remaining monitoring locations did not exhibit any total or dissolved lead detections during the June 2018 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 (0.100 mg/L). Dissolved arsenic was detected within B290 (0.014 mg/L) at a concentration below the Class GA standard. Monitoring well B402R demonstrated detections of total arsenic (0.009 mg/L) and dissolved arsenic (0.008 mg/L) at concentrations below the Class GA standard. MW-8R demonstrated detections of total arsenic (0.057 mg/L) and dissolved arsenic (0.059 mg/L) in excess of Class GA standard. Total and dissolved arsenic have been detected at similar concentrations within MW-8R during each of the last five monitoring events taking place at MW-8R. Arsenic was not detected within any of the remaining monitoring wells during the 2018 sampling events.

# **Figures**

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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	Arsenic (Total and Dissolved)	EPA Method 6010	3 ug/L	B281
(June)	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

Page 1 of 2

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

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

Page 2 of 2

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

# Table 3 ROTH BROS. SMELTING CORP.

# **Corrective Action Management Unit (CAMU)**

# **Groundwater Performance Monitoring**

# **Historical Laboratory Analytical Summary Table (Monitoring Well 8R)**

		Total	Dissolved		Dissolved		Specific					Aroclors				
		Arsenic	Arsenic	Total Lead	Lead	рН	Conductivity	1016	1221	1232	1242	1248	1254	1260	1262	1268
l	Jnits	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 G	A 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
		·		ı	l I			I	- II	l	· L	· L	•	· L		
	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	-	-
8R	Jun-08	-	-	0.210	< 0.003	7.81	1459	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	6.40	< 0.05	-	-
OIX	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	-	-
	Jun-18	0.057	0.059	0.280	0.190	6.60	6700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	35.00	< 0.50	-	-

# Appendix A



arto	n		FIELD SAMPLING DATA SHEET					
	guidice							
Engineers • Environmental S	icientists • Planners • Lands	cape Architects						
SITE:	Metalico - Thompson Road		SAMPLE LOCATION:	B-281 (MS/MSD)				
CLIENT:	Metalico Aluminum		JOB #:		1206.002.007			
Weather Conditions:	OVERAST		Temperature:	27	シチ	<del></del>		
SAMPLE TYPE:	Groundwater		Surface Water	$\overline{\Box}$	Other (specify):			
Oniii EE 111 E.	Sediment		Leachate	H	Circi (aposity).			
WATER LEVEL DATA								
Static Water Level (feet)*	:		5.07		Measuring Point: To	on of Riser		
Measured Well Depth (fe			13.03		Measured by:			
Well Casing Diameter (in			2		Date: g	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Calculated Volume in We			1.11		Time:	13:05		
	n measuring point	<del> 1</del>				7.5 - 5		
•	<u> </u>							
PURGING METHOD  Equipment:	Bailer	×	Submersible Pump		Air Lift System			
Едартет.	Non-dedicated		•	H				
		음	Foot Valve		Peristaltic Pump			
	Dedicated		Bladder Pump					
	of Water To Be Purged (ga	1 4	_					
Actual Vo	lume of Water Purged (ga	allons): 2.50	<u> </u>					
	Did well purge dry?	No [	Yes		1/4 beckens			
	Did well recover?	No [	Yes	X	Recovery Time: O	vernight		
SAMPLING METHOD				•				
Equipment:	Bailer		Submersible Pump		Air Lift System			
	Non-dedicated	X	Foot Valve		Peristaltic Pump	×		
	Dedicated		Bladder Pump	$\overline{\Box}$				
Sampled by:	15	Time: 10.45	Date: Edis	3/18				
• • •								
SAMPLING DATA Sample Appearance	- /							
Color:	Clear		Sediment:	200				
Odor:	Now		_	41-2007-				
Field Measured Paramete	ers							
pH (Standard Units)	66		Sp. Conductivity (umhos	s/cm)	3300			
Temperature (F)	58.5		Eh-Redox Potential (mV					
Turbidity (NTUs)	79.5		Dissolved Oxygen (mg/l		- 1			
Samples Collected (Num	her/Tyne):							
Four bottles - T-Pb,As; D								
	. 0,10,1 000 (2)							
Samples Delivered to:	TAL		Time: \\SUS	Date:	06/3/8			
COMMENTS:								
Rev. 4/09 (MPS)								

#### **FIELD SAMPLING DATA SHEET** arton oguidice Engineers • Environmental Scientists • Planners • Landscape Architects Metalico - Thompson Road SAMPLE LOCATION: B-290 Metalico Aluminum Recovery, Inc. 1206.002.007 CLIENT: JOB #: Evencast Weather Conditions: Temperature: **SAMPLE TYPE:** Groundwater Surface Water Other (specify): Sediment Leachate **WATER LEVEL DATA** 5.22 Static Water Level (feet)\*: Measuring Point: Top of Riser 10.26 Measured by: HP5 Measured Well Depth (feet)\*: Well Casing Diameter (inches): Date: OCIA Calculated Volume in Well Casing (gallons): Time: 🔀 depth from measuring point **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): 3,43 Actual Volume of Water Purged (gallons): 1.25 V 2/4 balong Did well purge dry? No Yes Recovery Time: Did well recover? No Yes SAMPLING METHOD Equipment: Bailer Submersible Pump Air Lift System Non-dedicated Foot Valve Peristaltic Pump Dedicated Bladder Pump Sampled by: \_ 1975 Time: /// よる Date: 06/13/18 SAMPLING DATA Sample Appearance Grange Wine 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:

COMMENTS:

Rev. 4/09 (MPS)

allu			I ILLO OA	<b>L</b> II'	IG DATA STILL	
8-0	guidice					
Engineers • Environmental :	Scientists • Planners • Landscape /	Architects				
SITE:	Metalico - Thompson	Road	SAMPLE LOCATION:		B-403	
CLIENT:	Metalico Aluminum Recovery, Inc.		JOB #:		1206.002.007	
Weather Conditions:	Overcast		Temperature:		アジト	
SAMPLE TYPE:	Groundwater	х	Surface Water		Other (specify):	
	Sediment		Leachate			
WATER LEVEL DATA						
WATER LEVEL DATA Static Water Level (feet)*:		<b>3</b> .	16		Measuring Point:	Top of Riser
Measured Well Depth (fee			1.26		Measured by:	
Well Casing Diameter (inc			2			06/12/18
Calculated Volume in We		10	28		Time:	13:50
*depth from	n measuring point					
PURGING METHOD				_		
Equipment:	Bailer	X	Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	
	Dedicated	Ħ	Bladder Pump	Ħ		
Coloulated Volume O	f Motor To Po Purgod (collops)	. 2 4//	·			
	f Water To Be Purged (gallons)	7.50	5			
Actual Vo	lume of Water Purged (gallons)		Í		1 (1 1 - Leas	
	Did well purge dry?	No _	Yes	<u> </u>	1/4 besters	_ \\ \
	Did well recover?	No _	Yes	KI	Recovery Time:	Deany let
SAMPLING METHOD				•		
Equipment:	Bailer		Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	X
	Dedicated	$\sqcap$	Bladder Pump	$\sqcap$		_
Sampled by:	Time	1.40	Date: Olas	2/15		
52.15		11.10	Date	110		
SAMPLING DATA						
Sample Appearance Color:	Clean		Sediment:	tone		
Odor:	Clean New	8		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>,                                      </u>	
Field Measured Paramete	275		_			
pH (Standard Units)	7/		Sp. Conductivity (umhos	s/cm)	910	
Temperature (F)	58.8		Eh-Redox Potential (mV			
Turbidity (NTUs)			Dissolved Oxygen (mg/l	L)		
Samples Collected (Numi	ber/Type):					
Four bottles - T-Pb,As; D-	Pb,As; PCBs (2)					
Samples Delivered to:	TAL		Time: 1525	_ Date:	06/13/18	
COMMENTS:						
	<u></u>					
-						
Rev. 4/09 (MPS)	<del></del>					
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art	FIELD SAMPLING DATA SHEET					
& 0	guidice					
Engineers • Environmental	Scientists • Planners • Landscap	e Architects				
SITE:	SAMPLE LOCATION: JOB #:		B-401			
CLIENT: Weather Conditions:		Metalico Aluminum Recovery, Inc.			1206.002.007	
	- Ovacas		Temperature:		75°F	
SAMPLE TYPE:	Groundwater	X	Surface Water		Other (specify):	
	Sediment		Leachate			
WATER LEVEL DATA						<u> </u>
Static Water Level (feet)*			<i>Q.</i> 7		Measuring Point: Top of	
Measured Well Depth (fe Well Casing Diameter (in		,	11.34		Measured by:	7 7 -
Calculated Volume in We		0	65		Date: <u><i>公</i>ん</u> // Time: / 火	14
	m measuring point					
PURGING METHOD						
Equipment:	Bailer	X	Submersible Pump		Air Lift System	
	Non-dedicated	X	Foot Valve		Peristaltic Pump	
	Dedicated		Bladder Pump			
Calculated Volume C	of Water To Be Purged (gallo	ns): 1.95	5			
	lume of Water Purged (gallo	63.6	0			
	Did well purge dry?	No [	_     Yes	ΠZ		
	Did well recover?	No [	Yes		Recovery Time: Overni	iaht
			100	<u>त्रीत</u>	Ticoovery Time. Overni	igin
SAMPLING METHOD  Equipment:	Bailer		Colorada interpreta		A:-1:16 O1	
Ечартет.			Submersible Pump	$\vdash$	Air Lift System	
	Non-dedicated	띔	Foot Valve	닖	Peristaltic Pump	IX.
	Dedicated		Bladder Pump	Ц.		
Sampled by:	<u> </u>	me: <u>/2://</u>	Date: <u></u>	3/18		
SAMPLING DATA						
Sample Appearance Color:	1 km		Sediment: 100			
Odor:	None		_Sediment:	402		
Field Measured Paramete						
pH (Standard Units)	(4, 5)	<u> </u>	Sp. Conductivity (umhos	s/cm)	1190	
Temperature (F)	59.8		Eh-Redox Potential (m\		- 77	
Turbidity (NTUs)	-		Dissolved Oxygen (mg/l	L)	•	
Samples Collected (Num	ber/Type):	. 06.	166			
4 bolt les	1411 /15	T-10 , 1				
Samples Delivered to:	TAL h kiling 15:		Time: 1535	Date:	06/3/8	
COMMENTS:	11 / /	5/ 1				
15548 Wil	4 Rieny 1550	Had in	seduren in 7	ofal.	enetal Jane	20
<del></del>	<i>V</i>			_		
Flev. 4/09 (MPS)	<del></del>					

art	pn	FIELD SA	FIELD SAMPLING DATA SHEET					
	guidice							
Engineers • Environmental	Scientists • Planners • Landsc	ape Architects						
SITE:	Metalico - Thomp		SAMPLE LOCATION:		B-291			
CLIENT:	Metalico Aluminum F		JOB #:		1206.002.007	<del> </del>		
Weather Conditions:	Expreasi		Temperature:		75°F	<del></del>		
SAMPLE TYPE:	Groundwater	X	Surface Water		Other (specify):			
	Sediment		Leachate					
WATER LEVEL DATA			· <del></del>	_		-		
Static Water Level (feet)			36		Measuring Point: To			
Measured Well Depth (fe	<del></del>		12.54		Measured by:	7 (		
Well Casing Diameter (in Calculated Volume in We	cnes): ell Casino (gallogs):	<del>-</del>  - 0	2		<u>کے</u> Time:	11 33		
	n measuring point		<u></u>		- IIIIe	7.27		
PURGING METHOD	<b>.</b>							
Equipment:	Bailer	X	Submersible Pump		Air Lift System			
	Non-dedicated	<u> </u>	Foot Valve	一	Peristaltic Pump	$\overline{\sqcap}$		
	Dedicated	H	Bladder Pump	Ħ	·			
		100s): 2,20	•					
Calculated Volume C	of Water To Be Purged (gal	ions):	<del>/</del>					
Actual Vo	lume of Water Purged (gal	lons):/, 52	<u>/</u>					
	Did well purge dry?	No [	Yes	$\square$				
	Did well recover?	No [	Yes	<u> </u>	Recovery Time: O	vernight		
SAMPLING METHOD								
Equipment:	Bailer		Submersible Pump		Air Lift System			
<b>– 4/</b>	Non-dedicated		Foot Valve	H	•			
		씀		$\vdash$	Peristaltic Pump	Χ		
8.4.4	Dedicated		Bladder Pump	با				
Sampled by:	<u>5</u>	Time: <u>/シリイラ</u>	Date: <u>06//</u>	3/18				
SAMPLING DATA								
Sample Appearance Color: Clear			<b>5</b> 0 - A	41 /	<i>C</i> .			
Color: Clear Odor: None			Sediment: None	Mack	THES'			
			_					
Field Measured Paramete pH (Standard Units)			Co. Conductivity (contra	· ()				
Temperature (F)	58.7		Sp. Conductivity (umhos Eh-Redox Potential (mV		990			
Turbidity (NTUs)	7 2 7		Dissolved Oxygen (mg/l		-			
				•				
Samples Collected (Num	her/Tyne):							
Four bottles - T-Pb,As; D	• • •							
	<u> </u>							
Samples Delivered to:	TAL		Time: 15-25	Date:	06/13/18			
COMMENTS:								
Rev. 4/09 (MPS)	<u> </u>			_	<del></del> .			

#### **FIELD SAMPLING DATA SHEET** arton oguidice Engineers • Environmental Scientists • Planners • Landscape Architects SITE: Metalico - Thompson Road SAMPLE LOCATION: B-404 **CLIENT:** Metalico Aluminum Recovery, Inc. JOB #: 1206.002.007 Kon 75°F Weather Conditions: Temperature: **SAMPLE TYPE:** Groundwater X Surface Water Other (specify): Sediment Leachate **WATER LEVEL DATA** Static Water Level (feet)\*: 5787 Measuring Point: Top of Riser Measured Well Depth (feet)\*: Measured by: 16.14 Well Casing Diameter (inches): 2 Date: 06 Calculated Volume in Well Casing (gallons): Time: \*depth from measuring point **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 Recovery Time: Over Yes SAMPLING METHOD Equipment: Bailer Submersible Pump Air Lift System Non-dedicated Foot Valve Peristaltic Pump Dedicated Bladder Pump Time: 13:27 Date: 26/13/18 Sampled by: M115 **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) Time: 1525 Date: 06/3/18 Samples Delivered to: COMMENTS:

Rev. 4/09 (MPS)



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	guidice									
Engineers • Environmental	Scientists • Planners • Landscap	e Architects								
SITE:	Metalico - Thompso		SAMPLE LOCATION:		B-402R					
CLIENT:	Metalico Aluminum Re		JOB #:		1206.002.007					
Weather Conditions:	Dierost		Temperature:		75°F					
SAMPLE TYPE:	Groundwater	х	Surface Water		Other (specify):					
	Sediment		Leachate							
WATER LEVEL DATA										
Static Water Level (feet)	••		32		Measuring Point: Top o	f Riser				
Measured Well Depth (fe	eet)*:		12.24		Measured by:	1P5,				
Well Casing Diameter (in			2		Date: 26	(13/18 <u> </u>				
Calculated Volume in We		/-	43		Time:5	.U				
*depth froi	n measuring point									
<b>PURGING METHOD</b>			_			,				
Equipment:	Bailer	X	Submersible Pump	Ш	Air Lift System					
	Non-dedicated	X	Foot Valve		Peristaltic Pump					
	Dedicated		Bladder Pump			-				
Calculated Volume O	f Water To Be Purged (gallor	15): 4.29	<b>;</b>	_						
	lume of Water Purged (gallor	0.0	_							
	Did well purge dry?	No [	Yes		40	414.50				
	Did well recover?	No [	Yes	Ž	Recovery Time: Ou	engal Sel				
CAMPING				,						
SAMPLING METHOD  Equipment:	Bailer		Submersible Pump		Air Lift System					
	Non-dedicated		Foot Valve		Peristaltic Pump	×				
					i ensianic rump	ك				
	Dedicated		Bladder Pump							
Sampled by: My	<u>5</u> ті	те: <u>13.'5</u> С	Date: <u>UE//</u>	3/18						
SAMPLING DATA										
Sample Appearance	11-				1 - 4					
Color:	Clean		Sediment:	e - 7	an root prese	5				
Odor:	None		_							
Field Measured Paramet	ers									
pH (Standard Units)	7.7		Sp. Conductivity (umho		7.7					
Temperature (F) Turbidity (NTUs)	64.4		Eh-Redox Potential (m) Dissolved Oxygen (mg/		***					
randially (NTUS)	1 ~		בייססטיעפט Oxygen (mg/	-1	· ·					
Samples Collected (Num										
Four bottles - T-Pb,As; D	-ru,AS; FCBS (2)				<u> </u>	<u></u>				
Samalas Delivered to	501		Time: /CIE	Date:	06/13/18					
Samples Delivered to:			Time: \5 25		<u> </u>					
COMMENTS:										
-										
Rev. 4/09 (MPS)										



arte	pn	FIELD SAMPLING DATA SHEET						
&z 0	guidice							
Engineers • Environmental	Scientists • Planners • Landscape A	Architects						
SITE:	Metalico - Thompson		SAMPLE LOCATION:		MW-8R / Dupe-X			
CLIENT:	Metalico Aluminum Reco	very, Inc.	JOB #:		1206.002.007			
Weather Conditions:	Orthogst		Temperature:		750F			
SAMPLE TYPE:	Groundwater	[X]	Surface Water		Other (specify):			
	Sediment		Leachate					
WATER LEVEL DATA								
Static Water Level (feet)	•		3,62		Measuring Point: T	op of Riser		
Measured Well Depth (fe		1	0.00		Measured by:	UPS		
Well Casing Diameter (in			2			06/13/18		
Calculated Volume in We *depth from	m measuring point		103		Time: _	15: 4 <u>3</u>		
PURGING METHOD								
Equipment:	Bailer	X	Submersible Pump		Air Lift System			
	Non-dedicated	X	Foot Valve		Peristaltic Pump			
	Dedicated		Bladder Pump		•			
Calculated Volume C	of Water To Be Purged (gallons)	: 3.06						
Actual Vo	lume of Water Purged (gallons)	3.25	_					
	Did well purge dry?	No [	− T Yes	ᇡ		-		
	Did well recover?	No [	Yes		Recovery Time:	merme Pel		
	273 11011 10001011			الحلا	Theodorety Time: =	- ng ren		
SAMPLING METHOD								
Equipment:	Bailer	Ш	Submersible Pump		Air Lift System			
	Non-dedicated	X	Foot Valve		Peristaltic Pump	X		
	Dedicated		Bladder Pump					
Sampled by:	7 <u>5</u> Time	 :_ 14.23	Date: 06/	13/18				
SAMPLING DATA								
Sample Appearance								
Color:	vaite .		_Sediment:	lone				
Odor: <u>Strang</u>	Chemial		_					
() Field Measured Paramet	ers							
pH (Standard Units)	6,6		Sp. Conductivity (umhos	s/cm)	6700			
Temperature (F)	64.3		Eh-Redox Potential (mV		-			
Turbidity (NTUs)	_		Dissolved Oxygen (mg/l	L)	• "			
	· · -					<del></del>		
Samples Collected (Num	ber/Type):							
•	)-Pb,As; PCBs (2) + Dupe-X							
Samples Delivered to:	TAL		Time: <u>/5</u> -25	_ Date:	06/13/18			
COMMENTS:	<del>.</del>							
	<del></del>							
Rev. 4/09 (MPS)						<del></del>		



Engineers • Environmental Scientists • Planners • Landscape Architects

# Calibration Record

Project No:	1206.002.007		Date:	06/	13/18
Calibrated By:	MPS		Time:	101	5
pH Instrument Model: pH 1	Festr 10				
Standard Solution		on Reading	Acceptable Rar	<u>ige</u>	
pH 4:	4	90	(+/- 1.0 pH, pH 3.0		Pass / Fail
pH 7:	<u> </u>	<u>20</u>	(+/- 1.5 pH, pH 5.5		
pH 10:	[ /C	7,0	(+/- 1,0 pH, ph 9,0	- 11.0)	
Sp.Conductivity Instrument Model: EC Test	tr 11				
Standard Solution		on Reading	Acceptable Ran	<u>iqe</u>	
1413 uS	14	20	(+/- 1.0 % Error = 139		Pass /Fail
ORP Instrument Model: OF	RP Testr 10				
Standard Solution	<u>Calibration</u>	on Reading	Acceptable Ran	ge	
240 mV			(+/- 5% at 25°C, 209 -	231 mV)	Pass / Fail
or	24	-			
YSI Zobell Soln	<del>/</del>		(Refer to YSI calibrati	on table)	
Turbidimeter Model: LaMo	tte 2020we				
Standard Solution	Calibratio	on Reading	Acceptable Ran	ge	
0.0	В	lank	Blank 0.0 NTU	J	Pass / Fail
1.0	-/		(0.5-1.5 NTU)	1	
10.0	<u>/_</u>		(8-12 NTU)		
Dissolve Oxygen Meter Mo	odel: YSI EcoSense				
Saturated Air	Air Pressure (MB) Calibration	on_Reading	Acceptable Ran	<u>ge</u>	
100%			(+/- 5.0% Error, 95-	105%)	Pass / Fail
Comments:					
	S 90		_8_V		

#### arton FIELD SAMPLING DATA SHEET oguidice Engineers · Environmental Scientists · Planners · Landscape Architects Metalico - Thompson Road SAMPLE LOCATION: Equipment Blank CLIENT: Metalico Aluminum Recovery, Inc. JOB #: 1206.002.007 Weather Conditions: Temperature: DIGKAST **SAMPLE TYPE:** Groundwater Surface Water Other (specify): Sediment Leachate **WATER LEVEL DATA** Static Water Level (feet)\*: Measuring Point: Measured Well Depth (feet)\*: Measured by: Well Casing Diameter (inches): Date: Calculated Volume in Well Casing (gallons): Time: \*depth from measuring point **PURGING METHOD** Submersible Pump Equipment: Bailer 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 Foot Valve Peristaltic Pump Dedicated Bladder Pump Sampled by: MP5 Time: 10:34 Date: **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) Time: 15.25 Date: 26/3/18 Samples Delivered to: COMMENTS:

Rev. 4/09 (MPS)

# Chain of Custody Record

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

TestAmerica Buffalo

10 Hazelwood Drive

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7	11	-
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~/	11	-
4	13	=
AL J	11	
, w	13	-
_	21	-
5	-	

M - Hexane
N - None
O - ArnO22
P - Na204S
Q - Na25C3
S - Na25C3
S - Na25C4
T - TSP Dodecahydrate
V - MCAA
W - PH 4:5
Z - other (specify) 100 (2) CON Special Instructions/Note: Months Company Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
Return To Client Archive For Mon COC No: 480-113998-22995.1 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NanSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page 1 of 2 I - Ice J - Di Water K - EDTA L - EDA Total Number of containers Date/Time: Method of Shipment Carrier Tracking No(s) **Analysis Requested** Cooler Temperature(s) °C and Other Remarks. Special Instructions/QC Requirements. Lab PM Johnson, Orlette S E-Mait orlette johnson@lestamericainc com × dq ,eA bevlossiQ - 2010a Received by: うろ 又 3082A - TCL PCBs - OLMO4.2 Perform MSIMSD (Yes or No) Time Field Fittered Sample (Yes or No) G=grab) | et-Tissue, A-Au Preservation Code: (Winnestor, Brackle, Orwestaloll, Water Matrix Water Company Сотралу Radiological (C=Comp, G=grab) Sample Type 100,000,000 Ö sample and their SU. 51 3/5-457500 Sample Time Due Date Requested: Unknown Date: TAT Requested (days): Sample Date C/1/1/2 Project #: 48014531 SSOW#: Dato/Time PO#: Poison B Skin Imtant Deliverable Requested 1, II, III, IV, Other (specify) Custody Seal No.: Possible Hazard Identification mstrodel@bartonandloguidice.com Barton & Loguidice, D.P.C. Empty Kit Relinquished by: 443 Electronics Parkway Custody Seals Intact: Client Information Project Name: Metalico Wells Analysis Sample Identification 315-744-3850(Tel) Equipment Blank Matthew Strodel B-281 (MSD) elinquished by: **Lient Contact** State, Zip: NY, 13088 B-281 (MS) .iverpool MW-8R B-402R B-290 B-291 B-401 8-403 8404 B-281

Ver 08/04/2016

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

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Cleat Contact	" with Madal		(elas fillean)	200 Ng 480-113998-22995 2
Matthew Strodel	35. 25.4 508	E-Mail:		Page:
Company:		oregion ison (grestamencalno com		Page 2 of 2
Barton & Loguidice, D.P.C.		Analysis Requested		SCENOTE SCHOOL
443 Electronics Parkway	Due Dato Requested:			Preservation Codes:
City:	TAT Requested (days):			
State, Zip. NY 13088	7			C - Zn Acetale O - AshaO2 D - Niffic Acid D - NanAc
Phone	1			
315-744-3850(Tel)	39118			
Email mstrodel@bartonandloguidice.com	WOW / Jen / Jen / Jen / WOW	No.		
Project Name.		жИс		J-Ci Water V-MCAA K-EDTA W-pH-4-5
Site	48014531	0W		L - EDA Z - other (specify)
	SSOWA	Y) ds	uos j	Other:
	Samoio	red S IS/MS	0 180	
	Type	Filte M mm 10T •	land	
Sample Identification	Sample Date Time General Sample	ohe Asso	/ Isto	
	X	9 2	1	Special instructions/Note:
Dupe-X	(			
	CALLY CAMPAGE	TXXX		
		Control Officer		
Non-Hazard Flammable Skin Imlant Poison B	son B Unknown	Sample Disposal ( A ree may be assessed if samples are retained longer than 1 month)	essed if samples are retained	flonger than 1 month)
i, III, IV, Other (specify)		Special Instructions/QC Requirements	posei by Leb	e r or
Empty Kit Relinquished by:	Date		. F	
Relingual De	Jaie.	- Julie	Method of Shipment,	
Relinquished by:	18 15:25	Kaceingy, -26/11 L	Date/Time:	Company
Deli	Late/Time: Company	Received by:	Date/Time:	Company
Seindraue by:	Date/Time: Company	Received by:	Date/Time	Company
Custody Seals Intact: Custody Seal No.:				
Δ Yes Δ No		Cooler I emperature(s) "C and Oliver Remarks.	rks	
				Ver 08/04/2016

# Appendix B



THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

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

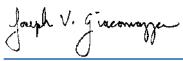
TestAmerica Job ID: 480-137414-1

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: 6/28/2018 12:13:19 PM

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

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

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# **Definitions/Glossary**

Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

# **Qualifiers**

# GC Semi VOA

Qualifier	Qualifier Description

X Surrogate is outside control limits

**Metals** 

Qualifier **Qualifier Description** 

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

# **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

PQL

NC

ND

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

Practical Quantitation Limit

QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

Not Calculated

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

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# **Case Narrative**

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

TestAmerica Job ID: 480-137414-1

Job ID: 480-137414-1

Laboratory: TestAmerica Buffalo

**Narrative** 

Job Narrative 480-137414-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/14/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.4° C.

#### GC Semi VOA

Method(s) 8082A: The following samples were diluted due to the nature of the sample matrix: MW-8R (480-137414-8) and DUPE-X (480-137414-10). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: Surrogate recovery for the following samples were outside control limits: B-402R (480-137414-5), MW-8R (480-137414-8) and DUPE-X (480-137414-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### Metals

Method(s) 3005A: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8R (480-137414-8) and DUPE-X (480-137414-10). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3005A: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8R (480-137414-8) and DUPE-X (480-137414-10). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 6010C: The following samples were diluted due to the presence of Total Sulfur which interferes with Lead: B-281 (480-137414-1), B-281 (MS) (480-137414-1[MS]), B-281 (MSD) (480-137414-1[MSD]) and B-290 (480-137414-2). 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.

### **Organic Prep**

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-8R (480-137414-8) and DUPE-X (480-137414-10). 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.

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TestAmerica Job ID: 480-137414-1

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

Client Sample ID: B-281

Lab Sample ID: 480-137414-1

No Detections.

Client Sample ID: B-290 Lab Sample ID: 480-137414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Arsenic	0.10		0.015	0.0056	mg/L	1	_	6010C	Total/NA	
Arsenic, Dissolved	0.014	J	0.015	0.0056	mg/L	1		6010C	Dissolved	

Client Sample ID: B-291 Lab Sample ID: 480-137414-3

No Detections.

Client Sample ID: B-401 Lab Sample ID: 480-137414-4

No Detections.

Client Sample ID: B-402R Lab Sample ID: 480-137414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0090	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Lead	0.0037	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Arsenic, Dissolved	0.0082	J	0.015	0.0056	mg/L	1		6010C	Dissolved

Client Sample ID: B-403 Lab Sample ID: 480-137414-6

No Detections.

Client Sample ID: B-404 Lab Sample ID: 480-137414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0043	J	0.010	0.0030	mg/L		_	6010C	Total/NA

Client Sample ID: MW-8R Lab Sample ID: 480-137414-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	35		5.0	2.5	ug/L	10	_	8082A	Total/NA
Arsenic	0.057		0.030	0.011	mg/L	1		6010C	Total/NA
Lead	0.28		0.020	0.0060	mg/L	1		6010C	Total/NA
Arsenic, Dissolved	0.059		0.030	0.011	mg/L	1		6010C	Dissolved
Lead, Dissolved	0.19		0.020	0.0060	mg/L	1		6010C	Dissolved

Client Sample ID: EQUIPMENT BLANK Lab Sample ID: 480-137414-9

No Detections.

**Client Sample ID: DUPE-X** Lab Sample ID: 480-137414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	33		5.0	2.5	ug/L		_	8082A	Total/NA
Arsenic	0.056		0.030	0.011	mg/L	1		6010C	Total/NA
Lead	0.28		0.020	0.0060	mg/L	1		6010C	Total/NA
Arsenic, Dissolved	0.039		0.030	0.011	mg/L	1		6010C	Dissolved
Lead, Dissolved	0.13		0.020	0.0060	ma/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

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Client: Barton & Loguidice, D.P.C. TestAmerica Job ID: 480-137414-1 Project/Site: Metalico Wells Analysis

Client Sample ID: B-281 Lab Sample ID: 480-137414-1

Date Collected: 06/13/18 00:00 Matrix: Water

Date Received: 06/14/18 01:00

Analyte	Result Qu	ualifier R	L MI	L Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND ND	0.5	0.	18 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1221	ND	0.5	0 0.	18 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1232	ND	0.5	0 0.	18 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1242	ND	0.5	0 0.	18 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1248	ND	0.5	0 0.	18 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1254	ND	0.5	0 0.	25 ug/L		06/20/18 14:25	06/21/18 16:51	1
PCB-1260	ND	0.5	0 0.	25 ug/L		06/20/18 14:25	06/21/18 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		39 - 121	06/20/18 14:25	06/21/18 16:51	1
DCB Decachlorobiphenyl	47		19 - 120	06/20/18 14:25	06/21/18 16:51	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 17:53	1
Lead	ND		0.10	0.030	mg/L		06/15/18 09:07	06/20/18 13:23	10

Method: 6010C - Metals (ICP) - Diss	solved							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND	0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 00:28	1
Lead, Dissolved	ND	0.050	0.015	mg/L		06/15/18 09:08	06/21/18 12:31	5

Client Sample ID: B-290 Lab Sample ID: 480-137414-2 Date Collected: 06/13/18 00:00 **Matrix: Water** 

Date Received: 06/14/18 01:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 17:07	1
PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		39 - 121				06/20/18 14:25	06/21/18 17:07	1
DCB Decachlorobiphenyl	38		19 - 120				06/20/18 14:25	06/21/18 17:07	1
Method: 6010C - Metals (ICP)	)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10	-	0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:16	1
Lead	ND		0.050	0.015	mg/L		06/15/18 09:07	06/20/18 13:34	5
- Method: 6010C - Metals (ICP)	) - Dissolved								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.014	J	0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 00:58	1
Lead, Dissolved	ND		0.050	0.015	ma/L		06/15/18 09:08	06/21/18 12:49	5

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6/28/2018

# **Client Sample Results**

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

Client Sample ID: B-291 Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

TestAmerica Job ID: 480-137414-1

Lab Sample ID: 480-137414-3

Matrix: Water

Method: 8082A - Polychlorinated I	Biphenyls (P0	CBs) by Gas	Chromatography	/
Analyte	Result	Qualifier	RL	ı
				_

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 17:55	1
PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		39 - 121	06/20/18 14:25	06/21/18 17:55	1
DCB Decachlorobiphenyl	40		19 - 120	06/20/18 14:25	06/21/18 17:55	1

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:19	1
Load	ND		0.010	0.0030	ma/l		06/15/19 00:07	06/10/19 19:10	1

Method: 6010C - Metals (ICP) - Diss	solved							
Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND	0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 01:02	1
Lead, Dissolved	ND	0.010	0.0030	mg/L		06/15/18 09:08	06/21/18 01:02	1

Client Sample ID: B-401 Lab Sample ID: 480-137414-4

Date Received: 06/14/18 01:00

Date Collected: 06/13/18 00:00 Matrix: Water

Method: 8082A - F	Polychlorinated Biphenyls (PCBs) by Gas	Chromatography
Analyte	Result Qualifier	RL I

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:10	1
PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		39 - 121	06/20/18 14:25	06/21/18 18:10	1
DCB Decachlorobiphenyl	19		19 - 120	06/20/18 14:25	06/21/18 18:10	1

# Method: 6010C - Metals (ICP)

Metriod. 00100 - Metais (101)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:23	1
Lead	ND		0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 18:23	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		06/15/18 09:08	06/21/18 01:06	1
Lead, Dissolved	ND		0.010	0.0030	mg/L		06/15/18 09:08	06/21/18 01:06	1

TestAmerica Buffalo

# **Client Sample Results**

Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

Lab Sample ID: 480-137414-5

Matrix: Water

Client Sample ID: B-402R

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:26	1
PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	124	X	39 - 121				06/20/18 14:25	06/21/18 18:26	1
DCB Decachlorobiphenyl	31		19 - 120				06/20/18 14:25	06/21/18 18:26	1
Method: 6010C - Metals (ICP	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0090	J	0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:27	1
Lead	0.0037	J	0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 18:27	1
Method: 6010C - Metals (ICP	) - Dissolved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0082	J	0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 01:09	1
Lead, Dissolved	ND		0.010	0.0030	ma/L		06/15/18 09:08	06/21/18 01:09	1

Client Sample ID: B-403 Lab Sample ID: 480-137414-6

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00

ated Biphenyls (PCBs) by Gas	Chromatograp	hy					
Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ND ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:42	1
ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:42	1
ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:42	1
	Result Qualifier  ND  ND	Result         Qualifier         RL           ND         0.50           ND         0.50	ND 0.50 0.18 ND 0.50 0.18	Result         Qualifier         RL         MDL         Unit           ND         0.50         0.18         ug/L           ND         0.50         0.18         ug/L	Result         Qualifier         RL         MDL         Unit         D           ND         0.50         0.18         ug/L           ND         0.50         0.18         ug/L	Result         Qualifier         RL         MDL upit         D         Prepared           ND         0.50         0.18         ug/L         06/20/18 14:25           ND         0.50         0.18         ug/L         06/20/18 14:25	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           ND         0.50         0.18         ug/L         06/20/18 14:25         06/21/18 18:42           ND         0.50         0.18         ug/L         06/20/18 14:25         06/21/18 18:42

ı	PCB-1242	ND	0.50	0.18 ug/L	06/20/18 14:25	06/21/18 18:42
	PCB-1248	ND	0.50	0.18 ug/L	06/20/18 14:25	06/21/18 18:42
	PCB-1254	ND	0.50	0.25 ug/L	06/20/18 14:25	06/21/18 18:42
١	PCB-1260	ND	0.50	0.25 ug/L	06/20/18 14:25	06/21/18 18:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		39 - 121	06/20/18 14:25	06/21/18 18:42	1
DCB Decachlorobiphenyl	32		19 - 120	06/20/18 14:25	06/21/18 18:42	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:31	1
Lead	ND		0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 18:31	1

Method: 6010C - Metals (ICP) - Diss								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND	0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 01:13	1
Lead, Dissolved	ND	0.010	0.0030	mg/L		06/15/18 09:08	06/21/18 01:13	1

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Matrix: Water

# **Client Sample Results**

Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

Lab Sample ID: 480-137414-7

Matrix: Water

Client Sample ID: B-404 Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:58	1
PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		39 - 121				06/20/18 14:25	06/21/18 18:58	1
DCB Decachlorobiphenyl	27		19 - 120				06/20/18 14:25	06/21/18 18:58	1
Method: 6010C - Metals (ICP	)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:34	1
Lead	0.0043	J	0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 18:34	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		06/15/18 09:08	06/21/18 01:17	1
Lead, Dissolved	ND		0.010	0.0030	ma/l		06/15/18 09:08	06/21/18 01:17	1

Lab Sample ID: 480-137414-8 Client Sample ID: MW-8R

Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

Method: 8082A - Polychlorinate		Qualifier	_	MDL	l lmi4		Duamanad	A made mad	Dil Fac
Analyte		Qualifier	RL			D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.0		ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1221	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1232	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1242	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1248	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1254	35		5.0	2.5	ug/L		06/20/18 14:25	06/21/18 19:14	10
PCB-1260	ND		5.0	2.5	ug/L		06/20/18 14:25	06/21/18 19:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	9	X	39 - 121				06/20/18 14:25	06/21/18 19:14	10
DCB Decachlorobiphenyl	65		19 - 120				06/20/18 14:25	06/21/18 19:14	10
Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057	-	0.030	0.011	mg/L		06/15/18 09:07	06/19/18 18:41	1
Lead	0.28		0.020	0.0060	mg/L		06/15/18 09:07	06/19/18 18:41	1
Method: 6010C - Metals (ICP) -	Dissolved								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.059		0.030	0.011	mg/L		06/15/18 09:08	06/21/18 01:42	1
Lead, Dissolved	0.19		0.020	0.0060			06/15/18 09:08	06/21/18 01:42	1

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Matrix: Water

Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

06/20/18 14:25 06/21/18 19:30

Lab Sample ID: 480-137414-9

Matrix: Water

**Client Sample ID: EQUIPMENT BLANK** 

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00

Method: 8082A - Polychlor	inated Biphenyls (PCBs) by G	as Chromatogra	phy					
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1221	ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1232	ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1242	ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1248	ND	0.50	0.18	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1254	ND	0.50	0.25	ug/L		06/20/18 14:25	06/21/18 19:30	1
PCB-1260	ND	0.50	0.25	ug/L		06/20/18 14:25	06/21/18 19:30	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72	39 - 121				06/20/18 14:25	06/21/18 19:30	1

Method: 6010C - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	<u> </u>	0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 18:38	1
Lead	ND		0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 18:38	1

19 - 120

31

Method: 6010C - Metals (ICP) - Diss	solved								
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		06/15/18 09:08	06/21/18 01:20	1
Lead, Dissolved	ND		0.010	0.0030	mg/L		06/15/18 09:08	06/21/18 01:20	1

CI

DCB Decachlorobiphenyl

Da Date Received: 06/14/18 01:00

Client Sample ID: DUPE-X	Lab Sample ID: 480-137414-10
Date Collected: 06/13/18 00:00	Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1221	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1232	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1242	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1248	ND		5.0	1.8	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1254	33		5.0	2.5	ug/L		06/20/18 14:25	06/21/18 19:46	10
PCB-1260	ND		5.0	2.5	ug/L		06/20/18 14:25	06/21/18 19:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	9	X	39 - 121				06/20/18 14:25	06/21/18 19:46	10
DCB Decachlorobiphenyl	0	X	19 - 120				06/20/18 14:25	06/21/18 19:46	10
- Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.030	0.011	mg/L		06/15/18 09:07	06/19/18 18:56	1
Lead	0.28		0.020	0.0060	mg/L		06/15/18 09:07	06/19/18 18:56	1
Method: 6010C - Metals (ICP)	- Dissolved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.039		0.030	0.011	mg/L		06/15/18 09:08	06/21/18 01:46	1
Lead, Dissolved	0.13		0.020	0.0060	mg/L		06/15/18 09:08	06/21/18 01:46	1

# **Surrogate Summary**

Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		TCX1	DCBP1	
Lab Sample ID	Client Sample ID	(39-121)	(19-120)	
180-137414-1	B-281	81	47	
180-137414-1 MS	B-281 (MS)	77	45	
180-137414-1 MSD	B-281 (MSD)	77	41	
180-137414-2	B-290	75	38	
180-137414-3	B-291	74	40	
180-137414-4	B-401	45	19	
180-137414-5	B-402R	124 X	31	
180-137414-6	B-403	81	32	
180-137414-7	B-404	71	27	
180-137414-8	MW-8R	9 X	65	
180-137414-9	EQUIPMENT BLANK	72	31	
180-137414-10	DUPE-X	9 X	0 X	
_CS 480-420660/2-A	Lab Control Sample	81	34	
MB 480-420660/1-A	Method Blank	71	37	

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

TestAmerica Buffalo

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

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

Lab Sample ID: MB 480-420660/1-A

**Matrix: Water** 

Analysis Batch: 420801

Client Sample ID: Method Blank

Prep Batch: 420660

Prep Type: Total/NA

l		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	PCB-1016	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 15:47	1
	PCB-1221	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 15:47	1
	PCB-1232	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 15:47	1
ı	PCB-1242	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 15:47	1
	PCB-1248	ND		0.50	0.18	ug/L		06/20/18 14:25	06/21/18 15:47	1
	PCB-1254	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 15:47	1
١	PCB-1260	ND		0.50	0.25	ug/L		06/20/18 14:25	06/21/18 15:47	1

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71	39 - 121	06/20/18 14:25	06/21/18 15:47	1
DCB Decachlorobiphenyl	37	19 - 120	06/20/18 14:25	06/21/18 15:47	1

Lab Sample ID: LCS 480-420660/2-A

**Matrix: Water** 

Analysis Batch: 420801

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

Prep Batch: 420660

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit PCB-1016 4.00 4.21 ug/L 105 62 - 130 PCB-1260 4.00 3.50 ug/L 87 56 - 123

LCS LCS

Surrogate	%Recovery (	Qualifier	Limits
Tetrachloro-m-xylene	81		39 - 121
DCB Decachlorobiphenyl	34		19 - 120

Lab Sample ID: 480-137414-1 MS

**Matrix: Water** 

Analysis Batch: 420801

Client Sample ID: B-281 (MS)
------------------------------

Prep Type: Total/NA

Prep Batch: 420660

-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		4.00	4.09		ug/L		102	28 - 150
PCB-1260	ND		4.00	2.97		ug/L		74	25 - 131
	440	***							

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	77		39 - 121
DCB Decachlorobiphenyl	45		19 - 120

Lab Sample ID: 480-137414-1 MSD

**Matrix: Water** 

Analysis Batch: 420801

Client Sample ID: B-281 (MSD)

Prep Type: Total/NA Prep Batch: 420660

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		4.00	4.13		ug/L		103	28 - 150	1	50
PCB-1260	ND		4.00	3.16		ug/L		79	25 - 131	6	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	77		39 - 121
DCB Decachlorobiphenyl	41		19 - 120

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Client: Barton & Loguidice, D.P.C. Project/Site: Metalico Wells Analysis TestAmerica Job ID: 480-137414-1

Method: 6010C - Metals (ICP)

La	ab S	Samp	le ID	: MB	480-4	1197	52/1-A

**Matrix: Water** 

Analysis Batch: 420566

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

**Prep Batch: 419752** 

**Prep Batch: 419752** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/15/18 09:07	06/19/18 16:55	1
Lead	ND		0.010	0.0030	mg/L		06/15/18 09:07	06/19/18 16:55	1

мв мв

Lab Sample ID: LCS 480-419752/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 420566 **Prep Batch: 419752** LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Arsenic 0.200 0.195 80 - 120 mg/L 97 Lead 0.200 0.194 mg/L 97 80 - 120

Lab Sample ID: 480-137414-1 MS Client Sample ID: B-281 (MS) **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 420566 **Prep Batch: 419752** Spike Sample Sample MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic 0.200 0.223 75 - 125 ND mg/L 111

Lab Sample ID: 480-137414-1 MS Client Sample ID: B-281 (MS) Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 420776

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	ND		0.200	0.215		mg/L		108	75 - 125	

Lab Sample ID: 480-137414-1 MSD Client Sample ID: B-281 (MSD) **Matrix: Water** Prep Type: Total/NA Analysis Batch: 420566 **Prep Batch: 419752** MSD MSD Sample Sample Spike %Rec. RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits **RPD** 

Limit ND 0.200 75 - 125 Arsenic 0.234 117 mg/L Lab Sample ID: 480-137414-1 MSD Client Sample ID: B-281 (MSD)

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 420776 **Prep Batch: 419752** Sample Sample Spike MSD MSD Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec RPD

Limit Lead ND 0.200 0.208 mg/L 104 75 - 125 4

Lab Sample ID: MB 480-419748/1-A

**Matrix: Water** 

Analysis Batch: 420784

Cheft Sample ID. Wethou Blank	
Prep Type: Total Recoverable	
Prep Batch: 419748	
	MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L	<del></del> : <del>_</del> _	06/15/18 09:08	06/21/18 00:21	1
Lead, Dissolved	ND		0.010	0.0030	mg/L		06/15/18 09:08	06/21/18 00:21	1

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Client Sample ID: Method Blank

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

Lead, Dissolved

ND

-

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

Lab Sample ID: LCS 480-419748/2-A	4						Client	Sample	ID: Lab Co	ontrol S	ample
Matrix: Water								Prep '	Type: Tota	I Recov	erable
Analysis Batch: 420784									Prep I	Batch: 4	119748
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic, Dissolved			0.200	0.201		mg/L		101	80 - 120		
Lead, Dissolved			0.200	0.196		mg/L		98	80 - 120		
Lab Sample ID: 480-137414-1 MS								Clier	nt Sample I	D: B-28	1 (MS)
Matrix: Water									Prep Ty	pe: Diss	solved
Analysis Batch: 420784									Prep I	Batch: 4	119748
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic, Dissolved	ND		0.200	0.216		mg/L		108	75 - 125		
Lab Sample ID: 480-137414-1 MS								Clier	nt Sample I	D: B-28	1 (MS)
Matrix: Water									Prep Ty	pe: Diss	solved
Analysis Batch: 421063									Prep I	Batch: 4	119748
•	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lead, Dissolved	ND		0.200	0.188		mg/L		94	75 - 125		
Lab Sample ID: 480-137414-1 MSD								Client	Sample ID	: B-281	(MSD)
Matrix: Water									Prep Ty	pe: Diss	solved
Analysis Batch: 420784									Prep I	Batch: 4	119748
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic, Dissolved	ND		0.200	0.219		mg/L		109	75 - 125	1	20
Lab Sample ID: 480-137414-1 MSD								Client	Sample ID	: B-281	(MSD)
Matrix: Water									Prep Ty	pe: Diss	solved
Analysis Batch: 421063									Prep I	Batch: 4	119748
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

0.200

0.209

mg/L

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75 - 125

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

### GC Semi VOA

### **Prep Batch: 420660**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Total/NA	Water	3510C	_
480-137414-2	B-290	Total/NA	Water	3510C	
480-137414-3	B-291	Total/NA	Water	3510C	
480-137414-4	B-401	Total/NA	Water	3510C	
480-137414-5	B-402R	Total/NA	Water	3510C	
480-137414-6	B-403	Total/NA	Water	3510C	
480-137414-7	B-404	Total/NA	Water	3510C	
480-137414-8	MW-8R	Total/NA	Water	3510C	
480-137414-9	EQUIPMENT BLANK	Total/NA	Water	3510C	
480-137414-10	DUPE-X	Total/NA	Water	3510C	
MB 480-420660/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-420660/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-137414-1 MS	B-281 (MS)	Total/NA	Water	3510C	
480-137414-1 MSD	B-281 (MSD)	Total/NA	Water	3510C	

### Analysis Batch: 420801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Total/NA	Water	8082A	420660
480-137414-2	B-290	Total/NA	Water	8082A	420660
480-137414-3	B-291	Total/NA	Water	8082A	420660
480-137414-4	B-401	Total/NA	Water	8082A	420660
480-137414-5	B-402R	Total/NA	Water	8082A	420660
480-137414-6	B-403	Total/NA	Water	8082A	420660
480-137414-7	B-404	Total/NA	Water	8082A	420660
480-137414-8	MW-8R	Total/NA	Water	8082A	420660
480-137414-9	EQUIPMENT BLANK	Total/NA	Water	8082A	420660
480-137414-10	DUPE-X	Total/NA	Water	8082A	420660
MB 480-420660/1-A	Method Blank	Total/NA	Water	8082A	420660
LCS 480-420660/2-A	Lab Control Sample	Total/NA	Water	8082A	420660
480-137414-1 MS	B-281 (MS)	Total/NA	Water	8082A	420660
480-137414-1 MSD	B-281 (MSD)	Total/NA	Water	8082A	420660

# Metals

### **Prep Batch: 419748**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Dissolved	Water	3005A	
480-137414-2	B-290	Dissolved	Water	3005A	
480-137414-3	B-291	Dissolved	Water	3005A	
480-137414-4	B-401	Dissolved	Water	3005A	
480-137414-5	B-402R	Dissolved	Water	3005A	
480-137414-6	B-403	Dissolved	Water	3005A	
480-137414-7	B-404	Dissolved	Water	3005A	
480-137414-8	MW-8R	Dissolved	Water	3005A	
480-137414-9	EQUIPMENT BLANK	Dissolved	Water	3005A	
480-137414-10	DUPE-X	Dissolved	Water	3005A	
MB 480-419748/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-419748/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-137414-1 MS	B-281 (MS)	Dissolved	Water	3005A	
480-137414-1 MSD	B-281 (MSD)	Dissolved	Water	3005A	

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

## **Metals (Continued)**

### **Prep Batch: 419752**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Total/NA	Water	3005A	_
480-137414-2	B-290	Total/NA	Water	3005A	
480-137414-3	B-291	Total/NA	Water	3005A	
480-137414-4	B-401	Total/NA	Water	3005A	
480-137414-5	B-402R	Total/NA	Water	3005A	
480-137414-6	B-403	Total/NA	Water	3005A	
480-137414-7	B-404	Total/NA	Water	3005A	
480-137414-8	MW-8R	Total/NA	Water	3005A	
480-137414-9	EQUIPMENT BLANK	Total/NA	Water	3005A	
480-137414-10	DUPE-X	Total/NA	Water	3005A	
MB 480-419752/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-419752/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-137414-1 MS	B-281 (MS)	Total/NA	Water	3005A	
480-137414-1 MSD	B-281 (MSD)	Total/NA	Water	3005A	

### Analysis Batch: 420566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Total/NA	Water	6010C	419752
480-137414-2	B-290	Total/NA	Water	6010C	419752
480-137414-3	B-291	Total/NA	Water	6010C	419752
480-137414-4	B-401	Total/NA	Water	6010C	419752
480-137414-5	B-402R	Total/NA	Water	6010C	419752
480-137414-6	B-403	Total/NA	Water	6010C	419752
480-137414-7	B-404	Total/NA	Water	6010C	419752
480-137414-8	MW-8R	Total/NA	Water	6010C	419752
480-137414-9	EQUIPMENT BLANK	Total/NA	Water	6010C	419752
480-137414-10	DUPE-X	Total/NA	Water	6010C	419752
MB 480-419752/1-A	Method Blank	Total/NA	Water	6010C	419752
LCS 480-419752/2-A	Lab Control Sample	Total/NA	Water	6010C	419752
480-137414-1 MS	B-281 (MS)	Total/NA	Water	6010C	419752
480-137414-1 MSD	B-281 (MSD)	Total/NA	Water	6010C	419752

### Analysis Batch: 420776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Total/NA	Water	6010C	419752
480-137414-2	B-290	Total/NA	Water	6010C	419752
480-137414-1 MS	B-281 (MS)	Total/NA	Water	6010C	419752
480-137414-1 MSD	B-281 (MSD)	Total/NA	Water	6010C	419752

### Analysis Batch: 420784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Dissolved	Water	6010C	419748
480-137414-2	B-290	Dissolved	Water	6010C	419748
480-137414-3	B-291	Dissolved	Water	6010C	419748
480-137414-4	B-401	Dissolved	Water	6010C	419748
480-137414-5	B-402R	Dissolved	Water	6010C	419748
480-137414-6	B-403	Dissolved	Water	6010C	419748
480-137414-7	B-404	Dissolved	Water	6010C	419748
480-137414-8	MW-8R	Dissolved	Water	6010C	419748
480-137414-9	EQUIPMENT BLANK	Dissolved	Water	6010C	419748
480-137414-10	DUPE-X	Dissolved	Water	6010C	419748

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# **QC Association Summary**

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

Project/Site: Metalico Wells Analysis

TestAm

TestAmerica Job ID: 480-137414-1

### **Metals (Continued)**

# Analysis Batch: 420784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-419748/1-A	Method Blank	Total Recoverable	Water	6010C	419748
LCS 480-419748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	419748
480-137414-1 MS	B-281 (MS)	Dissolved	Water	6010C	419748
480-137414-1 MSD	B-281 (MSD)	Dissolved	Water	6010C	419748

### Analysis Batch: 421063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137414-1	B-281	Dissolved	Water	6010C	419748
480-137414-2	B-290	Dissolved	Water	6010C	419748
480-137414-1 MS	B-281 (MS)	Dissolved	Water	6010C	419748
480-137414-1 MSD	B-281 (MSD)	Dissolved	Water	6010C	419748

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

Lab Sample ID: 480-137414-1

Matrix: Water

Client Sample ID: B-281
Date Collected: 06/13/18 00:00
Date Received: 06/14/18 01:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 16:51	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 00:28	S1P	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		5	421063	06/21/18 12:31	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		10	420776	06/20/18 13:23	LMH	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 17:53	LMH	TAL BUF

Client Sample ID: B-290 Lab Sample ID: 480-137414-2

Matrix: Water

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Total/NA 3510C 420660 06/20/18 14:25 TAL BUF Prep ATG Total/NA 8082A 420801 Analysis 1 06/21/18 17:07 W1T TAL BUF Dissolved Prep 3005A 419748 06/15/18 09:08 KMP TAL BUF Dissolved 6010C TAL BUF Analysis 1 420784 06/21/18 00:58 S1P 3005A TAL BUF Dissolved Prep 419748 06/15/18 09:08 KMP Dissolved Analysis 6010C 5 421063 06/21/18 12:49 S1P TAL BUF Prep Total/NA 3005A 419752 06/15/18 09:07 **KMP** TAL BUF Total/NA 6010C TAL BUF Analysis 5 420776 06/20/18 13:34 LMH Total/NA Prep 3005A 419752 06/15/18 09:07 **KMP** TAL BUF Total/NA Analysis 6010C 1 420566 06/19/18 18:16 LMH TAL BUF

Client Sample ID: B-291 Lab Sample ID: 480-137414-3

Date Collected: 06/13/18 00:00 Matrix: Water
Date Received: 06/14/18 01:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 17:55	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:02	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:19	LMH	TAL BUF

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

Lab Sample ID: 480-137414-4

Matrix: Water

Matrix: Water

Client Sample ID: B-401 Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 18:10	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:06	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:23	LMH	TAL BUF

Client Sample ID: B-402R Lab Sample ID: 480-137414-5

Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 18:26	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:09	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:27	LMH	TAL BUF

Client Sample ID: B-403 Lab Sample ID: 480-137414-6

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 18:42	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:13	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:31	LMH	TAL BUF

Client Sample ID: B-404 Lab Sample ID: 480-137414-7 Date Collected: 06/13/18 00:00 **Matrix: Water** 

Date Received: 06/14/18 01:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		1	420801	06/21/18 18:58	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:17	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:34	LMH	TAL BUF

TestAmerica Buffalo

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**Matrix: Water** 

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

Client Sample ID: MW-8R

Date Collected: 06/13/18 00:00 Date Received: 06/14/18 01:00 Lab Sample ID: 480-137414-8

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3510C 420660 06/20/18 14:25 ATG TAL BUF 8082A Total/NA 420801 06/21/18 19:14 TAL BUF Analysis 10 W1T Dissolved Prep 3005A 419748 06/15/18 09:08 KMP TAL BUF Dissolved 6010C 420784 S1P TAL BUF Analysis 1 06/21/18 01:42 Total/NA 3005A 419752 06/15/18 09:07 **KMP** TAL BUF Prep Total/NA Analysis 6010C 1 420566 06/19/18 18:41 LMH TAL BUF

**Client Sample ID: EQUIPMENT BLANK** 

Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

Lab Sample ID: 480-137414-9

Matrix: Water

Batch Dilution Batch Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 3510C 420660 06/20/18 14:25 ATG TAL BUF Total/NA 8082A 420801 Analysis 1 06/21/18 19:30 W1T TAL BUF Dissolved Prep 3005A 419748 06/15/18 09:08 KMP TAL BUF 6010C 420784 TAL BUF Dissolved Analysis 06/21/18 01:20 S1P Total/NA 3005A 06/15/18 09:07 KMP TAL BUF Prep 419752 TAL BUF Total/NA Analysis 6010C 1 420566 06/19/18 18:38 LMH

Client Sample ID: DUPE-X

Date Collected: 06/13/18 00:00

Date Received: 06/14/18 01:00

Lab Sample ID: 480-137414-10

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			420660	06/20/18 14:25	ATG	TAL BUF
Total/NA	Analysis	8082A		10	420801	06/21/18 19:46	W1T	TAL BUF
Dissolved	Prep	3005A			419748	06/15/18 09:08	KMP	TAL BUF
Dissolved	Analysis	6010C		1	420784	06/21/18 01:46	S1P	TAL BUF
Total/NA	Prep	3005A			419752	06/15/18 09:07	KMP	TAL BUF
Total/NA	Analysis	6010C		1	420566	06/19/18 18:56	LMH	TAL BUF

### Laboratory References:

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

TestAmerica Buffalo

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# **Accreditation/Certification Summary**

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

TestAmerica Job ID: 480-137414-1

### Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	<b>Expiration Date</b>
New York	NELAP	2	10026	03-31-18 *

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<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

# **Method Summary**

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

TestAmerica Job ID: 480-137414-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	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

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# **Sample Summary**

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

TestAmerica Job ID: 480-137414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137414-1	B-281	Water	06/13/18 00:00	06/14/18 01:00
480-137414-2	B-290	Water	06/13/18 00:00	06/14/18 01:00
480-137414-3	B-291	Water	06/13/18 00:00	06/14/18 01:00
480-137414-4	B-401	Water	06/13/18 00:00	06/14/18 01:00
480-137414-5	B-402R	Water	06/13/18 00:00	06/14/18 01:00
480-137414-6	B-403	Water	06/13/18 00:00	06/14/18 01:00
480-137414-7	B-404	Water	06/13/18 00:00	06/14/18 01:00
480-137414-8	MW-8R	Water	06/13/18 00:00	06/14/18 01:00
480-137414-9	EQUIPMENT BLANK	Water	06/13/18 00:00	06/14/18 01:00
480-137414-10	DUPE-X	Water	06/13/18 00:00	06/14/18 01:00

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10 Hazelwood Drive	Chain of C	ain of Custody Record			TestAmerica
Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991				2. 通常证	THE LEADER IN ENVIRONMENTAL TESTING
Client Information	Sample Strady	Lab PM Johnson, Orlette S	Se		COC No: 480-113998-22995,1
Client Contact Matthew Strodel	315-457500	E-Mail: orlette.johnson@	E-Mail: orlette.johnson@testamericainc.com	200	Page: Page 1 of 2
Company. Barton & Loguidice, D.P.C.			Analysis Reque	480-137414 COC	100 # 30C, CES CET
Address: 443 Electronics Parkway	Due Date Requested:				S
City	TAT Requested (days): 5-H				B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip. NY, 13088					
Phone: 315-744-3850(Tel)	PO# 39118	(0			Acid
Email: mstrodel@bartonandloguidice.com	"0# /206,002,007	N 10 s			J - Di Water
Project Name Metalico Wells Analysis Sate	Project #: 48014531	Yes or	_		L-EDA Other
0110	**************************************	wes pa	1000		The second second
Sample Identification	Sample Sample (C=comp, Sample Date Time G=grab)	Matrix (Wewater, Gardoll, Description MS)  Thy, Orwastell, Held Hiller MS  BD 677-73sse A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	6010C - Total		Numb Numb Special Instructions/Note:
	X	ation Code: XX	-		
B-281	000/11/13	Water   Y Y   K	×		
B-281 (MS)		Water / Y /			
B-281 (MSD)		Water / /			
B-290		Water			
B-291		Water			
B-401		Water			
B-402R		Water			
B-403		Water			
B-404		Water			
MW-8R		Water			
Equipment Blank	Ż	Water Lt C	÷		
Possible Hazard Identification  Non-Hazard — Flammable Skin Irritant	Poison B Unknown Radiological		le Disposal ( A fee may be asse	assessed if samples are	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Months
Sted: I, II, III, IV, Other (specify)			Requireme		
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment.	
Retinquished by	C4/3/8 15.35		20 45 lu 6	Date/Time:	-16, 15: 25 Company
Relinquished by Re19 (114	Date Time: 18 18:00	44	May I	Data/Time	-IV CHOU COMPANY
	Date: time.	Company	ived by	Date/Time:	Company
Custody Seals Intact: Custody Seal No.: A Yes A No		Cool	Cooler Temperature(s) °C and Other Remarks	(8)	1/4 /1/0/

# Chain of Custody Record

TestAmerica Buffalo

Client information   Compared from State	Amherst, NY 14228-2298 Phone (716) 691-2600 Fax (716) 691-7991		,						THELEADE	THE LEADER IN ENVIRONMENTAL TESTING
Sample Date Time Graph Innovated (army 1890 of 2 contains to 2 contains	Client Information	Sample TH The	ast	Lab PM: Johnsor	n, Orlette S		Carrier Trackin	g No(s):	COC No: 480-11399	8-22995.2
The Requested (days)	Client Contact: Matthew Strodel	35-457-52c	8	E-Mail: orlette.jc	ohnson@tes	tamericainc.com			Page 2 of 2	
Due due Requested (asys):  The following the figures of a system of the first of th	Company. Barton & Loguidice, D.P.C.					Analysis	Requested		30b#	6,000
Note	Address: 443 Electronics Parkway	1	0						Preservatio	10
Sample Date Sample Date Sample Date Company  Sample Date Sample Date Sample Date Sample Date of Matrix  Sample Date Sample Date Date of Matrix  No D D D Secret Date of Matrix  N	City. Liverpool State, Zip: NY, 13088		Q						A - HCL B - NaOH C - Zn Acetal D - Nimc Acid	
Sample Date Time G-grab) Inchine Matrix And Date of	Phone: 315-744-3850(Tel)	PO#.		(0					F - MeOH G - Amchlor H - Ascorbic	
Sample Date  Sample Matrix dangle (February Contest)  Sample Date  Time Graph   Preservation Code  Water   Preservation Code  Water   Preservation Code  Water   Preservation Code  Time Graph   Preservation Code  Water   Preservation Code  Time Graph   Preservation Code  Water   Preservation Code  Time   Preservation Code  Water   Preservation Code  Time   Preservation Code  Time	Email: mstrodel@bartonandloguidice.com	26000	KA	N 10	(oN			-		
Sample Date Time Gegraph Instruction Remarks Sample Date Time Gegraph Instruction Remarks Sample Date Time Gegraph Instruction Code Remarks Sample Date Time Sample Disposal (A fee may be assessed if samples are retained for Date Time Company Recognition Code Remarks Samples are retained for Date Time Company Recognition Code Remarks Samples are retained for Date Time Company Recognition Code Remarks Samples are retained for Date Time Company Recognition Code Remarks Date Time Company Recognition Code Remarks Date Time Company Recognition Code Remarks Date Time Code Temperatures Cod	Project Name: Metalico Wells Analysis	Project #: 48014531		ээд) ә	JO SE	dq				W - pH 4-5 Z - other (specify)
Sample Date  Sample Date  Time G-grab) In-manature   Matrix   Matr	She.	ssow#		Idma2	10 - \$8	, sA be			CONTRACTOR OF STREET	
The poison B Unknown Radiological Sample Disposal (A fee may be assessed if samples are retained long peach)  Sample Disposal (A fee may be assessed if samples are retained long peach)  Sample Disposal (A fee may be assessed if samples are retained long peach)  The Date:    Date:   Time:	Samule Identification	0)			M/SM mohec	1010C - Dissolvi				ial Instructions/Note:
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Special Instructions/OC Requirements.  Special I	TO THE				Z	9 0				
ant Deison B Unknown Radiological Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo Receipt Time.    Dealer   Poison B Unknown   Radiological   Sepecial Instructions/OC Requirements.   Metrod of Singment   Sepecial Instructions/OC Requirements.   Metrod of Singment   Department   Sepecial Instructions/OC Requirements.   Department   Depa	Dupe-X	1/2	-		×	+				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Special Instructions/QC Requirements.    Date:   Special Instructions/QC Requirements.   Date/Time   Date										
ant Deuson B Unknown Rediciogical Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo Receiptors) Client Time:    Date:   Poison B Unknown Date:   Special Instructions/OR Requirements:   Death of Shipment										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Receipt Instructions/QC Requirements:  Date:  Time:  Date:  Time:  Date:  Time:  Date:  Date: Date									103.	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Return To Client Poison B	1.0									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Return To Client Return To Special Instructions/OC Requirements:  Date: Time: Receive by Receive by Company Received by Date/Time: Date/Tim	13-18									
ant Date:  Date: Date	1									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo  Special Instructions/QC Requirements:  Date:  Date: Date:  Date:										
Date/Time:    Date:   Time:   Time:   Time:   Method of Shipment:   Company   Received by   Company   Company   Received by   Company   Co	ant	Poison B	Radiological		Sample Dis	posal ( A fee may n To Client uctions/OC Requir	Disposal By Lements	amples are r	etained longer the	ian 1 month) Months
Received W Bate/Time: Company Received W Received W Bate/Time: P. 12-18 18:12 Company Received W Bate/Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/	Empty Kit Relinquished by:	Date:		T	.92		Method o	f Shipment.		
Recorded by Recorded by BaterTime: Company Recorded by Control Company Recorded by Control Company A No.	Reinquight by	8	,	7		-wells	7	Date/Time:	18,15	
Custody Seal No.:	R. Culgh.	13-18		Serie A	2	) Min		Date/Time:		Company
					CoelerTe	nperature(s) °C and Ot	ner Remarks;		1	1

# **Login Sample Receipt Checklist**

Client: Barton & Loguidice, D.P.C. Job Number: 480-137414-1

Login Number: 137414 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.	False	SAMPLE TIMES NOT LISTED ON COC.
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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