Mabbett & Associates, Inc.
Environmental Consultants & Engineers

A SERVICE DISABLED VETERAN OWNED SMALL BUSINESS

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December 17, 2010

Mr. Donald Heller
Regional PCB Coordinator
US EPA Region V
77 W. Jackson Blvd.
Chicago, IL 60604

Re: Polychlorinated Biphenyl Action Summary Report
Bodycote Thermal Processing
1975 N. Ruby Street
Melrose Park, IL 60160
Project No. 1998002.286

Dear Mr. Heller:

On behalf of Bodycote Thermal Processing (Bodycote), Mabbett & Associates, Inc. (M&A) has prepared the enclosed Annual Polychlorinated Biphenyl Action Summary Report for the facility located at 1975 North Ruby Street in Melrose Park, Illinois.

The PCB Action Summary Report for the Heat Treat Building is attached for your review and consideration. If you have any questions or require any further action, please do not hesitate to contact me at (781) 275-6050.

Very truly yours,

MABBETT & ASSOCIATES, INC.

BY:

James R. Greacen
Director, Site Assessment and Restoration

/tw

Enclosure: Annual Polychlorinated Biphenyl Action Summary Report dated December 15, 2010

cc: Mario Ciampini (Bodycote Thermal Processing)
Tom Anderson (Bodycote Thermal Processing)
Paula Stine (IEPA)
(MF)

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Serving the Environmental, Health and Safety Needs of Industry, Commercial Enterprise and Public Agencies™

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December 19, 2011

Mr. Donald Heller
Regional PCB Coordinator
US EPA Region V
77 W. Jackson Blvd.
Chicago, IL 60604

ILD 005 071 808

Re: Polychlorinated Biphenyl Action Summary Report
Bodycote Thermal Processing
1975 N. Ruby Street
Melrose Park, IL 60160
Project No. 1998002.304

Dear Mr. Heller:

On behalf of Bodycote Thermal Processing (Bodycote), Mabbett & Associates, Inc. (Mabbett) has prepared the enclosed Annual Polychlorinated Biphenyl Action Summary Report for the facility located at 1975 North Ruby Street in Melrose Park, Illinois.

The PCB Action Summary Report for the Heat Treat Building is attached for your review and consideration. If you have any questions or require any further action, please do not hesitate to contact me at (781) 275-6050.

Very truly yours,

MABBETT & ASSOCIATES, INC.

BY:

James R. Greacen
Director, Site Assessment and Restoration

/tw

Enclosure: Annual Polychlorinated Biphenyl Action Summary Report dated December 19, 2011

cc: Mario Ciampini (Bodycote Thermal Processing)
Tom Anderson (Bodycote Thermal Processing)
Paula Stine (IEPA)
(MF)

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Mabbett & Associates, Inc.

Environmental Consultants & Engineers

ANNUAL POLYCHLORINATED BIPHENYL ACTION SUMMARY REPORT

BODYCOTE THERMAL PROCESSING MELROSE PARK, ILLINOIS

PROJECT NO. 1998002.304

December 19, 2011

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ACKNOWLEDGMENT

This *Annual Polychlorinated Biphenyl Action Summary Report* for the Site located at 1975 North Ruby Street in Melrose Park, Illinois has been prepared for the sole and exclusive use of Bodycote Thermal Processing, Inc. This report is subject to and issued in connection with the Letter-Agreements dated July 21, 2011. Any use or reliance upon information provided in this report, without the specific written authorization of Bodycote Thermal Processing, Inc. and Mabbett & Associates, Inc. shall be at the User's sole risk. No attempt has been made to assess the compliance status of any past or present Owner or Operator of the Property with any Federal, state, or local laws or regulations except as described herein with respect to this particular project.

The findings, observations, and conclusions presented in this report, including the extent of subsurface explorations and other tests, are limited by the scope of services outlined in our Letter-Agreements which reflect schedule and budgetary constraints. The professional opinions and findings presented in this report are based on the facts and information conveyed to or observed by Mabbett & Associates, Inc. during completion of this project. Furthermore, assessment and field operations have been performed in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

The assessment presented in this report is based solely upon the laws and regulations existing as of the date of this report as well as the information gathered to date including a limited number of subsurface explorations made on the dates indicated and performed by others. Should further environmental or other relevant information be developed at a later date, Bodycote Thermal Processing, Inc. should bring such information to the attention of Mabbett & Associates, Inc. as soon as possible. Based upon an evaluation, Mabbett & Associates, Inc. may modify this report and its conclusions.

This report was prepared by the following Mabbett & Associates, Inc. personnel:

Christopher L. Mabbett, EIT
Project Manager and Environmental Engineer

This report has been reviewed and approved by:

MABBETT & ASSOCIATES, INC.

BY:

James R. Greacen, PG
Director, Site Assessment and Restoration

Paul D. Steinberg, PE
Senior Vice President & General Manager

TABLE OF CONTENTS

Description		Page
I.	INTRODUCTION	1
II.	DISPOSAL SITE DESCRIPTION	1
III.	SITE HISTORY	1
IV.	PCB ACTIONS	3
	A. PCB Storage Area	3
	B. Groundwater Sampling	3
V.	NATURE AND EXTENT OF PCB CONTAMINATION	3
VI.	SUMMARY	4
VII.	FURTHER EXPLORATION/REMEDIAL ACTIONS	4

LIST OF TABLES

No.	Description
1	Summary of Laboratory Analytical Results
2	Summary of Non Aqueous Phase Liquid Laboratory Analytical Results

LIST OF DRAWINGS

No.	Description
L-1	Site Location Map
L-2	Monitoring Well Location Plan
L-3	Heat Treat Building Area of PCB Contamination - October 2011
L-4	Heat Treat Building Shallow Groundwater Contours – October 2011

LIST OF APPENDICES

No.	Description
A	Laboratory Analytical Reports – April and October 2011

I. INTRODUCTION

Mabbett & Associates, Inc. (Mabbett) has prepared this Annual Polychlorinated Biphenyl (PCB) Action Summary Report on behalf of our client, Bodycote Thermal Processing (Bodycote), for the Site located at 1975 North Ruby Street in Melrose Park, Illinois. This summary report has been prepared in accordance with 40 CFR 761, the Polychlorinated Biphenyl Action/Work Plan dated September 12, 2006, and the Polychlorinated Biphenyl Action/Work Plan Amendment letter approved by EPA on March 1, 2010.

The presence of PCB contamination in groundwater and non-aqueous phase liquid (NAPL) beneath the Heat Treat Building (HTB) within a portion of the Bodycote facility was identified in 2000. Source investigations and analytical sampling that define the nature and extent of PCB contamination have been ongoing since that time. The following sections discuss the data collected and PCB actions taken during 2011 as part of the Site's approved PCB Action/Work Plan.

II. DISPOSAL SITE DESCRIPTION

The Bodycote facility is an industrial complex located at 1975 North Ruby Street in Melrose Park, Illinois. The facility was constructed in the 1950s and has been the site of heat treating operations since that time. The property is located in an industrial zoned area and is planned for continued use as a manufacturing facility into the foreseeable future. A Site Location Map and a Monitoring Well Location Plan are provided as Drawings L-1 and L-2, respectively.

III. SITE HISTORY

The presence of PCBs beneath the Bodycote HTB was discovered in May 2000 during routine profiling of groundwater and dense non-aqueous phase liquid (DNAPL) associated with remedial efforts to remove free product from on-site well M&A-113 (refer to Drawing L-2). Of the nine drums that were profiled for off-site disposal, eight had detectable concentrations of Aroclor 1248 ranging from 341 milligrams per kilogram (mg/kg) to 516 mg/kg. These detections were above applicable state and federal standards for PCBs.

In response to the May 2000 PCB detections, Mabbett initiated an in-depth review of available documentation for the property in order to identify potential sources of PCB contamination at the Site. Mabbett reviewed records at the Bodycote facility, the State Fire Marshall, the Village of Melrose Park Fire Department, the Village of Melrose Park Building Department, and Village of Melrose Park Health Office, however, no records were located which documented PCB use, spills, or the presence of PCB containing equipment at the Site. Bodycote personnel were also interviewed for their knowledge regarding PCB spills or PCB containing equipment at the facility, but no known PCB spills or PCB containing equipment was identified to the best of the personnel's knowledge.

During September 2000, Mabbett sampled NAPL occurring in monitoring wells M&A-113 and M&A-111 for PCB analysis. Laboratory results indicated the presence of Aroclor 1248 at concentrations of 1,600 mg/kg and 3,308 mg/kg, respectively. Upon further corroboration of laboratory results, Mabbett conducted a round of groundwater sampling in October 2002. Samples were collected from seven monitoring wells located in the Heat Treat Building and submitted for laboratory analysis of PCBs in accordance with United States Environmental Protection Agency (EPA) Test Method 8082.

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Detected concentrations of PCBs were observed in groundwater collected from four of the seven monitoring wells at concentrations between 1.6 micrograms per liter (μg/L) and 600 μg/L. The Illinois Environmental Protection Agency (IEPA) TACO Tier I Class II (restricted use) groundwater standard for PCBs is 2.5 μg/L.

Between 2002 and 2006, Mabbett conducted additional groundwater and NAPL sampling in order to obtain the additional data necessary for formulating a PCB Action/Work Plan. During this time, low flow sampling methods were used to reduce sample turbidity to obtain more representative samples to evaluate dissolved PCB concentrations. The resulting analytical results were significantly lower using the revised and more appropriate sampling techniques. The results of the PCB sampling events are summarized in Tables 1 and 2. NAPL recovery efforts initiated at the Site under the IEPA Voluntary Cleanup Program (VCP) are removing PCB mass from the subsurface and may also be contributing to the lower PCB concentrations observed during recent sampling events.

In October 2005, Mabbett contacted Ms. Pricilla Fonseca (Region V EPA) to establish the actions necessary to address the identified PCBs at the facility. Ms. Fonseca informed Mabbett that Bodycote needed to file a "Notice of PCB Activity" (Form #7710-53) and a PCB Action/Work Plan with the EPA. Form #7710-53 was filed on November 8, 2005. A PCB Action/Work Plan was submitted on September 12, 2006 and proposed the following:

- Install additional monitoring wells in the northwest region of the Heat Treat Building and outside the northwestern wall of the Heat Treat Building to confirm the extent of PCB contamination;

- Continue NAPL recovery efforts initiated under the IEPA approved VCP; continued removal of light non-aqueous phase liquid (LNAPL) and DNAPL was expected to result in further reductions in PCB concentrations at the Site;

- Maintain constructed engineered barriers, utilizing existing concrete slab flooring, over areas of residual soil impacts to eliminate potential exposure; and

- Conduct ongoing periodic training of Bodycote personnel in appropriate PCB waste management procedures.

On November 15, 2006, Mabbett personnel oversaw the advancement of three soil borings in and around the northwestern portion of the HTB for the purpose of delineating the extent of PCBs. The soil borings were advanced by Precon Drilling, Inc. of Addison, Illinois using hollow stem auger drilling techniques. The soil borings were completed with 2-inch diameter monitoring wells and designated M&A-130, M&A-131, and M&A-133 (refer to Drawing L-2).

Monitoring wells M&A-130 and M&A-131 are located outside of the Heat Treat Building along Ruby Street. Shallow monitoring well M&A-130 was advanced to 16 feet below ground surface (bgs) with a 10-foot screen interval located between 5 and 15 feet bgs. Intermediate monitoring well M&A-131 was advanced to 30 feet bgs with a 10-foot screen interval located between 19 and 29 feet bgs. Soils encountered during the advancement of these monitoring wells were generally clays with some silt and gravel. Visual or olfactory indicators of contamination were not observed in either of the boreholes located outside the Heat Treat Building.

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Monitoring well M&A-133 is located in the northwest corner of the Heat Treat Building and is an intermediate well advanced to 30 feet bgs. The monitoring well is screened between 19 and 29 feet bgs. Soils encountered in the boring consisted of approximately 9 feet of fill material underlain by clays. Visual and olfactory screening of the soils did not indicate the presence of contaminants.

Mabbett collected groundwater samples from newly installed monitoring wells M&A-131 and M&A-133 (designated Outside-I and Inside-I, respectively on the laboratory report) on December 19, 2006. Monitoring well M&A-130 could not be sampled due to the lack of groundwater recharge into the well. Groundwater samples were submitted to TestAmerica Analytical Testing Corporation (TestAmerica) of Nashville, Tennessee for analysis of PCBs in accordance with EPA Test Method 8082. Based on the analytical results, PCBs were not detected in groundwater collected from monitoring wells M&A-131 and M&A-133 above laboratory reporting limits.

PCB actions taken at the Bodycote facility since the submittal of the PCB Action Summary Report in December 2010 are summarized in the following sections.

IV. PCB ACTIONS

A. PCB Storage Area

In accordance with 40 CFR 761.65, Bodycote is required to have a hazardous waste storage area at the facility that is designed for PCB wastes if waste materials contain 50 parts per million (ppm) or greater of PCBs A waste accumulation area has been established in the HTB. The accumulation area generally contains two to three 55-gallon drums including one for NAPL containing materials such as absorbent socks and bailers used for manual product removal, one for DNAPL extracted from monitoring well M&A-113, and one for LNAPL removed from monitoring well M&A-114. The drums are situated on secondary containment pallets with a storage capacity greater than 55 gallons. Drums stored in the Hazardous Waste Storage Area are labeled with the applicable waste codes and the words "CONTAINS PCBs" on a hazardous waste label. All PCB containing wastes at the Bodycote facility are disposed of within 90 days of their storage start date in accordance with 40 CFR 761.65.

B. Groundwater Sampling

PCB sampling was performed at thirteen (13) groundwater monitoring well locations during routine Semi-Annual Sampling Events conducted in accordance with the EPA PCB Action/Work Plan approval letter dated March 1, 2010. Tables 1 and 2 provide PCB sampling data collected to date for both groundwater and NAPL beneath the HTB. In general, concentrations of PCBs detected at the Site have decreased significantly since their discovery in May 2000. Additional discussion regarding the nature and extent of PCBs in groundwater and NAPL at the Bodycote facility is provided in Section V.

V. NATURE AND EXTENT OF PCB CONTAMINATION

Based on recent PCB data for the HTB (provided in Tables 1 and 2), PCBs appear to be limited to groundwater in the vicinity of monitoring wells M&A-104, M&A-110, M&A-111, M&A-112, and M&A-113, and NAPL in the vicinity of wells M&A-113 and M&A-114. As indicated in Table 1,

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detected concentrations of PCBs in groundwater beneath the HTB have been below the IEPA TACO Tier I Class II (restricted use) Groundwater Standard of 2.5 µg/L since the spring 2006 sampling event with the exception of wells M&A-112 and M&A-113.

Drawing L-3 depicts the area of PCB groundwater contamination beneath the HTB in October 2011. The successful elimination of LNAPL in monitoring well M&A-301 and the absence of PCBs in groundwater at downgradient boundary wells M&A-122 and M&A-301 indicate that the likelihood for migration of PCB contaminated groundwater in a westerly direction off the property is minimal (refer to Drawing L-4 Heat Treat Building Shallow Groundwater Contours).

VI. SUMMARY

Groundwater samples have been collected and analyzed for PCBs over the past several years from monitoring wells located throughout the Heat Treat Building in an effort to identify a source of PCB contamination at the Site. While no definitive source has been identified, the distribution of PCB contamination has been defined as a limited area beneath a portion of the Heat Treat Building of Bodycote facility. Dissolved concentrations of PCBs in groundwater have declined significantly since the discovery of PCBs at the Site in 2000, and with the exception of wells M&A-112 and M&A-113, have been below applicable IEPA TACO Tier I Standards since 2006.

NAPL recovery efforts in the Heat Treat Building are ongoing and appear to have reduced the occurrence of NAPL in this portion of the Site to only those areas around monitoring wells M&A-112 and M&A-113. Continuing to remove free product to the extent practicable in this area appears to be the most effective means of achieving additional PCB reductions in the Heat Treat Building.

VII. FURTHER EXPLORATION/REMEDIAL ACTIONS

Based on the information collected to date, Mabbett recommends continued NAPL removal as the primary course of action for reducing PCB contamination at the Site. The *in situ* DNAPL extraction system located in well M&A-113 will continue to operate on a full-time basis in accordance with the VCP established for the Heat Treat Building. In addition, Bodycote and Mabbett personnel will continue to maintain/monitor on a weekly basis oil absorbent media in monitoring well M&A-114 and M&A-111.

Mabbett will continue to perform long term groundwater monitoring to coincide with the April and October semi-annual sampling events established under the VCP. PCB Summary Reports will be submitted to the EPA on an annual basis until such time that a status No Further Action has been issued for PCB contamination at the Site.

Based on the information presented herein, it is Mabbett's opinion that:

1. No active PCB release sources are present and based on diligent research no historic sources for PCBs have been identified.

2. The presence of PCBs appears to be commingled with NAPL and is limited in extent.

3. Groundwater quality appears to meet the IEPA standard for PCBs of 2.5 µg/L outside a limited and well-defined area.

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4. The extent of PCBs in the subsurface has been reasonably delineated.

5. PCBs do not appear to be migrating and based on site data, the potential for significant PCB migration is low.

6. Ongoing efforts to remove NAPL under the approved IEPA VCP also appear to be the most appropriate remediation strategy for PCBs.

7. No further investigation or additional remediation appears warranted at this time.

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TABLE 1
BODYCOTE THERMAL PROCESSING
HEAT TREATMENT BUILDING
SUMMARY OF GROUNDWATER POLYCHLORINATED BIPHENYL LABORATORY ANALYTICAL RESULTS

GW Samples			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
IEPA TACO Tier I Standard			2.5	2.5	2.5	2.5	2.5	2.5	2.5
WELL	AQUIFER	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-6	Shallow	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MW-10	Intermed	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MCA-1	Shallow	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/7/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MCA-2	Shallow	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2003	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/02/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MCA-3	Shallow	4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MCA-4	Shallow	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
MCA-5	Shallow	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/17/2006 (2)	NS	NS	NS	NS	NS	NS	NS
		5/15/2006	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007 (2)	NS	NS	NS	NS	NS	NS	NS
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.694)	BRL (<0.694)	BRL (0.694)	BRL (<0.694)	BRL (<0.694)	BRL (<0.694)	BRL (<0.694)
		10/19/2010	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)
		4/20/2011	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)
		10/25/2011	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)
M&A-101	Shallow	10/29/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-103	Shallow	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		4/17/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-104	Shallow	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	**1.6**	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2003	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/17/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**0.592**	BRL (<0.5)	BRL (<0.5)
		12/17/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/21/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**0.716**	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	**1.66**	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)
		10/19/2010	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)
		4/20/2011	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	**0.911**	BRL (<0.556)	BRL (<0.556)
		10/25/2011	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)

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TABLE 1
BODYCOTE THERMAL PROCESSING
HEAT TREATMENT BUILDING
SUMMARY OF GROUNDWATER POLYCHLORINATED BIPHENYL LABORATORY ANALYTICAL RESULTS

GW Samples			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
IEPA TACO Tier I Standard			2.5	2.5	2.5	2.5	2.5	2.5	2.5
WELL	AQUIFER	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
M&A-105	Shallow	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2003	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/19/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/2/2007 (4)	NS	NS	NS	NS	NS	NS	NS
		10/17/2007 (4)	NS	NS	NS	NS	NS	NS	NS
		4/16/2008 (4)	NS	NS	NS	NS	NS	NS	NS
		10/22/2008 (4)	NS	NS	NS	NS	NS	NS	NS
M&A-106	Shallow	5/15/2006	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-109	Deep	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/17/2006 (1)	NS	NS	NS	NS	NS	NS	NS
		10/19/2006 (1)	NS	NS	NS	NS	NS	NS	NS
		5/2/2007 (1)	NS	NS	NS	NS	NS	NS	NS
		10/17/2007 (1)	NS	NS	NS	NS	NS	NS	NS
		10/22/2008 (1)	NS	NS	NS	NS	NS	NS	NS
M&A-110	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		4/17/2006 (1)	NS	NS	NS	NS	NS	NS	NS
		5/15/2006	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	[illegible]	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.31**	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.11**	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**0.848**	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/21/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	0.508	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	**2.31**	BRL (<0.658)	BRL (<0.658)
		10/19/2010	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	**0.842**	BRL (<0.495)	BRL (<0.495)
		4/20/2011	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	**1.98**	BRL (<0.556)	BRL (<0.556)
		10/25/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	**2.10**	BRL (<0.500)	BRL (<0.500)
M&A-111	Intermed	10/02/2002	BRL (<25)	BRL (<50)	BRL (<25)	[illegible]	BRL (<25)	[illegible]	BRL (<25)
		10/23/2003	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**0.652**	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.16**	BRL (<0.5)	NS
		12/17/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/21/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**0.712**	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	**1.14**	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/19/2010	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)
		4/20/2011	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	BRL (<0.556)	**2.35**	BRL (<0.556)	BRL (<0.556)
		10/25/2011	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	**1.05**	BRL (<0.495)	BRL (<0.495)

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GW Samples			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
IEPA TACO Tier I Standard			2.5	2.5	2.5	2.5	2.5	2.5	2.5
WELL	AQUIFER	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
M&A-112	Shallow	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	[illegible]	BRL (<0.5)	[illegible]	BRL (<0.5)
		10/23/2003	BRL (<1.0)	BRL (<2.0)	BRL (<1.0)	BRL (<1.0)	[illegible]	[illegible]	BRL (<1.0)
		5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006[2]	NS	NS	NS	NS	NS	NS	NS
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.99**	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.02**	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.39**	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/21/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.04**	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/13/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	[illegible]	BRL (<0.658)	BRL (<0.658)
		10/19/2010	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	[illegible]	BRL (<0.490)	BRL (<0.490)
		4/20/2011	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	[illegible]	BRL (<0.526)	BRL (<0.526)
		10/25/2011	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	BRL (<0.485)	[illegible]	BRL (<0.485)	BRL (<0.485)
M&A-113	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		4/19/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	[illegible]	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.22**	BRL (<0.5)	BRL (<0.5)
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007[2]	NS	NS	NS	NS	NS	NS	NS
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		12/17/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	**1.29**	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/21/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	[illegible]	BRL (<0.5)	BRL (<0.5)
		4/13/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	[illegible]	BRL (<0.658)	BRL (<0.658)
		10/20/2010	BRL (<2.48)	BRL (<2.48)	BRL (<2.48)	BRL (<2.48)	[illegible]	BRL (<2.48)	BRL (<2.48)
		4/20/2011	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	[illegible]	BRL (<0.526)	BRL (<0.526)
		10/25/2011	BRL (<6.25)	BRL (<6.25)	BRL (<6.25)	BRL (<6.25)	[illegible]	BRL (<6.25)	BRL (<6.25)
M&A-114	Shallow	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	[illegible]	BRL (<0.5)	[illegible]	BRL (<0.5)
		4/17/2006 [3]	NS	NS	NS	NS	NS	NS	NS
		10/19/2006 [3]	NS	NS	NS	NS	NS	NS	NS
		5/2/2007 [3]	NS	NS	NS	NS	NS	NS	NS
		10/17/2007[3]	NS	NS	NS	NS	NS	NS	NS
		10/22/2008[3]	NS	NS	NS	NS	NS	NS	NS
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)
		10/19/2010	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)
		4/20/2011	BRL (<0.485)	BRL(<0.485)	BRL (<0.485)	BRL (<0.485)	**2.13**	BRL (<0.485)	BRL (<0.485)
		10/24/2011	BRL (<0.481)	BRL (<0.481)	BRL (<0.481)	BRL (<0.481)	BRL (<0.481)	BRL (<0.481)	BRL (<0.481)
M&A-115	Intermed	10/02/2002	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2003	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/19/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/2/2007 [1]	NS	NS	NS	NS	NS	NS	NS
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/08/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-116	Shallow	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		5/15/2006	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007[2]	NS	NS	NS	NS	NS	NS	NS
		10/22/2008[2]	NS	NS	NS	NS	NS	NS	NS
		4/07/2010	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)	BRL (<0.658)
		10/20/2010	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)
		4/20/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
		10/24/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)

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GW Samples			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
IEPA TACO Tier I Standard			2.5	2.5	2.5	2.5	2.5	2.5	2.5
WELL	AQUIFER	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
M&A-117	Intermed	5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/06/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-118	Shallow	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-119	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-120	Intermed	10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007[2]	NS	NS	NS	NS	NS	NS	NS
		10/22/2008[2]	NS	NS	NS	NS	NS	NS	NS
		12/17/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/06/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-121	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/02/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007[2]	NS	NS	NS	NS	NS	NS	NS
		10/22/2008[2]	NS	NS	NS	NS	NS	NS	NS
		12/17/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2010	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/20/2010	BRL (<0.515)	BRL (<0.515)	BRL (<0.515)	BRL (<0.515)	BRL (<0.515)	BRL (<0.515)	BRL (<0.515)
		4/20/2011	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)	BRL (<0.526)
		10/24/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
M&A-122	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/19/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/02/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/09/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/20/2010	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)	BRL (<0.495)
		4/20/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
		10/25/2011	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)

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TABLE 1
BODYCOTE THERMAL PROCESSING
HEAT TREATMENT BUILDING
SUMMARY OF GROUNDWATER POLYCHLORINATED BIPHENYL LABORATORY ANALYTICAL RESULTS

GW Samples			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
IEPA TACO Tier I Standard			2.5	2.5	2.5	2.5	2.5	2.5	2.5
WELL	AQUIFER	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
M&A-124	Shallow	5/15/2006	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)	BRL (<0.4)
		10/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/01/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/13/2010	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/21/2010	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
		4/20/2011	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)
		10/24/2011	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)
M&A-125	Intermed	5/18/2004	BRL (<0.5)	BRL (<1.0)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/18/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/18/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/23/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/21/2010	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)	BRL (<0.505)
		4/20/2011	BRL (<0.513)	BRL (<0.513)	BRL (<0.513)	BRL (<0.513)	BRL (<0.513)	BRL (<0.513)	BRL (<0.513)
		10/25/2011	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)	BRL (<0.588)
M&A-127	Intermed	10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-130	Shallow	4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/29/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/09/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-131	Intermed	12/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/29/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/09/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-133	Intermed	12/19/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/07/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
M&A-301	Shallow	4/19/2006	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)	BRL (<1.0)
		10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		5/02/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/17/2007	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/16/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/22/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/09/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/12/2010	1.08	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)	BRL (<0.625)
		10/20/2010	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)	BRL (<0.490)
		4/20/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
		10/25/2011	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)	BRL (<0.500)
M&A-208	Intermed	10/18/2006	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/30/2007(2)	NS	NS	NS	NS	NS	NS	NS
		10/17/2007(2)	NS	NS	NS	NS	NS	NS	NS
		10/28/2008	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		4/9/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)
		10/20/2009	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)	BRL (<0.5)

Notes:
µg/L - micrograms per liter
PCB analysis performed via EPA Method 8082
TACO - Tiered Approach toward Corrective Action
TACO Tier I Standards based on the Illinois Environmental Protection Agency Title 35. Admin Code 742.505
Tier 1 Remediation Objectives for Class II Groundwater
Shading indicates compound exceeds established Illinois EPA TACO Tier I standard.
BOLD values indicate compound was detected
NS - Not Sampled
(1) Not sampled, well was dry.
(2) Not sampled, insufficient water recharge to complete sampling.
(3) Not sampled, well contained no water, only Free Product
(4) Not sampled, obstruction in well.

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TABLE 2
BODYCOTE THERMAL PROCESSING
HEAT TREATMENT BUILDING
SUMMARY OF NON-AQUEOUS PHASE LIQUID POLYCHLORINATED BIPHENYL LABORATORY ANALYTICAL RESULTS

PCBs			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
WELL	**AQUIFER**	**DATE**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**
M&A-113	Intermed (DNAPL)	5/17/2004	BRL (< 50)	BRL (< 50)	BRL (< 50)	BRL (< 50)	**946**	BRL (< 50)	BRL (< 50)
		4/19/2006	BRL (<0.0326)	BRL (<0.0326)	BRL (<0.0326)	BRL (<0.0326)	BRL (<0.0326)	BRL (<0.0326)	BRL (<0.0326)
		10/19/2006 (1)	NS	NS	NS	NS	NS	NS	NS
		5/2/2007	BRL (<3.2)	BRL (<3.2)	BRL (<3.2)	BRL (<3.2)	**953**	BRL (<3.2)	BRL (<3.2)
		10/17/2007	BRL (<6.53)	BRL (<6.53)	BRL (<6.53)	BRL (<6.53)	**1,320**	BRL (<6.53)	BRL (<6.53)
		4/16/2008	BRL (<3.33)	BRL (<3.33)	BRL (<3.33)	BRL (<3.33)	**1,330**	BRL (<3.33)	BRL (<3.33)
		10/22/2008	BRL (<3.26)	BRL (<3.26)	BRL (<3.26)	BRL (<3.26)	**1,270**	BRL (<3.26)	BRL (<3.26)
		4/7/2009	BRL (<1.33)	BRL (<1.33)	BRL (<1.33)	**38.4**	BRL (<1.33)	BRL (<1.33)	BRL (<1.33)
		10/21/2009	BRL (<1.66)	BRL (<1.66)	BRL (<1.66)	BRL (<1.66)	**1,180**	BRL (<1.66)	BRL (<1.66)
M&A-114	Shallow (LNAPL)	5/17/2004	BRL (< 0.05)	BRL (< 0.05)	BRL (< 0.05)	BRL (< 0.05)	**1.72**	BRL (< 0.05)	BRL (< 0.05)
		4/17/2006	BRL (< 0.128)	BRL (< 0.128)	BRL (< 0.128)	BRL (< 0.128)	**41.4**	BRL (< 0.128)	BRL (< 0.128)
		10/19/2006	BRL (< 0.0326)	BRL (< 0.0326)	BRL (< 0.0326)	BRL (< 0.0326)	BRL (< 0.0326)	BRL (< 0.0326)	BRL (< 0.0326)
		5/2/2007	BRL (<0.162)	BRL (<0.162)	BRL (<0.162)	BRL (<0.162)	**36.8**	BRL (<0.162)	BRL (<0.162)
		10/17/2007	BRL (<0.135)	BRL (<0.135)	BRL (<0.135)	BRL (<0.135)	**53.5**	BRL (<0.135)	BRL (<0.135)
		4/16/2008	BRL (<0.133)	BRL (<0.133)	BRL (<0.133)	BRL (<0.133)	**36**	BRL (<0.133)	BRL (<0.133)
		10/22/2008	BRL (<0.132)	BRL (<0.132)	BRL (<0.132)	BRL (<0.132)	**21.3**	BRL (<0.132)	BRL (<0.132)
		4/7/2009	BRL (<0.131)	BRL (<0.131)	BRL (<0.131)	**28.8**	BRL (<0.131)	BRL (<0.131)	BRL (<0.131)
		10/21/2009(1)	NS	NS	NS	NS	NS	NS	NS
M&A-301	Shallow (LNAPL)	5/17/2004	BRL (< 0.5)	BRL (< 0.5)	BRL (< 0.5)	BRL (< 0.5)	**0.67**	BRL (< 0.5)	BRL (< 0.5)
		4/19/2006 to 10/22/2010 (1)	**NAPL absent. No Further Remediation Status Granted by IEPA and filed at Cook County Recorder of Deeds 07/08/2010.**						
MCA-2	Shallow (LNAPL)	5/17/2004	NS	NS	NS	NS	NS	NS	NS
		4/17/2006	BRL (< 0.132)	BRL (< 0.132)	BRL (< 0.132)	BRL (< 0.132)	BRL (< 0.132)	BRL (< 0.132)	BRL (< 0.132)
		10/19/2006	BRL (< 0.032)	BRL (< 0.032)	BRL (< 0.032)	BRL (< 0.032)	BRL (< 0.032)	BRL (< 0.032)	BRL (< 0.032)
		5/2/2007 to 10/22/2009(1)	**NAPL Absent. No Further Remediation Status Granted by IEPA and filed at Cook County Recorder of Deeds 09/23/2009.**						

Notes:
mg/kg - milligrams per kilogram.
PCB analysis performed via EPA Method 8082
NS - Not sampled
BOLD values indicate compound was detected
(1) Not sampled, no product present

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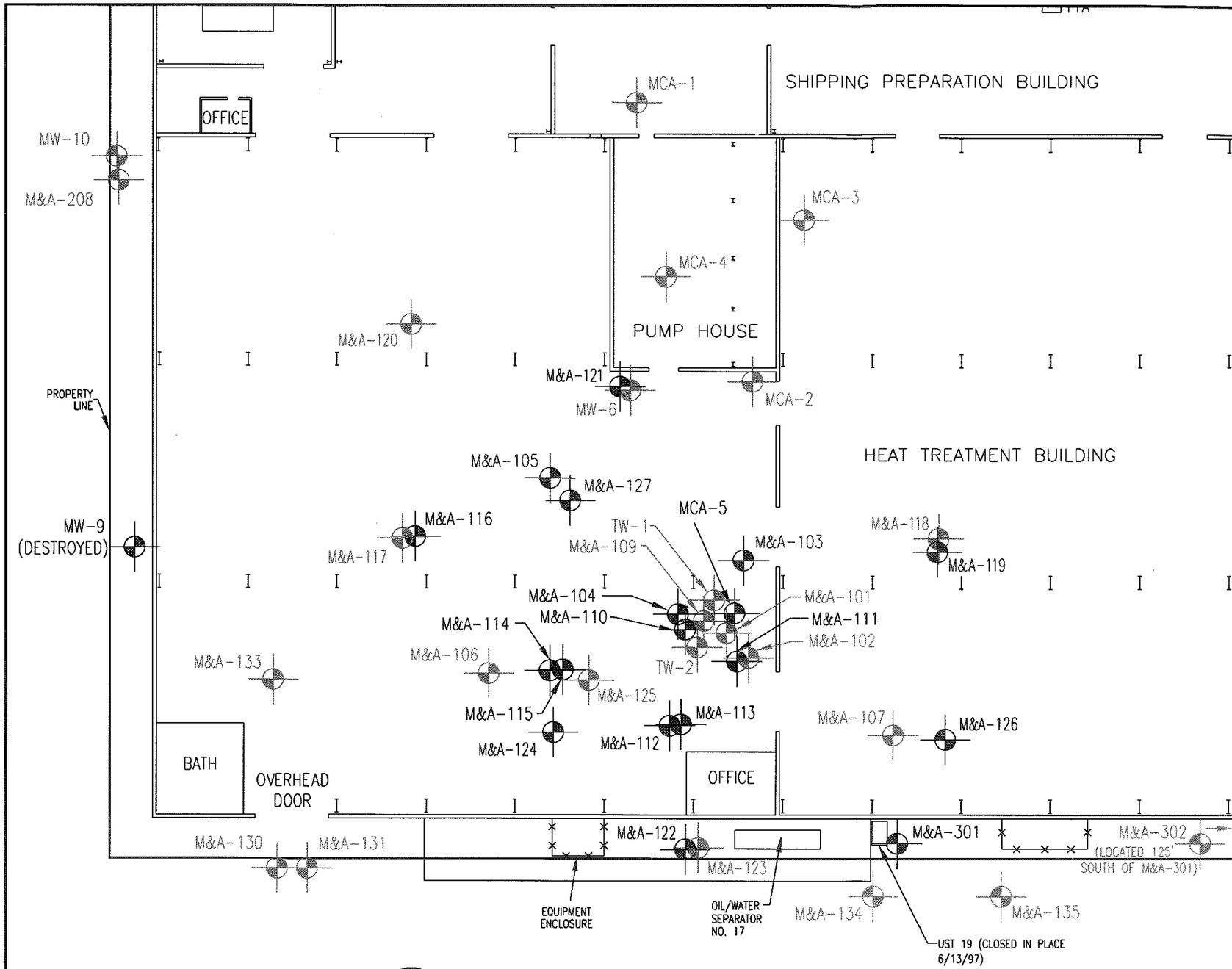
BODYCOTE THERMAL PROCESSING, INC.
MELROSE PARK, ILLINOIS

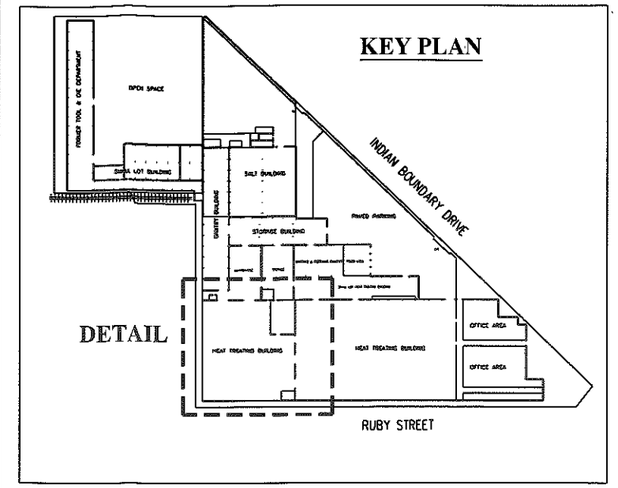
Mabbett & Associates
Environmental Consultants & Engineers

SITE LOCUS

DWG. NO. L-1

DRAWN DJA | APPROVED | SCALE NTS | PROJ. NO. 1998002.304





NOTES:

1. MONITORING WELL AND BORING LOCATIONS INSTALLED PRIOR TO 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY M&A PERSONNEL.
2. MONITORING WELL AND BORING LOCATIONS INSTALLED DURING AND AFTER 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY AN ILLINOIS REGISTERED LAND SURVEYOR.

LEGEND:

- MONITORING WELL LOCATION
- CLOSED IN PLACE (DECEMBER 2008)
- CLOSED IN PLACE (MARCH-APRIL 2011)
- APPROXIMATE PROPERTY LINE
- CHAIN LINK FENCE
- SUPPORTING COLUMN

SCALE:

0' 30' 60' 90'

BODYCOTE THERMAL PROCESSING, INC.

MELROSE PARK, ILLINOIS

NO.	DATE	DESCRIPTION	DRN	CHK	APP
1	11/17/11	FOR REGULATORY USE ONLY	DJA	CLM	CLM

REVISION

Copyright, 2011
Mabbett & Associates, Inc

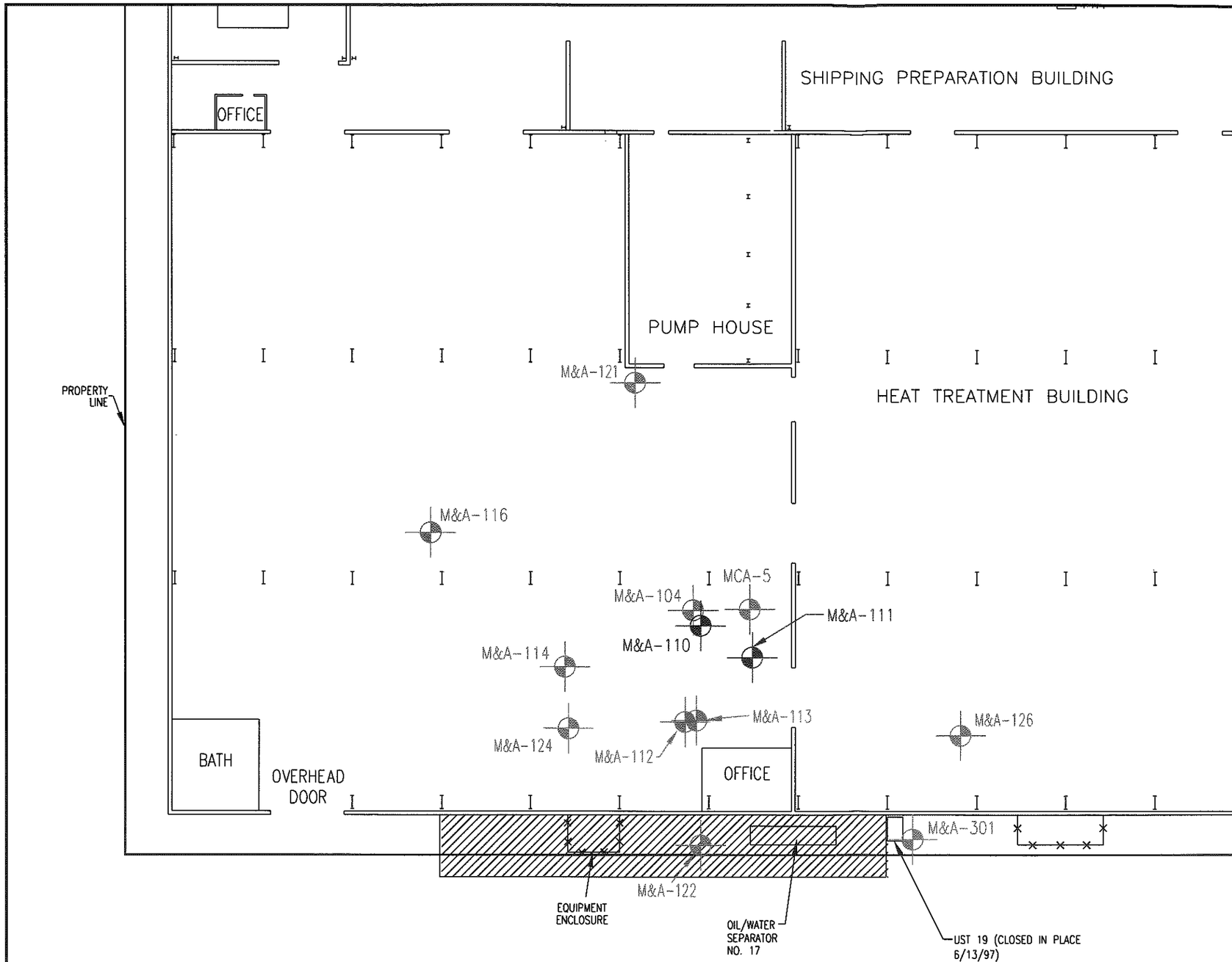
Mabbett & Associates
Environmental Consultants & Engineers

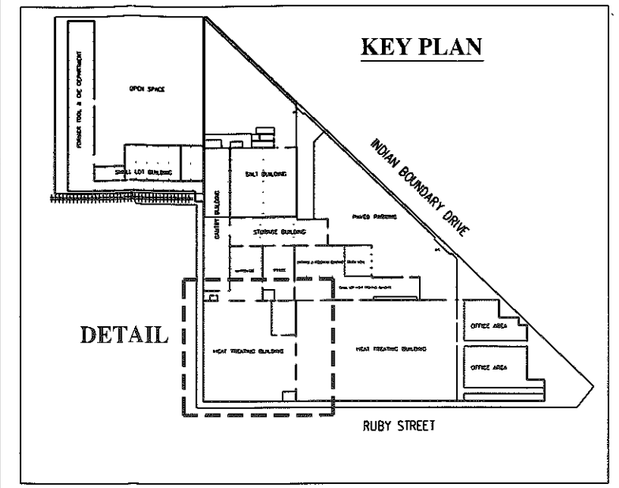
HEAT TREATMENT BUILDING MONITORING WELL LOCATIONS PLAN

DWG. NO. L-2

DRAWN DJA | APPROVED CLM | SCALE 1"=30'-0" | PROJ. NO. 1998002.304

C:\Users\cb\appdata\local\temp\AcPublish_8056\1998002-304-L2 HTB Site_Well_Boring Plan.dwg - L-1 Plan - Dec. 07, 2011 10:14am - cb





NOTES:

1. MONITORING WELL AND BORING LOCATIONS INSTALLED PRIOR TO 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY M&A PERSONNEL.
2. MONITORING WELL AND BORING LOCATIONS INSTALLED DURING AND AFTER 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY AN ILLINOIS REGISTERED LAND SURVEYOR.

LEGEND:

- MONITORING WELL LOCATION
- PCBs NOT DETECTED IN GROUNDWATER AT CONCENTRATIONS ABOVE THE LABORATORY METHOD REPORTING LIMIT OF 0.5 ug/L
- PCBs DETECTED IN GROUNDWATER AT CONCENTRATIONS ABOVE 0.5 ug/L BUT BELOW THE IEPA GRO OF 2.5 ug/L
- PCBs DETECTED IN GROUNDWATER ABOVE THE IEPA GRO OF 2.5 ug/L
- APPROXIMATE PROPERTY LINE
- CHAIN LINK FENCE
- SUPPORTING COLUMN
- ENGINEERED BARRIER: CONCRETE SLAB

SCALE:

0' 30' 60' 90'

BODYCOTE THERMAL PROCESSING, INC.

MELROSE PARK, ILLINOIS

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Mabbett & Associates, Inc

NO.	DATE	DESCRIPTION	DRN	CHK	APP
		REVISION			

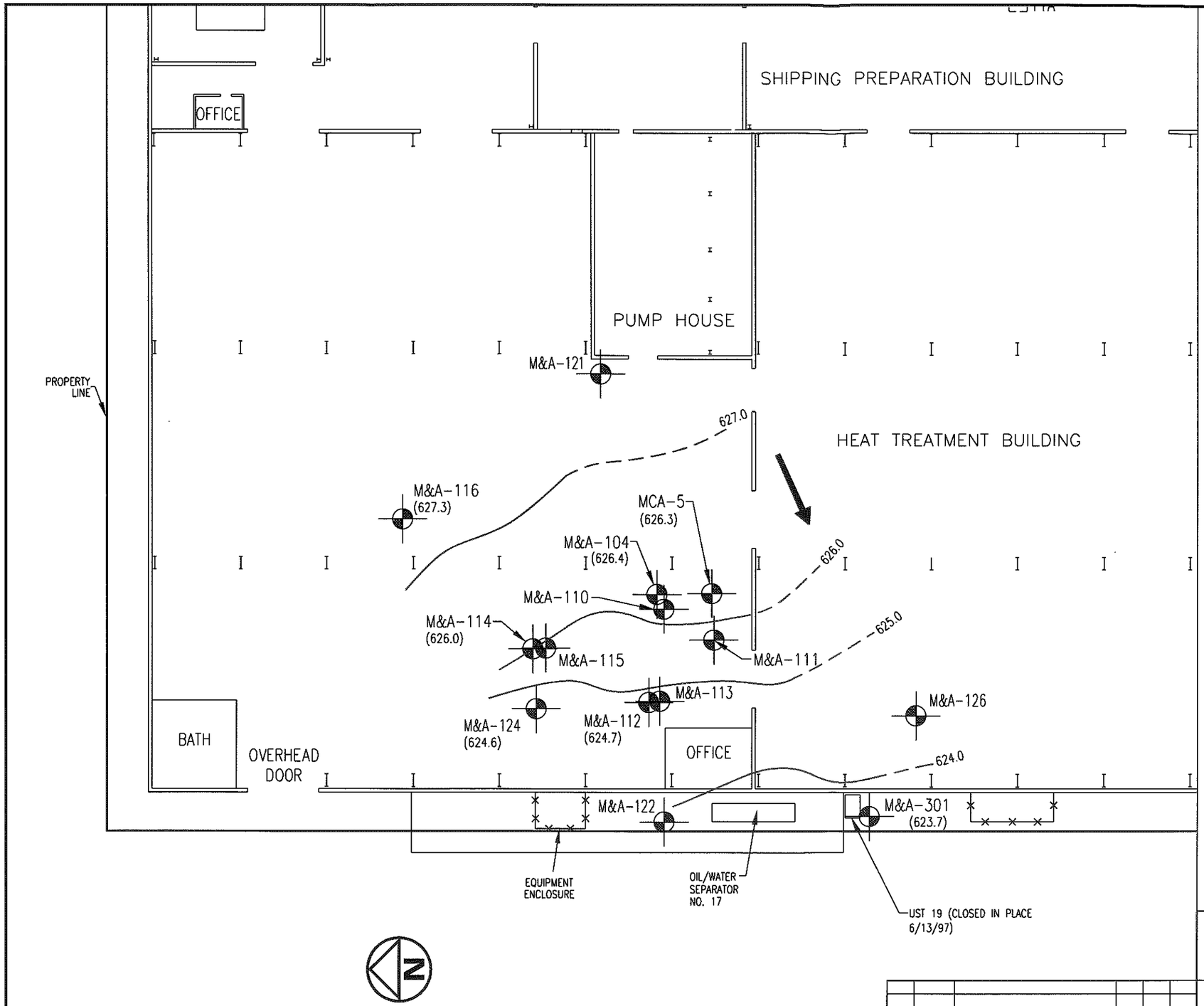
Mabbett & Associates
Environmental Consultants & Engineers

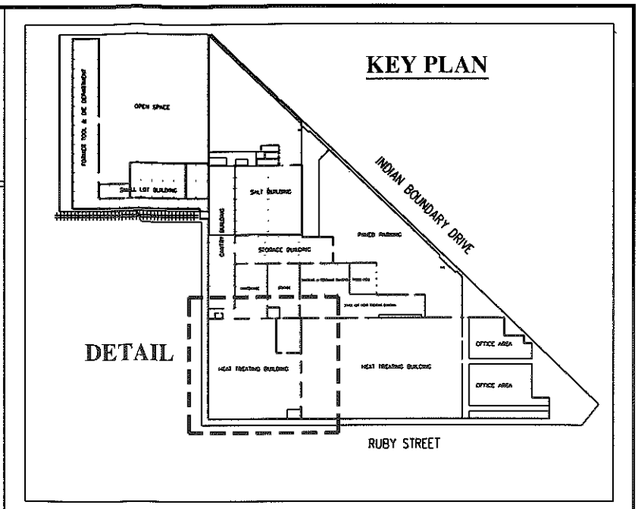
HEAT TREATMENT BUILDING
OCTOBER 2011
GROUNDWATER SAMPLING EVENT

DWG. NO. L-3

DRAWN CB | APPROVED | SCALE 1"=30'-0" | PROJ. NO. 1998002.304

S:\CADD\WORK\Bodycote\1998002.304\1998002-304-L3 PCB 2008 Contours.dwg - L-3 Plan - Dec. 07, 2011 10:14am - cb





NOTES:

1. MONITORING WELL AND BORING LOCATIONS INSTALLED PRIOR TO 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY M&A PERSONNEL.
2. MONITORING WELL AND BORING LOCATIONS INSTALLED DURING AND AFTER 1997 ARE BASED ON FIELD MEASUREMENTS TAKEN BY AN ILLINOIS REGISTERED LAND SURVEYOR.

LEGEND:

- MONITORING WELL LOCATION
- (630.5') GROUNDWATER ELEVATION, IN RESPECT TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD)
- APPROXIMATE PROPERTY LINE
- SUPPORTING COLUMN
- 1.0 FT. SHALLOW GROUNDWATER CONTOURS (OCTOBER 2011)
- CHAIN LINK FENCE
- GROUNDWATER FLOW DIRECTION (OCTOBER 2011)

SCALE:
0' 30' 60' 90'

BODYCOTE THERMAL PROCESSING, INC.

MELROSE PARK, ILLINOIS

NO.	DATE	DESCRIPTION	DRN	CHK	APP
1	11/17/11	FOR REGULATORY USE ONLY	DJA	CLM	CLM

REVISION

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Mabbett & Associates
Environmental Consultants & Engineers

HEAT TREATMENT BUILDING SHALLOW GROUNDWATER ELEVATIONS CONTOUR PLAN (OCTOBER 2011)

DWG. NO. L-4

DRAWN DJA | APPROVED CLM | SCALE 1"=30'-0" | PROJ. NO. 1998002.304

C:\Users\cb\appdata\local\temp\AcPublish_8056\1998002-304-L4 HTB Shallow_GW_Elevations Plan.dwg - L-2 Plan - Dec. 07, 2011 10:14am - cb

APPENDIX A

Laboratory Analytical Results

April and October 2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUD3663
Client Project/Site: 1998002.291
Client Project Description: Bodycote 1998002.291

For:
Mabbett & Associates, Inc. (10615)
5 Alfred Circle
Bedford, MA 01730

Attn: Christopher Mabbett

Authorized for release by:
05/05/2011 01:14:13 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 18
QC Association 19
Chronicle 20
Method Summary 23
Certification Summary 24
Chain of Custody 25

Sample Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUD3663-01	MCA-5-042011	Ground Water	04/20/11 12:00	04/22/11 08:30
NUD3663-02	M&A-110-042011	Ground Water	04/20/11 11:20	04/22/11 08:30
NUD3663-03	M&A-111-042011	Ground Water	04/20/11 13:30	04/22/11 08:30
NUD3663-04	M&A-112-042011	Ground Water	04/20/11 16:40	04/22/11 08:30
NUD3663-05	M&A-113-042011	Ground Water	04/20/11 17:30	04/22/11 08:30
NUD3663-06	M&A-114-042011	Ground Water	04/20/11 10:00	04/22/11 08:30
NUD3663-07	M&A-116-042011	Ground Water	04/20/11 06:30	04/22/11 08:30
NUD3663-08	M&A-121-042011	Ground Water	04/20/11 18:00	04/22/11 08:30
NUD3663-09	M&A-122-042011	Ground Water	04/20/11 16:00	04/22/11 08:30
NUD3663-10	M&A-124-042011	Ground Water	04/20/11 07:15	04/22/11 08:30
NUD3663-11	M&A-126-042011	Ground Water	04/20/11 14:15	04/22/11 08:30
NUD3663-12	M&A-301-042011	Ground Water	04/20/11 15:15	04/22/11 08:30
NUD3663-13	M&A-104-042011	Ground Water	04/20/11 10:45	04/22/11 08:30

Qualifier Definition/Glossary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Qualifiers

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

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.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: MCA-5-042011
Date Collected: 04/20/11 12:00
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-01
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1221	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1232	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1242	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1248	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1254	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00
PCB-1260	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:04	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*80*		*17 - 142*	*04/27/11 06:15*	*04/30/11 17:04*	*1.00*
Decachlorobiphenyl	*36*		*10 - 149*	*04/27/11 06:15*	*04/30/11 17:04*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-110-042011
Date Collected: 04/20/11 11:20
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-02
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1221	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1232	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1242	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1248	**1.98**		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1254	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00
PCB-1260	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:26	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*91*		*17 - 142*	*04/27/11 06:15*	*04/30/11 17:26*	*1.00*
Decachlorobiphenyl	*54*		*10 - 149*	*04/27/11 06:15*	*04/30/11 17:26*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-111-042011
Date Collected: 04/20/11 13:30
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-03
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1221	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1232	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1242	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1248	2.35		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1254	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00
PCB-1260	ND		0.556		ug/L		04/27/11 06:15	04/30/11 17:48	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*85*		*17 - 142*	*04/27/11 06:15*	*04/30/11 17:48*	*1.00*
Decachlorobiphenyl	*87*		*10 - 149*	*04/27/11 06:15*	*04/30/11 17:48*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-112-042011
Date Collected: 04/20/11 16:40
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-04
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1221	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1232	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1242	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1248	**4.15**		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1254	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00
PCB-1260	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:09	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*04/27/11 06:15*	*04/30/11 18:09*	*1.00*
Decachlorobiphenyl	*48*		*10 - 149*	*04/27/11 06:15*	*04/30/11 18:09*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-113-042011
Date Collected: 04/20/11 17:30
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-05
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1221	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1232	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1242	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1248	10.2		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1254	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00
PCB-1260	ND		0.526		ug/L		04/27/11 06:15	04/30/11 18:31	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*82*		*17 - 142*	*04/27/11 06:15*	*04/30/11 18:31*	*1.00*
Decachlorobiphenyl	*81*		*10 - 149*	*04/27/11 06:15*	*04/30/11 18:31*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-114-042011
Date Collected: 04/20/11 10:00
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-06
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1221	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1232	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1242	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1248	**2.13**		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1254	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00
PCB-1260	ND		0.485		ug/L		04/27/11 06:15	04/30/11 18:53	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*73*		*17 - 142*	*04/27/11 06:15*	*04/30/11 18:53*	*1.00*
Decachlorobiphenyl	*28*		*10 - 149*	*04/27/11 06:15*	*04/30/11 18:53*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-116-042011
Date Collected: 04/20/11 06:30
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-07
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1221	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1232	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1242	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1248	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1254	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00
PCB-1260	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:14	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*04/27/11 06:15*	*04/30/11 19:14*	*1.00*
Decachlorobiphenyl	*74*		*10 - 149*	*04/27/11 06:15*	*04/30/11 19:14*	*1.00*

Client Sample ID: M&A-121-042011
Date Collected: 04/20/11 18:00
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-08
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1221	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1232	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1242	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1248	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1254	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00
PCB-1260	ND		0.526		ug/L		04/27/11 06:15	04/30/11 19:36	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*04/27/11 06:15*	*04/30/11 19:36*	*1.00*
Decachlorobiphenyl	*52*		*10 - 149*	*04/27/11 06:15*	*04/30/11 19:36*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-122-042011
Date Collected: 04/20/11 16:00
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-09
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1221	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1232	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1242	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1248	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1254	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00
PCB-1260	ND		0.500		ug/L		04/27/11 06:15	04/30/11 19:58	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*90*		*17 - 142*	*04/27/11 06:15*	*04/30/11 19:58*	*1.00*
Decachlorobiphenyl	*91*		*10 - 149*	*04/27/11 06:15*	*04/30/11 19:58*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-124-042011
Date Collected: 04/20/11 07:15
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-10
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1221	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1232	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1242	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1248	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1254	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00
PCB-1260	ND		0.588		ug/L		04/27/11 06:15	04/30/11 20:19	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*04/27/11 06:15*	*04/30/11 20:19*	*1.00*
Decachlorobiphenyl	*97*		*10 - 149*	*04/27/11 06:15*	*04/30/11 20:19*	*1.00*

Client Sample ID: M&A-126-042011
Date Collected: 04/20/11 14:15
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-11
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1221	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1232	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1242	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1248	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1254	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00
PCB-1260	ND		0.513		ug/L		04/27/11 06:15	04/30/11 20:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*81*		*17 - 142*	*04/27/11 06:15*	*04/30/11 20:41*	*1.00*
Decachlorobiphenyl	*71*		*10 - 149*	*04/27/11 06:15*	*04/30/11 20:41*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-301-042011
Date Collected: 04/20/11 15:15
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-12
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1221	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1232	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1242	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1248	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1254	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00
PCB-1260	ND		0.500		ug/L		04/27/11 06:15	04/30/11 21:02	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*78*		*17 - 142*	*04/27/11 06:15*	*04/30/11 21:02*	*1.00*
Decachlorobiphenyl	*57*		*10 - 149*	*04/27/11 06:15*	*04/30/11 21:02*	*1.00*

Analytical Data

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-104-042011
Date Collected: 04/20/11 10:45
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-13
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1221	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1232	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1242	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1248	0.911		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1254	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00
PCB-1260	ND		0.556		ug/L		04/27/11 06:15	04/30/11 21:24	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*78*		*17 - 142*	*04/27/11 06:15*	*04/30/11 21:24*	*1.00*
Decachlorobiphenyl	*78*		*10 - 149*	*04/27/11 06:15*	*04/30/11 21:24*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11D5867-BLK1
Matrix: Water
Analysis Batch: U007301

Client Sample ID: 11D5867-BLK1
Prep Type: Total
Prep Batch: 11D5867_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1221	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1232	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1242	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1248	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1254	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00
PCB-1260	ND		0.500		ug/L		04/27/11 06:15	04/30/11 16:21	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*84*		*17 - 142*	*04/27/11 06:15*	*04/30/11 16:21*	*1.00*
Decachlorobiphenyl	*98*		*10 - 149*	*04/27/11 06:15*	*04/30/11 16:21*	*1.00*

Lab Sample ID: 11D5867-BS1
Matrix: Water
Analysis Batch: U007301

Client Sample ID: 11D5867-BS1
Prep Type: Total
Prep Batch: 11D5867_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1248	5.00	4.86	MNR1	ug/L		97	54 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*83*		*17 - 142*
Decachlorobiphenyl	*94*		*10 - 149*

QC Association Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Pesticides

Prep Batch: 11D5867_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11D5867-BLK1	11D5867-BLK1	Total	Water	EPA 3510C/3665A	
11D5867-BS1	11D5867-BS1	Total	Water	EPA 3510C/3665A	
NUD3663-01	MCA-5-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-02	M&A-110-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-03	M&A-111-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-04	M&A-112-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-05	M&A-113-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-06	M&A-114-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-07	M&A-116-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-08	M&A-121-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-09	M&A-122-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-10	M&A-124-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-11	M&A-126-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-12	M&A-301-042011	Total	Ground Water	EPA 3510C/3665A	
NUD3663-13	M&A-104-042011	Total	Ground Water	EPA 3510C/3665A	

Analysis Batch: U007301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11D5867-BLK1	11D5867-BLK1	Total	Water	SW846 8082A	11D5867_P
11D5867-BS1	11D5867-BS1	Total	Water	SW846 8082A	11D5867_P
NUD3663-01	MCA-5-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-02	M&A-110-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-03	M&A-111-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-04	M&A-112-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-05	M&A-113-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-06	M&A-114-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-07	M&A-116-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-08	M&A-121-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-09	M&A-122-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-10	M&A-124-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-11	M&A-126-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-12	M&A-301-042011	Total	Ground Water	SW846 8082A	11D5867_P
NUD3663-13	M&A-104-042011	Total	Ground Water	SW846 8082A	11D5867_P

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: MCA-5-042011 — Lab Sample ID: NUD3663-01

Date Collected: 04/20/11 12:00
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.11	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 17:04	RMC	TestAmerica Nashville

Client Sample ID: M&A-110-042011 — Lab Sample ID: NUD3663-02

Date Collected: 04/20/11 11:20
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.11	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 17:26	RMC	TestAmerica Nashville

Client Sample ID: M&A-111-042011 — Lab Sample ID: NUD3663-03

Date Collected: 04/20/11 13:30
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.11	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 17:48	RMC	TestAmerica Nashville

Client Sample ID: M&A-112-042011 — Lab Sample ID: NUD3663-04

Date Collected: 04/20/11 16:40
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.05	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 18:09	RMC	TestAmerica Nashville

Client Sample ID: M&A-113-042011 — Lab Sample ID: NUD3663-05

Date Collected: 04/20/11 17:30
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.05	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 18:31	RMC	TestAmerica Nashville

Client Sample ID: M&A-114-042011 — Lab Sample ID: NUD3663-06

Date Collected: 04/20/11 10:00
Date Received: 04/22/11 08:30
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.971	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 18:53	RMC	TestAmerica Nashville

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-116-042011 — **Lab Sample ID: NUD3663-07**
Date Collected: 04/20/11 06:30 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 19:14	RMC	TestAmerica Nashville

Client Sample ID: M&A-121-042011 — **Lab Sample ID: NUD3663-08**
Date Collected: 04/20/11 18:00 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.05	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 19:36	RMC	TestAmerica Nashville

Client Sample ID: M&A-122-042011 — **Lab Sample ID: NUD3663-09**
Date Collected: 04/20/11 16:00 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 19:58	RMC	TestAmerica Nashville

Client Sample ID: M&A-124-042011 — **Lab Sample ID: NUD3663-10**
Date Collected: 04/20/11 07:15 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.18	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 20:19	RMC	TestAmerica Nashville

Client Sample ID: M&A-126-042011 — **Lab Sample ID: NUD3663-11**
Date Collected: 04/20/11 14:15 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.03	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 20:41	RMC	TestAmerica Nashville

Client Sample ID: M&A-301-042011 — **Lab Sample ID: NUD3663-12**
Date Collected: 04/20/11 15:15 — **Matrix: Ground Water**
Date Received: 04/22/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 21:02	RMC	TestAmerica Nashville

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Client Sample ID: M&A-104-042011
Date Collected: 04/20/11 10:45
Date Received: 04/22/11 08:30

Lab Sample ID: NUD3663-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.11	11D5867_P	04/27/11 06:15	MAH	TestAmerica Nashville
Total	Analysis	SW846 8082A		1.00	U007301	04/30/11 21:24	RMC	TestAmerica Nashville

8

Method Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Method	Method Description	Protocol	Laboratory
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

9

Certification Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.291

TestAmerica Job ID: NUD3663

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		AIHA		100790
TestAmerica Nashville		USDA		S-48469
TestAmerica Nashville	A2LA	A2LA	0	0453.07
TestAmerica Nashville	A2LA	WY UST	0	453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA	0	3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEI

NUD3663

Cooler Received/Opened On 4/22/2011@ 8:30

1. Tracking # 5097 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 5.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) [illegible]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) [illegible]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) [illegible]

I certify that I attached a label with the unique LIMS number to each container (intial) [illegible]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 6/24/09

05/05/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

NUD3663

05/06/11 23:59

Cooler Received/Opened On: 4/22/2011 @ 8:30

Shipped: Fed-Ex Tracking number 5086

IR Gun ID: 14740456

1. Temperature of rep. sample or temp blank when opened: 5.9 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 2 Front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # N/A

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 6/24/09

05/05/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

NUD3663

05/06/11 23:59

Cooler Received/Opened On: 4/22/2011 @ 8:30

Shipped: Fed-Ex Tracking number 5075

IR Gun ID: 14740456

1. Temperature of rep. sample or temp blank when opened: 2.0 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 2 Front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # N/A

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) N

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) N

I certify that I attached a label with the unique LIMS number to each container (intial) N

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 6/24/09

05/05/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
","Reg District (CA)")

Client: Mabbett & Associates, Inc. (10615)
Address: 5 Alfred Circle
City, State, Zip: Bedford MA 01730
Client Invoice Contact: Attn: Accounts Payable
Client Project Mgr: Christopher Mabbett
Client Telephone#: (781) 275-6050 Fax: (781) 275-5651
Sampler Name (Print) Chris Mabbett
SamplerSignature: Chris Mabbett

TA Account #: 1408030 PO #: 4690
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.291
Facility ID: 1998002.291
Reg District (CA):
Site Address: 1975 N. Roy Street
City,State,Zip: Melrose Park, Illinois 60160

NUD3663
05/06/11 23:59

	Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	RUSH TAT (Pre Schedule) *
1	MCA-5+042011	4/20/11	1200	2	X		N								X	X						X	
	~~MA-104-042011~~	~~4/20/11~~	~~1045~~	~~2~~	~~X~~		~~N~~								~~X~~	~~X~~						~~X~~	
2	MCA-110-042011	4/20/11	1120	2	X		N								X	X						X	
3	MCA-111-042011	4/20/11	1330	2	X		N								X	X						X	
4	MCA-112-042011	4/20/11	1640	2	X		N								X	X						X	
5	MCA-113-042011	4/20/11	1730	2	X		N								X	X						X	
6	MCA-114-042011	4/20/11	1060	2	X		N								X	X						X	
7	MCA-116-042011	4/20/11	0630	2	X		N								X	X						X	
8	MCA-121-042011	4/20/11	1800	2	X		N								X	X						X	
9	MCA-122-042011	4/20/11	1600	2	X		N								X	X						X	

(CAL)

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 24279
• 4810 3522 5075
• 4810 3522 5086
• 4810 3522 5097
No Temp Blank Included

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	4/21/11	1200						

Shipped Via: FEDEX overnight
Received for TestAmerica by: [signature] Date: 4/22/11 Time: 0630
Shipped Via:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)
Date Due of Report:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
',"Reg District (CA)")

Client: Mabbett & Associates, Inc. (10615)
Address: 5 Alfred Circle
City, State, Zip: Bedford MA 01730
Client Invoice Contact: Attn: Accounts Payable
Client Project Mgr: Christopher Mabbett
Client Telephone#: (781) 275-6050 Fax: (781) 275-5651
Sampler Name (Print) Chris Mabbett
SamplerSignature:

TA Account #: 1408030 PO #: 4690
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.291
Facility ID: 1998002.291
Reg District (CA):
Site Address: 1975 N. Ruby Street
City,State,Zip: Melrose Park Illinois 60160

NUD3663
05/06/11 23:59

	Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs	RUSH TAT (Pre Schedule) *
10	M&A-124-042011	4/20/11	0715	2	X		N								X	X						X	
11	M&A-126-042011	4/20/11	1415	2	X		N								X	X						X	
12	M&A-301-042011	4/20/11	1515	2	X		N								X	X						X	
13	M&A-104-042011	4/20/11	1045	2	X		N								X	X						X	

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 24279

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:

Shipped Via:			Shipped Via:		QC Deliverables (Please Circle One) :	Date Due of Report:
Received for TestAmerica by:	Date: 4/20/11	Time: 0830	Temperature Upon Receipt:	Sample Containers Intact? Y N VOCs Free of Headspace? Y N	Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUJ3353
Client Project/Site: 1998002.304
Client Project Description: Bodycote 1998002.304

For:
Mabbett & Associates, Inc. (10615)
5 Alfred Circle
Bedford, MA 01730

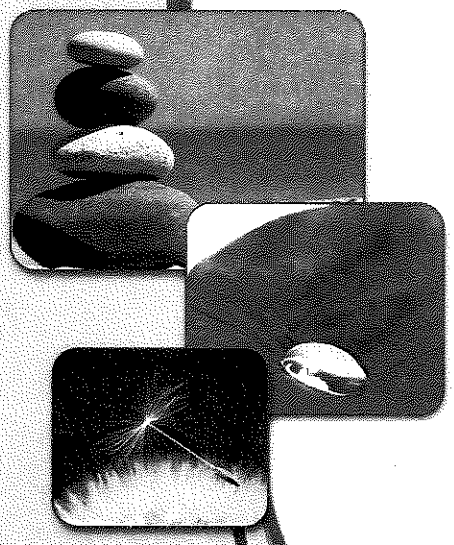
Attn: Christopher Mabbett

Roxanne L. Connor

Authorized for release by:
11/4/2011 3:03:00 PM
Roxanne Connor
Program Manager - Conventional Accounts
roxanne.connor@testamericainc.com

Designee for

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 18
QC Association 20
Chronicle 22
Method Summary 25
Certification Summary 26
Chain of Custody 27

Sample Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUJ3353-01	MCA-5-102511	Ground Water	10/25/11 07:30	10/26/11 07:35
NUJ3353-02	M&A-104-102511	Ground Water	10/25/11 10:15	10/26/11 07:35
NUJ3353-03	M&A-110-102511	Ground Water	10/25/11 08:15	10/26/11 07:35
NUJ3353-04	M&A-111-102511	Ground Water	10/25/11 10:30	10/26/11 07:35
NUJ3353-05	M&A-112-102511	Ground Water	10/25/11 11:00	10/26/11 07:35
NUJ3353-06	M&A-113-102511	Ground Water	10/25/11 13:30	10/26/11 07:35
NUJ3353-07	M&A-114-102411	Ground Water	10/24/11 16:00	10/26/11 07:35
NUJ3353-08	M&A-116-102411	Ground Water	10/24/11 11:30	10/26/11 07:35
NUJ3353-09	M&A-121-102411	Ground Water	10/24/11 09:00	10/26/11 07:35
NUJ3353-10	M&A-122-102511	Ground Water	10/25/11 12:00	10/26/11 07:35
NUJ3353-11	M&A-124-102411	Ground Water	10/24/11 13:00	10/26/11 07:35
NUJ3353-12	M&A-126-102511	Ground Water	10/25/11 09:00	10/26/11 07:35
NUJ3353-13	M&A-301-102511	Ground Water	10/25/11 13:00	10/26/11 07:35

Definitions/Glossary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Qualifiers

Pesticides

Qualifier	Qualifier Description
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: MCA-5-102511
Date Collected: 10/25/11 07:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-01
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1221	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1232	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1242	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1248	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1254	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00
PCB-1260	ND		0.485		ug/L		10/27/11 07:00	10/28/11 18:45	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*85*		*17 - 142*	*10/27/11 07:00*	*10/28/11 18:45*	*1.00*
Decachlorobiphenyl	*57*		*10 - 149*	*10/27/11 07:00*	*10/28/11 18:45*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-104-102511
Date Collected: 10/25/11 10:15
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-02
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1221	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1232	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1242	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1248	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1254	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00
PCB-1260	ND		0.495		ug/L		10/27/11 07:00	10/28/11 19:07	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*10/27/11 07:00*	*10/28/11 19:07*	*1.00*
Decachlorobiphenyl	*102*		*10 - 149*	*10/27/11 07:00*	*10/28/11 19:07*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-110-102511
Date Collected: 10/25/11 08:15
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-03
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1248	2.10		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 09:32	11/02/11 08:46	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*91*		*17 - 142*	*10/27/11 09:32*	*11/02/11 08:46*	*1.00*
Decachlorobiphenyl	*56*		*10 - 149*	*10/27/11 09:32*	*11/02/11 08:46*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-111-102511
Date Collected: 10/25/11 10:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-04
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1221	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1232	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1242	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1248	**1.05**		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1254	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00
PCB-1260	ND		0.495		ug/L		10/27/11 07:00	11/02/11 14:14	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*107*		*17 - 142*	*10/27/11 07:00*	*11/02/11 14:14*	*1.00*
Decachlorobiphenyl	*39*		*10 - 149*	*10/27/11 07:00*	*11/02/11 14:14*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-112-102511
Date Collected: 10/25/11 11:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-05
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1221	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1232	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1242	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1248	4.00		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1254	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00
PCB-1260	ND		0.485		ug/L		10/27/11 07:00	11/02/11 14:36	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*113*		*17 - 142*	*10/27/11 07:00*	*11/02/11 14:36*	*1.00*
Decachlorobiphenyl	*59*		*10 - 149*	*10/27/11 07:00*	*11/02/11 14:36*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-113-102511
Date Collected: 10/25/11 13:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-06
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1221	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1232	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1242	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1248	**90.6**		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1254	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0
PCB-1260	ND		6.25		ug/L		10/27/11 07:00	11/02/11 16:02	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*110*		*17 - 142*	*10/27/11 07:00*	*11/02/11 16:02*	*10.0*
Decachlorobiphenyl	*90*		*10 - 149*	*10/27/11 07:00*	*11/02/11 16:02*	*10.0*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-114-102411
Date Collected: 10/24/11 16:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-07
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1221	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1232	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1242	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1248	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1254	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00
PCB-1260	ND		0.481		ug/L		10/27/11 07:00	10/28/11 21:19	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*87*		*17 - 142*	*10/27/11 07:00*	*10/28/11 21:19*	*1.00*
Decachlorobiphenyl	*68*		*10 - 149*	*10/27/11 07:00*	*10/28/11 21:19*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-116-102411
Date Collected: 10/24/11 11:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-08
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1248	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 09:32	11/02/11 06:57	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*100*		*17 - 142*	*10/27/11 09:32*	*11/02/11 06:57*	*1.00*
Decachlorobiphenyl	*97*		*10 - 149*	*10/27/11 09:32*	*11/02/11 06:57*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-121-102411
Date Collected: 10/24/11 09:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-09
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1248	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 09:32	11/02/11 07:19	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*106*		*17 - 142*	*10/27/11 09:32*	*11/02/11 07:19*	*1.00*
Decachlorobiphenyl	*93*		*10 - 149*	*10/27/11 09:32*	*11/02/11 07:19*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-122-102511
Date Collected: 10/25/11 12:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-10
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1221	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1232	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1242	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1248	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1254	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00
PCB-1260	ND		0.588		ug/L		10/27/11 07:00	10/28/11 21:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*90*		*17 - 142*	*10/27/11 07:00*	*10/28/11 21:41*	*1.00*
Decachlorobiphenyl	*110*		*10 - 149*	*10/27/11 07:00*	*10/28/11 21:41*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-124-102411
Date Collected: 10/24/11 13:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-11
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1221	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1232	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1242	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1248	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1254	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00
PCB-1260	ND		0.490		ug/L		10/27/11 09:32	11/02/11 07:41	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*105*		*17 - 142*	*10/27/11 09:32*	*11/02/11 07:41*	*1.00*
Decachlorobiphenyl	*94*		*10 - 149*	*10/27/11 09:32*	*11/02/11 07:41*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-126-102511
Date Collected: 10/25/11 09:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-12
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1221	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1232	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1242	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1248	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1254	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00
PCB-1260	ND		0.588		ug/L		10/27/11 07:00	10/28/11 22:02	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*90*		*17 - 142*	*10/27/11 07:00*	*10/28/11 22:02*	*1.00*
Decachlorobiphenyl	*91*		*10 - 149*	*10/27/11 07:00*	*10/28/11 22:02*	*1.00*

Client Sample Results

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-301-102511
Date Collected: 10/25/11 13:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-13
Matrix: Ground Water

5

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1248	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 09:32	10/29/11 13:46	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*85*		*17 - 142*	*10/27/11 09:32*	*10/29/11 13:46*	*1.00*
Decachlorobiphenyl	*59*		*10 - 149*	*10/27/11 09:32*	*10/29/11 13:46*	*1.00*

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A

Lab Sample ID: 11J6261-BLK1
Matrix: Water
Analysis Batch: U018937

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6261_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1248	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 07:00	10/28/11 18:01	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*76*		*17 - 142*	*10/27/11 07:00*	*10/28/11 18:01*	*1.00*
Decachlorobiphenyl	*109*		*10 - 149*	*10/27/11 07:00*	*10/28/11 18:01*	*1.00*

Lab Sample ID: 11J6261-BS1
Matrix: Water
Analysis Batch: U018937

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6261_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1254	5.00	4.89	MNR1	ug/L		98	11 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*82*		*17 - 142*
Decachlorobiphenyl	*99*		*10 - 149*

Lab Sample ID: 11J6331-BLK1
Matrix: Water
Analysis Batch: U019232

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6331_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1221	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1232	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1242	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1248	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1254	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00
PCB-1260	ND		0.500		ug/L		10/27/11 09:32	11/02/11 05:52	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-meta-xylene	*91*		*17 - 142*	*10/27/11 09:32*	*11/02/11 05:52*	*1.00*
Decachlorobiphenyl	*91*		*10 - 149*	*10/27/11 09:32*	*11/02/11 05:52*	*1.00*

Lab Sample ID: 11J6331-BS1
Matrix: Water
Analysis Batch: U019232

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6331_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1254	5.00	5.81	MNR1	ug/L		116	11 - 150

Method: SW846 8082A - Polychlorinated Biphenyls by EPA Method 8082A (Continued)

Lab Sample ID: 11J6331-BS1
Matrix: Water
Analysis Batch: U019232

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6331_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-meta-xylene	*94*		*17 - 142*
Decachlorobiphenyl	*95*		*10 - 149*

6

QC Association Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Pesticides

Analysis Batch: U018937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6261-BLK1	Method Blank	Total	Water	SW846 8082A	11J6261_P
11J6261-BS1	Lab Control Sample	Total	Water	SW846 8082A	11J6261_P
NUJ3353-01	MCA-5-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-02	M&A-104-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-07	M&A-114-102411	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-10	M&A-122-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-12	M&A-126-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-13	M&A-301-102511	Total	Ground Water	SW846 8082A	11J6331_P

Analysis Batch: U019232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6331-BLK1	Method Blank	Total	Water	SW846 8082A	11J6331_P
11J6331-BS1	Lab Control Sample	Total	Water	SW846 8082A	11J6331_P
NUJ3353-03	M&A-110-102511	Total	Ground Water	SW846 8082A	11J6331_P
NUJ3353-08	M&A-116-102411	Total	Ground Water	SW846 8082A	11J6331_P
NUJ3353-09	M&A-121-102411	Total	Ground Water	SW846 8082A	11J6331_P
NUJ3353-11	M&A-124-102411	Total	Ground Water	SW846 8082A	11J6331_P

Analysis Batch: U019297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUJ3353-04	M&A-111-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-05	M&A-112-102511	Total	Ground Water	SW846 8082A	11J6261_P
NUJ3353-06	M&A-113-102511	Total	Ground Water	SW846 8082A	11J6261_P

Prep Batch: 11J6261_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6261-BLK1	Method Blank	Total	Water	EPA 3510C/3665A	
11J6261-BS1	Lab Control Sample	Total	Water	EPA 3510C/3665A	
NUJ3353-01	MCA-5-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-02	M&A-104-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-04	M&A-111-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-05	M&A-112-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-06	M&A-113-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-07	M&A-114-102411	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-10	M&A-122-102511	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-12	M&A-126-102511	Total	Ground Water	EPA 3510C/3665A	

Prep Batch: 11J6331_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6331-BLK1	Method Blank	Total	Water	EPA 3510C/3665A	
11J6331-BS1	Lab Control Sample	Total	Water	EPA 3510C/3665A	
NUJ3353-03	M&A-110-102511	Total	Ground Water	EPA 3510C/3665A	

QC Association Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Pesticides (Continued)

Prep Batch: 11J6331_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUJ3353-08	M&A-116-102411	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-09	M&A-121-102411	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-11	M&A-124-102411	Total	Ground Water	EPA 3510C/3665A	
NUJ3353-13	M&A-301-102511	Total	Ground Water	EPA 3510C/3665A	

7

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: MCA-5-102511

Lab Sample ID: NUJ3353-01
Matrix: Ground Water

Date Collected: 10/25/11 07:30
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.971	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/28/11 18:45	RMC	TAL NSH

Client Sample ID: M&A-104-102511

Lab Sample ID: NUJ3353-02
Matrix: Ground Water

Date Collected: 10/25/11 10:15
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.990	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/28/11 19:07	RMC	TAL NSH

Client Sample ID: M&A-110-102511

Lab Sample ID: NUJ3353-03
Matrix: Ground Water

Date Collected: 10/25/11 08:15
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11J6331_P	10/27/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019232	11/02/11 08:46	RMC	TAL NSH

Client Sample ID: M&A-111-102511

Lab Sample ID: NUJ3353-04
Matrix: Ground Water

Date Collected: 10/25/11 10:30
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.990	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019297	11/02/11 14:14	RMC	TAL NSH

Client Sample ID: M&A-112-102511

Lab Sample ID: NUJ3353-05
Matrix: Ground Water

Date Collected: 10/25/11 11:00
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.971	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019297	11/02/11 14:36	RMC	TAL NSH

Client Sample ID: M&A-113-102511

Lab Sample ID: NUJ3353-06
Matrix: Ground Water

Date Collected: 10/25/11 13:30
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.25	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		10.0	U019297	11/02/11 16:02	RMC	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-114-102411

Lab Sample ID: NUJ3353-07
Date Collected: 10/24/11 16:00
Matrix: Ground Water
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.962	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/28/11 21:19	RMC	TAL NSH

Client Sample ID: M&A-116-102411

Lab Sample ID: NUJ3353-08
Date Collected: 10/24/11 11:30
Matrix: Ground Water
Date Received: 10/26/11 07:35

8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11J6331_P	10/27/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019232	11/02/11 06:57	RMC	TAL NSH

Client Sample ID: M&A-121-102411

Lab Sample ID: NUJ3353-09
Date Collected: 10/24/11 09:00
Matrix: Ground Water
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11J6331_P	10/27/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019232	11/02/11 07:19	RMC	TAL NSH

Client Sample ID: M&A-122-102511

Lab Sample ID: NUJ3353-10
Date Collected: 10/25/11 12:00
Matrix: Ground Water
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.18	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/28/11 21:41	RMC	TAL NSH

Client Sample ID: M&A-124-102411

Lab Sample ID: NUJ3353-11
Date Collected: 10/24/11 13:00
Matrix: Ground Water
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		0.980	11J6331_P	10/27/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U019232	11/02/11 07:41	RMC	TAL NSH

Client Sample ID: M&A-126-102511

Lab Sample ID: NUJ3353-12
Date Collected: 10/25/11 09:00
Matrix: Ground Water
Date Received: 10/26/11 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.18	11J6261_P	10/27/11 07:00	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/28/11 22:02	RMC	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Client Sample ID: M&A-301-102511
Date Collected: 10/25/11 13:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3353-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510C/3665A		1.00	11J6331_P	10/27/11 09:32	JJR	TAL NSH
Total	Analysis	SW846 8082A		1.00	U018937	10/29/11 13:46	RMC	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

8

Method Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Method	Method Description	Protocol	Laboratory
SW846 8082A	Polychlorinated Biphenyls by EPA Method 8082A		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

9

Certification Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.304

TestAmerica Job ID: NUJ3353

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT

NUJ3353

Cooler Received/Opened On 10/26/2011 @ 07:35

1. Tracking # 1926 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 12.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front & back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) GB

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None water (w)

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #____

I certify that I unloaded the cooler and answered questions 7-14 (intial) (w)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) (w)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) (w)

I certify that I attached a label with the unique LIMS number to each container (intial) (w)

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 61375

*: Not Enough Ice

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
Revised 6/24/09

11/4/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax: (615) 726-3404
',"Reg District (CA)")

NUJ3353
11/09/11 23:59

Page 1 of 2

11/4/2011

Client: Mabbett & Associates, Inc. (10615)
Address: 5 Alfred Circle
City, State, Zip: Bedford MA 01730
Client Invoice Contact: Attn: Accounts Payable
Client Project Mgr: Christopher Mabbett
Client Telephone#: (781) 275-6050 Fax: (781) 275-5651
Sampler Name (Print): Chris Mabbett
SamplerSignature:

TA Account #: 1408030 PO #: 4729
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.304
Facility ID: 1998002.304
Reg District (CA):
Site Address:
City,State,Zip: Illinois

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs													RUSH TAT (Pre Schedule) *
MCA-5-102511	10/25/11	0730	2	X										X	X						X												NUJ3353-01	
M&A-104-102511	10/24/11	1015	2	X										X	X						X												02	
M&A-110-102511	10/25/11	0815	2	X										X	X						X												03	
M&A-111-102511	10/25/11	1030	2	X										X	X						X												04	
M&A-112-102511	10/25/11	1100	2	X										X	X						X												05	
M&A-113-102511	10/25/11	1330	2	X										X	X						X												06	
M&A-114-102411	10/24/11	1600	2	X										X	X						X												07	
M&A-116-102411	10/24/11	1130	2	X										X	X						X												08	
M&A-121-102411	10/24/11	0900	2	X										X	X						X												09	
M&A-122-102511	10/25/11	1200	2	X										X	X						X												10	

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
*Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: *BO # 27061*

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	10/27/11	1500						

Shipped Via: FedEx 5056 9473 9165 / [illegible] / 1937
Shipped Via:
QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)
Date Due of Report:

Received for TestAmerica by: | Date: 10 26 11 | Time: 0735 | Temperature Upon Receipt: [illegible] | Sample Containers Intact? Y N | VOCs Free of Headspace? Y N

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax: (615) 726-3404
","Reg District (CA)")

NUJ3353
11/09/11 23:59

11/4/2011

Client: Mabbett & Associates, Inc. (10615)
Address: 5 Alfred Circle
City, State, Zip: Bedford MA 01730
Client Invoice Contact: Attn: Accounts Payable
Client Project Mgr: Christopher Mabbett
Client Telephone#: (781) 275-6050 Fax: (781) 275-5651
Sampler Name (Print): Chris Mabbett
SamplerSignature:

TA Account #: 1408030 PO #: 4729
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.304
Facility ID: 1998002.304
Reg District (CA):
Site Address:
City,State,Zip: Illinois

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8082A PCBs														RUSH TAT (Pre Schedule) *
M&A-124-102411	10/24/11	1300	2	X										X	X						X															11
M&A-126-102511	10/25/11	0900	2	X										X	X						X															12
M&A-301-102511	10/25/11	1300	2	X										X	X						X															13

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 27061

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	10/25/11	1500						

Shipped Via:			Shipped Via:		QC Deliverables (Please Circle One):	Date Due of Report:
Received for TestAmerica by:	Date: 10/26/11	Time: 0735	Temperature Upon Receipt:	Sample Containers Intact? Y N VOCs Free of Headspace? Y N	Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

NUJ3353
11/09/11 23:59

COOLER RECEIPT FORM

Cooler Received/Opened On 10/26/2011 @ 07:35

1. Tracking # 1937 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) P.H.

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MW

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MW

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MW

I certify that I attached a label with the unique LIMS number to each container (intial) MW

21. Were there Non-Conformance issues at login? YES...NO... Was a PIPE generated? YES...NO...#_____ MW 10-26-11

BIS Broken in shipment

TestAmerica
LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

NUJ3353
11/09/11 23:59

COOLER RECEIPT FORM

Cooler Received/Opened On 10/26/2011 @ 07:35

1. Tracking # 1915 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 4.9 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA
   If yes, how many and where: 1-Front & 1-Back
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) P.H.

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
13a. Were VOA vials received? YES...NO...NA
    b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MW

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MW

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MW

I certify that I attached a label with the unique LIMS number to each container (intial) MW

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS Broken in shipment