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LETTER OF TRANSMITTAL

5 Alfred Circle
Bedford, Massachusetts 01730
(781) 275-6050 • Fax (781) 275-5651

To: Mr. Donald Heller
US EPA Region V
77 W Jackson Blvd
Chicago, IL 60604

Date: October 6, 2014	Project No. 1998002.331
Attention: Mr. Don Heller	
RE: Free Product Recharge Study Completion Report	
Bodycote Thermal Processing	
Melrose Park, IL	

We are sending you the following items: ☐ Attached ☐ Under Separate Cover
☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of Letter ☐ Change Order X Free Product Recharge Study Completion Report

COPIES	DATE	NO.	DESCRIPTION
1	8/11/14	1	Free Product Recharge Completion Report

THESE ARE TRANSMITTED as checked below:

☐ For Approval ☐ Approved as submitted ☐ Resubmit _____copies for approval
X For your information ☐ Approved as noted ☐ Submit _____copies for approval
☐ As requested ☐ Returned for corrections ☐ Return _____corrected prints
☐ For review and comment ☐ For Bid Due _____ ☐ Prints Returned After Loan To Us

Remarks:
Mr. Heller, Mabbett & Associates, Inc. has recently completed a Free Product Recharge Study and associated Completion Report at our clients facility (Bodycote Thermal Processing, 1975 N Ruby St, Melrose Park, IL 60160). The study and report were for the Illinois EPA in regards to free product historically present in monitoring well M&A-111 at the facility. The IEPA has approved the plan and we are no longer deploying oil absorbent media at that well location. This report is for your file. Please call me if you have any questions.

Sent Via:
☐ First Class Mail ☐ Your Messenger X Federal Express ☐ _____
☐ Parcel Post ☐ Our Messenger ☐ Air Mail

MABBETT & ASSOCIATES, INC.
BY:

Copy To: (MF) Signed:

Christopher L. Mabbett, PMP, PG, CPG
Senior Project Manager

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FREE PRODUCT RECHARGE STUDY COMPLETION REPORT

M&A-111

Project No. 1998002.331
August 11, 2014

Prepared for

Bodycote Thermal Processing
1975 N Ruby Street
Melrose Park, Illinois

Mabbett & Associates, Inc.
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ACKNOWLEDGEMENT

This Product Recharge Study Completion Report for 1975 North Ruby Street, Melrose Park, Illinois has been prepared for the sole and exclusive use of Bodycote Thermal Processing, Inc. ("Bodycote"; Client). Any use or reliance upon information provided in this report, without specific written authorization of the Client and Mabbett & Associates, Inc. ("Mabbett®"), 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.

The findings, observations, and conclusions presented in this report, including the extent of subsurface explorations and other tests, are limited by the scope and services outlined in our Letter-Agreements which reflect schedule and budgetary constraints. The professional opinions and findings presented in this report are based on facts and information conveyed to or observed by Mabbett 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 information gathered to date. Should further environmental or other relevant information be developed at a later date, the Client should bring such information to the attention of Mabbett as soon as possible. Based upon an evaluation, Mabbett may modify this report and its conclusions.

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

for Kiran B. Sears, FE
Environmental Engineer

This report has been reviewed and approved by:

MABBETT & ASSOCIATES, INC.
BY:

Christopher L. Mabbett, PG, CPG, PMP
Senior Project Manager

Paul D. Steinberg, PE, LSP
Senior Vice President and General Manager

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I. PURPOSE

The purpose of the free product recharge study (FPRS) was to demonstrate that non-aqueous phase liquid (NAPL) has been removed to the maximum extent practicable through the absence of NAPL in groundwater monitoring well M&A-111.

A FPRS Plan was submitted to the Illinois Environmental Protection Agency (IEPA) and was approved on November 8, 2012. A copy of this approval letter is included as Attachment D. The approval letter from IEPA indicated that if the presence of NAPL was not detected in well M&A-111 for one year after the removal of oil absorbent media, a FPRS Report should be submitted to IEPA for review and approval. This report has been prepared and submitted in response to this requirement. Our client is requesting that the IEPA approve the ceasing free product removal activities in well M&A-111 at this time. Well M&A-111 will remain in place and will continue to serve as a groundwater monitoring well sample collection location in the semi-annual groundwater sampling program currently in place.

II. SITE DESCRIPTION

The Bodycote (formerly Lindberg Heat Treating Company) facility located at 1975 North Ruby Street in Melrose Park, Illinois, is approximately eight acres in size and consists of several interconnected buildings (refer to Drawings L-1 Site Locus, L-2 Site Plan, and L-3 Heat Treatment Building Monitoring Well Location Plan). The facility is utilized for the purpose of heat treating steel parts and products with a variety of furnaces and oil quench systems. Industrial facilities are located directly north, east, south and west of the Bodycote facility with the closest residential area located approximately 1,500 feet to the north. There are no surface water bodies located on the property, however, Silver Creek is located roughly 1,000 feet to the northeast. Topography in the vicinity of North Ruby Street is generally flat.

The areas impacted by quench oil releases are located inside the Heat Treat Building (HTB), and occupy a small portion of the Bodycote facility. These releases are discussed in more detail in the following sections.

The focus of the FPRS was groundwater monitoring well M&A-111. A Site Plan showing the HTB layout and the location of monitoring wells is provided as Drawing L-3.

III. SITE EVALUATION AND CLASSIFICATION

In response to this and other releases, Mabbett evaluated available physical and chemical data, information on surrounding populations, and potential environmental receptors for the purpose of classifying soil and groundwater.

A. Site Geology

Geologic maps contained in Circular 532 published by the Illinois Department of Energy and Natural Resources, State Geological Survey Division, entitled "Potential for Contamination of

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Shallow Aquifers in Illinois" (Berg et al., 1984) were reviewed. Plate 2, "Potential for Contamination of Shallow Aquifers from Surface Waste Disposal" (Berg et Al., 1984) locates the Site in an area designated D2. This designation is consistent with Site specific subsurface data and meets the requirements of 35 IAC Part 732, Subpart C, Section 732.302, No Further Action Sites, and describes the surficial geology as a "Uniform, relatively impermeable silty or clayey till or other fine-grained materials extending from the surface to more than 20 feet deep; no evidence of interbedded sand and gravel." The geologic limitations section of Plate 2 also indicates the Site is in an area of low potential for contaminating shallow aquifers.

The geology beneath the property has been defined by the installation of approximately 52 borings. Examination of the soil boring logs from the multiple subsurface investigations indicates that the shallow unconsolidated material underlying the Site is consistent with the Berg et al., 1984 D2 designation. The boring logs also indicate a discernible stratigraphy and correlation of fine-grained sediments between bore holes. Soil boring logs are attached as Appendix A.

The unconfined compressive strength of each stratigraphic unit encountered during the drilling activities was measured using a hand held penetrometer. The unconfined compressive strength in tons per square foot (tons/ft^2) was measured on cohesive samples collected with a split-spoon sampler that was advanced ahead of the augers. The spoon was opened, the tip of the penetrometer inserted into the sample, and pressure was applied until mechanical failure of the soil unit was observed. The unconfined compressive strength for each stratigraphic unit encountered at the HTB is included in the descriptions below.

The concrete slab-on-grade construction of the building floors was constructed on fill material which varied in thickness from approximately 2 to 7 feet. The shallow fill material (two to three feet below grade) is primarily comprised of sand and gravel, and does not appear to be native to the property. The deeper fill material (3 to 7 feet below grade) is primarily comprised of silt, with varying percentages of clay, fine sand, and fine gravel which appeared to have originated on or near the property (Mabbett, 1999).

The native material underlying the fill between the approximate depths of 7 to 20 feet below grade is primarily silt, with varying percentages of clay, occasionally trace fine to coarse sand and trace fine to medium gravel lenses were observed. These silts had a measured unconfined compressive strength of greater than 4.5 tons/ft^2. The moisture content of the silt varied from damp to wet and exhibited varying degrees of vertical, horizontal or diagonal fracturing. The color of the silt was either gray, olive, tan/brown or dark brown. These silt units appear to be primarily lacustrine in origin but may also contain glacial outwash and/or fluvial deposits within them. Trace sand and gravel lenses are observed intermittently across the site.

Underlying the silt beneath the majority of the property is dry, very dense, gray, very fine sand and silt exhibiting slaty horizontal cleavage and/or fracturing. This gray, very fine sand

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appears representative of a beach facies with an unconfined compressive strength of 1.0 ton/ft^2. The gray, very fine sand is located between the approximate depths of 20 to 28 feet below grade in the southern and eastern portions of the property.

Underlying the gray, very fine sand and silt beneath the southern and eastern portions of the property is a glacial till consisting of dry, very stiff, gray silt and fine sand. The gray silt and fine sand is located between the approximate depths of 28 to 30 feet below grade. This gray silt and fine sand unit exhibits varying degrees of vertical, horizontal or diagonal fracturing to a maximum depth of approximately 30 feet below grade. Below this depth, fracturing was not generally observed, possibly due to increased plasticity of the till, or the weight of overlying materials. The unconfined compressive strength of this unit was measured at 3.0 tons/ft^2. The gray silt and fine sand was also observed to be interbedded with the gray very fine sand and silt unit beneath the northwestern portions of the property between the approximate depths of 22 to 31 feet below grade.

Underlying the gray silt and fine sand beneath the southern and eastern portions of the property is wet, medium dense, gray, fine to coarse sand with lesser amounts of silt. The wet, gray, fine to coarse sand is located between the approximate depths of 31 to 34 feet below grade and has an unconfined compressive strength of less than 1.0 tons/ft^2. This wet, gray, fine to coarse sand unit appears to represent an intermediate depth water bearing zone.

Underlying the gray silt and fine sand beneath the northwestern portions of the property is dry, very dense, gray very fine sand and silt exhibiting slaty horizontal cleavage and/or fracturing. The unconfined compressive strength was measured at greater than 4.5 tons/ft^2. This gray very fine sand is similar to that located in the eastern and southern portions of the property but is located at a greater depth of approximately 31 to 35 feet below grade. The gray very fine sand and silt is observed to overlie and interbed with silt and fine sand below the approximate depth of 35 feet beneath the northwestern portions of the property.

A hard, gray, glacial till unit was identified beneath the gray, fine to coarse sand under the southern and eastern portions of the property below an approximate depth of 34 feet below grade. The gray till is primarily comprised of silt with varying percentages of clay, sand and gravel. The moisture content of the till varies from damp to wet and has an unconfined compressive strength of greater than 4.5 tons/ft^2. The wet zones within the predominately damp till were associated with sand and gravel lenses.

The deeper native material underlying the northwestern portions of the property appears to be primarily comprised of dry, very dense, gray, very fine sand and silt exhibiting slaty horizontal cleavage interbedded with dry silts and fine sands. The northwestern portions of the property do not appear to contain wet zones associated with sand and gravel lenses as observed within the till in the eastern and southern portions of the property.

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The sand and gravel lenses beneath the property were observed at depths greater than 20 feet which was consistent with the Berg et al., 1984, "Potential for Contamination of Shallow Aquifers from Surface Waste Disposal" Plate 2 D2 designation. However when reviewing the Berg et al., 1984, Plate 1, "Potential for Contamination of Shallow Aquifers from Land Burial of Municipal Wastes" it shows the property in an area designated E and noted that there were no sand and gravel lenses identified within 50 feet of the surface. Because thin sand and gravel lenses were observed between the depths of 20 and 50 feet in the on-site boring logs, the observed intermediate depth geology was not entirely consistent with the Berg et al., 1984 Plate 1 E designation soil description. However, in conformance with the requirements of 35 IAC Part 732, Section 732.307(d)(3)(A), the sand and gravel lenses have not been observed to be more than 5 feet thick (Mabbett, 1999).

In addition, the results of well yield tests and slug testing completed on groundwater monitoring wells screened across these sand and gravel lenses during previous investigations, indicated that these lenses are not capable of yielding a sufficient volume of groundwater to warrant changing the Berg et al., 1984, Plate 1 E designation for the intermediate depth geology at the Bodycote property. The geologic limitations section of Plate 1 also indicated that the property is in an area of low potential for contaminating shallow aquifers.

The geologic description contained in the "Preliminary Report on Groundwater Resources of the Chicago Region, Illinois" (Suter et al., 1959) provided a geologic description of a typical glaciolacustrine deposit sequence which, appeared to explain both the thin sand and gravel lenses noted on the intermediate depth on-site boring logs and also indicated relatively impermeable silty or clayey fine-grained materials. Suter et al. described the observed intermediate depth geology as consisting of the following: deposits of well sorted sand and gravel accumulated along beaches by wave action, inclined sand and gravel beds laid down in deltas, and fine sediment that settled in quiet waters offshore. Notwithstanding a published geologic description which specifically matches the observed on-site intermediate depth geology, the shallow on-site geology underlying the site was observed to consist of relatively impermeable silty or clayey till or other fine-grained materials to a depth greater than 20 feet, and was consistent with the Berg et al., 1984 D2 designation.

B. Site Hydrogeology

Field observations and depth to groundwater measurements collected during soil boring and monitoring well installation activities in the vicinity of the Site indicate that two water bearing zones exist beneath the property. The shallow saturated zone is encountered at depths of approximately three (3) to seven (7) feet below ground surface while the intermediate saturated zone is encountered at depths of approximately 31 to 34 feet below ground surface. Based on boring log information collected at the facility, the shallow and intermediate depth water bearing zones are isolated from each other by deposits of fine silt and clay.

The shallow water bearing zone is primarily located within the fill material identified beneath

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the Site. Shallow groundwater contours in the vicinity of monitoring well M&A-111 are presented in Drawing L-4 and are based on the most recent groundwater gauging event conducted in April 2014. Based on groundwater flow data collected on a bi-annual basis at the Site, a westerly flow direction as been determined for this portion of the property. The observed shallow groundwater flow direction varies from the easterly flow direction assumed for the region based on the presence of likely groundwater discharge areas including the Silver Creek located north and east of the Site. The westerly flow direction may be a result of localized variations in subsurface geologic conditions, particularly the presence of fill material.

Various field tests conducted throughout the Heat Treat Building area between 1994 and 1999 indicate that hydraulic conductivities (4.11×10^{-6} to 1.55×10^{-4} cm/sec) and well yield rates of the subsurface materials at the Site are low and support the determination that the Site has a low potential for contaminating shallow aquifers (Mabbett, 1994; Mabbett, 1995).

C. Aerial Extent of LNAPL Impacts

The aerial extent of NAPL observed at the site was delineated in detail in the Site Investigation Report submitted to IEPA on September 22, 1998, and approved by IEPA in a letter dated April 27, 1999. The NAPL at M&A-111 was apparently limited in volume and not observed to be present during the installation of the well based on the soil boring samples collected.

LNAPL has not been observed in wells adjacent to shallow groundwater monitoring well M&A-111 (M&A-101, M&A-102, M&A-103, M&A-107, M&A-109, M&A-110, or MCA-5). Due to the presence of an underlying dense clay/silt/till unit, no further migration of NAPL has been observed or is expected.

D. Potential Migration Pathways

As part of Site Classification activities and previous facility investigations Mabbett identified and evaluated potential migration pathways in the vicinity of the Site. Storm drains and utility lines located in/or near the release area were determined to be located at depths above the interval at which free product was encountered. In addition, historic soil sampling conducted in areas down-gradient of monitoring well M&A-111 and up-gradient of storm drains and utility lines did not exhibit petroleum impacts.

Mabbett reviewed United States Geological Survey (USGS) topographical maps and conducted a reconnaissance of the Site in October 2011. Results of the review and reconnaissance indicated that there are no surface water bodies located within 100 feet of the release area. Silver Creek, located approximately 1,000 feet northeast of the Site is the closest surface water body. In addition, Mabbett confirmed that the facility was not located within IEPA established setback zones for any potable water supply wells or within 200 feet of any Class III groundwater sources. A more detailed description of Mabbett's efforts

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associated with the identification of potential migration pathways is provided in the previously submitted Site Classification Completion Report dated October 22, 1999.

Based on the Site characterization and gauging data collected to date, the LNAPL was limited specifically to the area directly around M&A-111. The potential pathways discussed above were determined to pose no risk for migration of petroleum constituents from this area.

E. Water Well Supply Survey

According to the Illinois State Water Survey performed on-line on June 26, 2014, there are no community water supply wells or other potable wells located within 2,500 feet of the subject site. There are no regulated recharge areas or wellhead protection areas located within 2,500 feet of the subject site. There is one private irrigation well identified on the water well supply survey located approximately 1,000-feet south of the subject site. The well belongs to the HIWAY Restaurant, was installed in 1957, is approximately 250-feet in depth, was drilled into bedrock, and is used for industrial/commercial activities. Please refer to Drawing L-5 for a graphical representation of the Illinois State Water Survey. This survey was conducted in accordance with the requirements set forth in 35 IAC 732 and the documentation submitted above indicates all the information obtained as a result of the survey performed by the Licensed Professional Engineer associated with the subject property.

IV. RELEASE HISTORY

NAPL was first encountered in groundwater monitoring well M&A-111 in May 2003 during a routine groundwater sampling event by Mabbett personnel. Trace amounts of a light NAPL were observed during static groundwater elevation gauging. Mabbett personnel deployed oil absorbent media in M&A-111 to control/remove the NAPL. The origin of the NAPL release has not been identified to date. Several subsurface investigations attempting to identify the release location were attempted but not successful in identifying the release source.

Mabbett reported the presence of the NAPL to IEPA in the Fall 2003 Semi-Annual Groundwater Monitoring Report, and the issue was incorporated under the ongoing Voluntary Cleanup Program (VCP) at the Site. A FPSR Plan was submitted to the Illinois Environmental Protection Agency (IEPA) and was approved on November 8, 2012. A copy of this approval letter is included as Attachment D. The approval letter from IEPA indicated that if the presence of NAPL was not detected in well M&A-111 for one year after the removal of oil absorbent media, a FPRS Report should be submitted to IEPA for review and approval.

V. NAPL GAUGING DATA

Semi-annual gauging and sampling of all the wells in the HTB has been performed by Mabbett since before NAPL was first encountered in M&A-111. As required by item 3.a. of the November 8, 2012 FPRS approval letter, a table showing the product elevation data was not included because no free product was observed during the course of the study. Table 1 below is a summary of the quarterly product gauging events performed during the course of the study.

Table 1: NAPL Gauging Data (M&A-111)

Date	NAPL Present
April 18, 2013	None
July 17, 2013	None
October 23, 2013	None
January 28, 2014	None
April 1, 2014	None

VI. GROUNDWATER ELEVATION DATA

As required by item 3.b. of the November 8, 2012 FPRS approval letter, two years of groundwater elevation data collected during the study from the wells located in the HTB is provided as Table 2, attached in the tables section of the report.

VII. GROUNDWATER ANALYTICAL DATA

As required by item 3.c. of the November 8, 2012 FPRS approval letter, two years of groundwater analytical data collected prior to and one and a half years of analytical data collected during the study from the wells located in the HTB is provided as Table 3, attached in the tables section of the report.

VIII. CONCLUSIONS AND RECOMMEDATIONS

Free product recovery efforts at monitoring well M&A-111 consisted of the deployment of oil absorbent media [socks]. These oil absorbent socks were first placed in M&A-111 in May 2003 when Mabbett personnel encountered NAPL in the well during a routine sampling event. Oil absorbent media were placed in the well since this time. The last time the presence of NAPL was documented in the well was 2007. The FPRS Plan was submitted to IEPA in March 2012 and was approved in November 2012. The Plan was implemented with the removal of all oil absorbent media on February 20, 2013. The well has remained open since this date in order to quantify the volume of NAPL recharge in the well.

Gauging has occurred quarterly since the removal of the oil absorbent media: on April 18, 2013; July 17, 2013; October 23, 2013; January 28, 2014; and April 1, 2014. No NAPL has been detected in the well or on the probe during any of these gauging events.

As NAPL has not been observed in the well during the recharge study program, it can be assumed that NAPL has been removed to the maximum extent practicable in well M&A-111. As such, Mabbett is requesting that the NAPL study in M&A-111 be closed and the IEPA allow our client to cease oil absorbent media deployment activities at this location. Groundwater monitoring well M&A-111 will remain in place and will continue to serve as a groundwater monitoring well sample collection location in the semi-annual groundwater sampling program currently in place.

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IX. REFERENCES

Illinois Department of Energy and Natural Resources, State Geological Division Maps. Potential for Contamination of Shallow Aquifers in Illinois. 1984.

Illinois Resource Management Mapping Service. Accessed 6/24/2014. http://www.rmms.illinois.edu/RMMSMigrated/(S(advctf45oe5xjtjw14grluay))/Home.aspx

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Mabbett & Associates, Inc. Remedial Action Plan. August 2000.

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FIGURES

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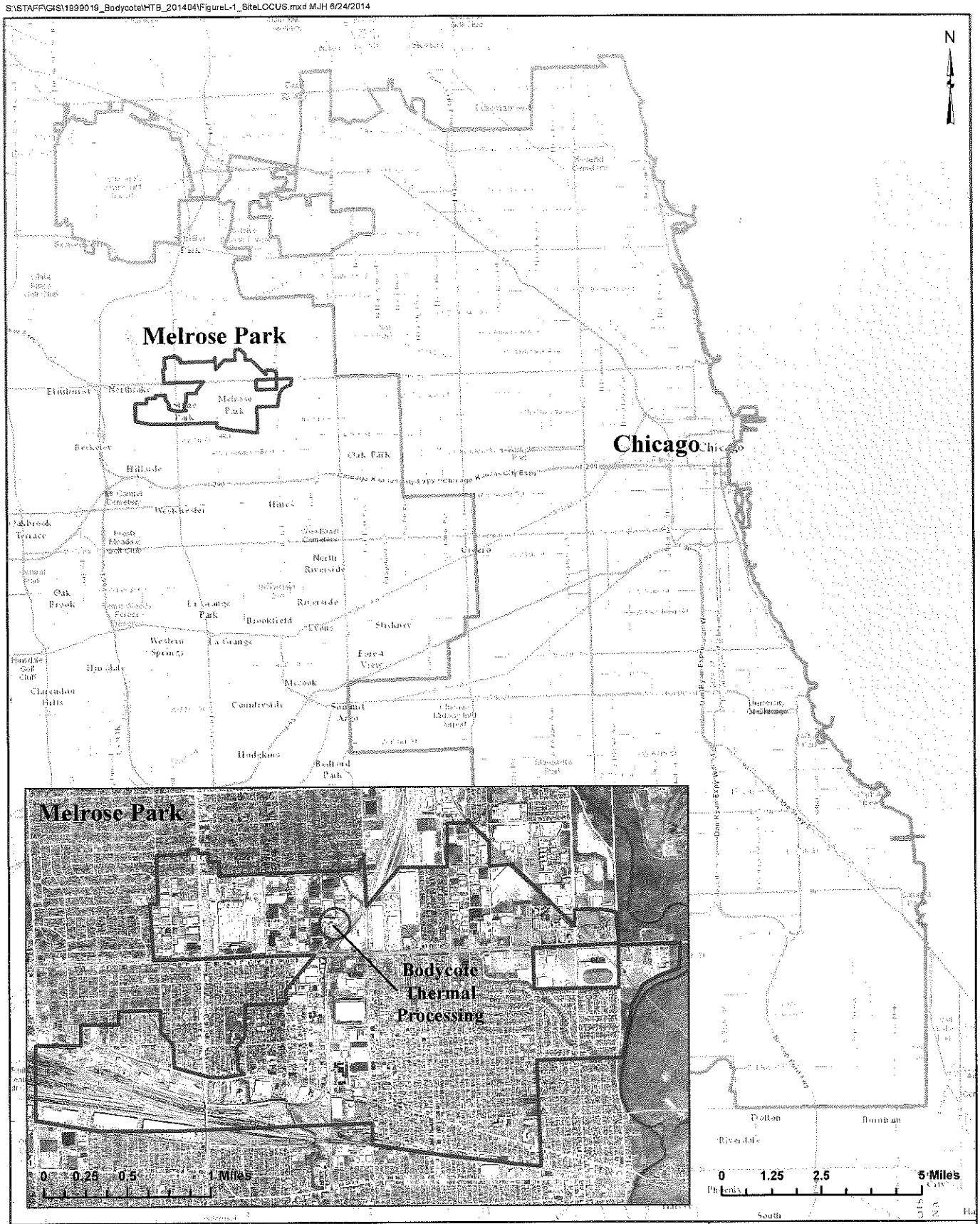

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Heat Treat Building
Semi-Annual Groundwater Monitoring

SITE LOCUS

Bodycote Thermal Processing, Inc.
Melrose Park, IL

Figure No. L-1

Scale: See Scale Bar	
Drawn: MJH	Approved: CLM
Projection: NAD83 Illinois State Plane East (feet)	
Proj. No. 1998002.329	Date: 6/24/2014

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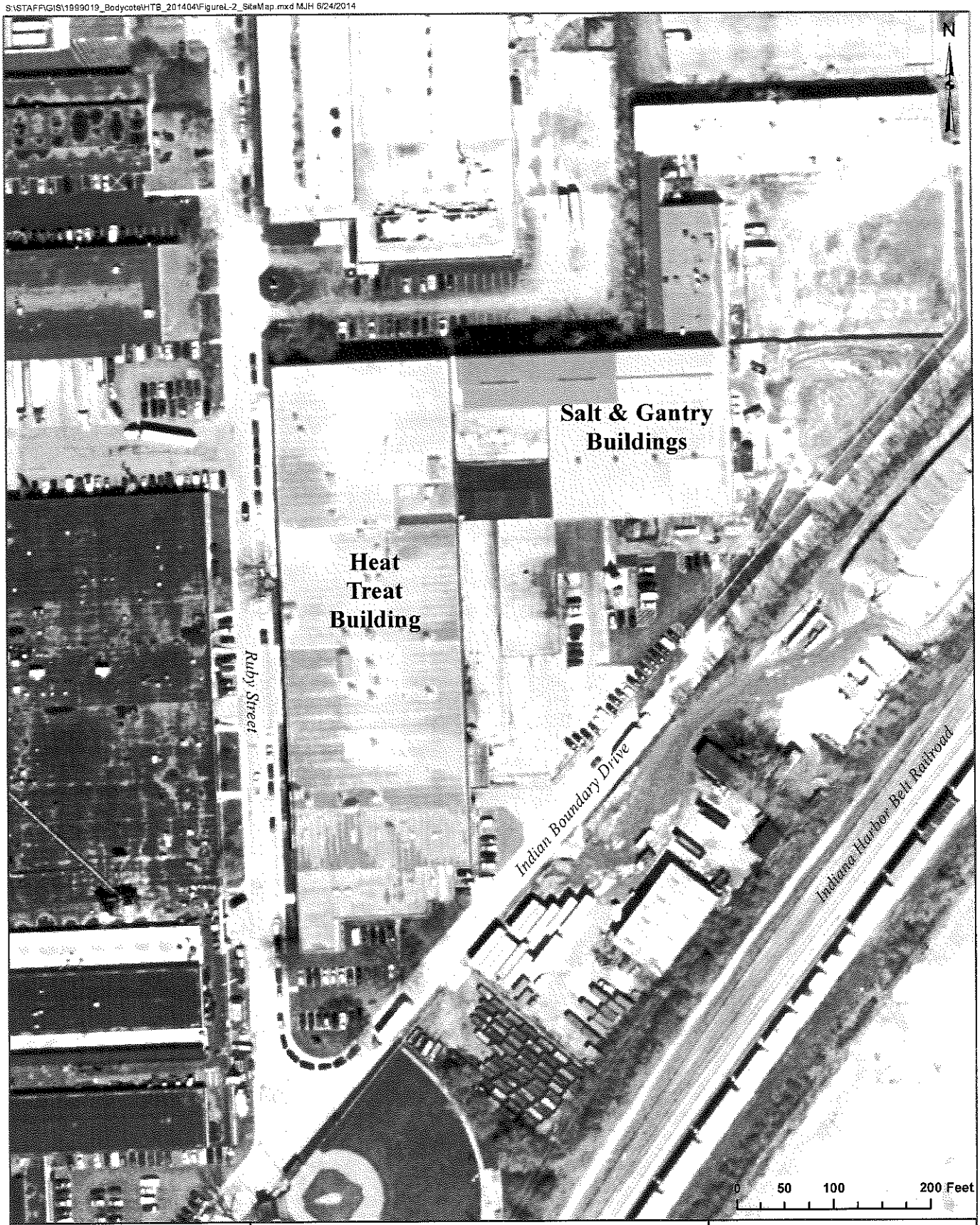

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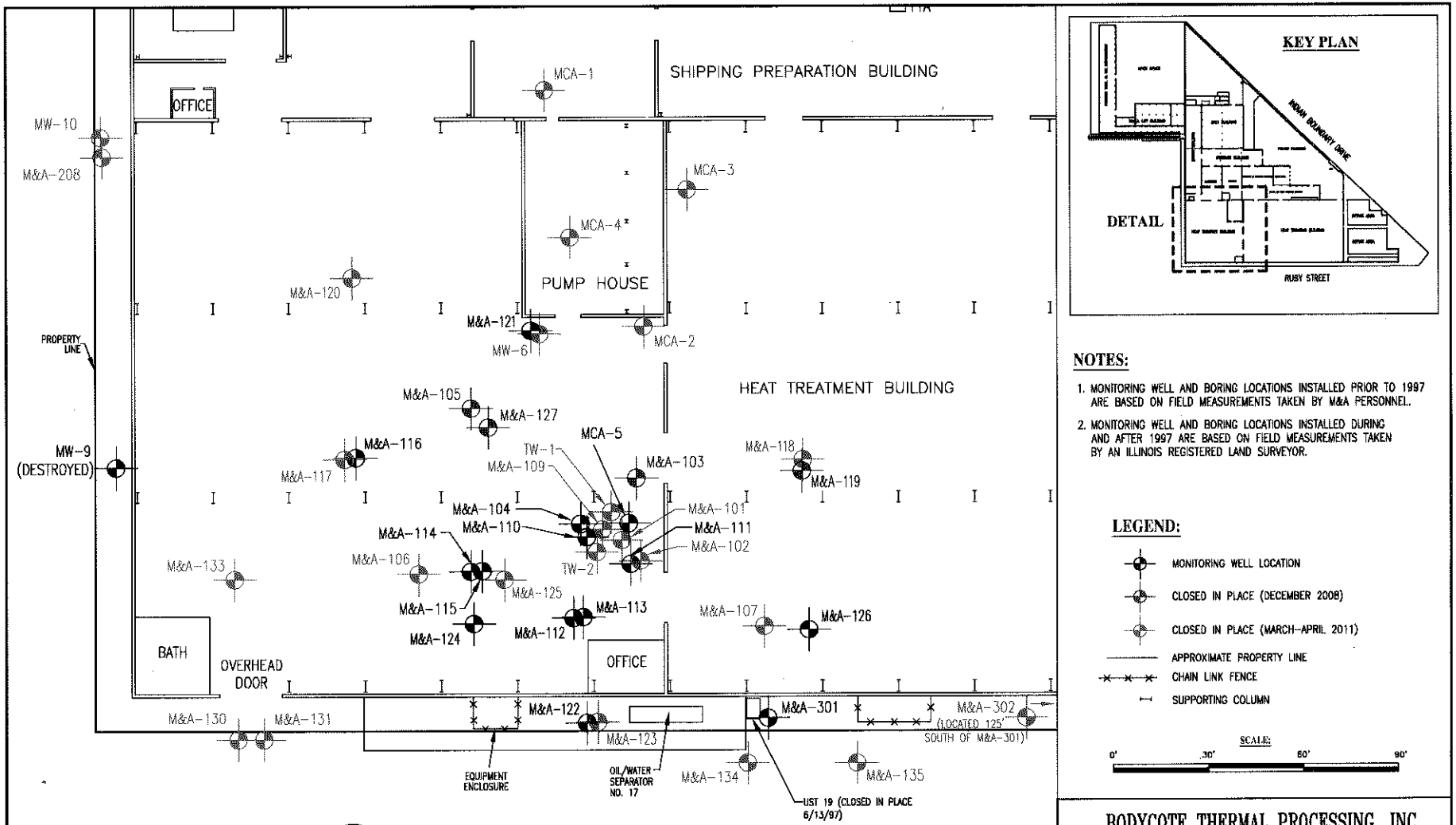
Heat Treat Building
Semi-Annual Groundwater Monitoring Report

SITE MAP

Bodycote Thermal Processing, Inc.
Melrose Park, IL

Figure No. L-2

Scale: See Scale Bar	
Drawn: MJH	Approved: CLM
Projection: NAD83 Illinois State Plane East (feet)	
Proj. No. 1998002.329	Date: 6/24/2014



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
		REVISION			
1	5/24/14	FOR REGULATORY REVIEW	DJA	CLM	CLM

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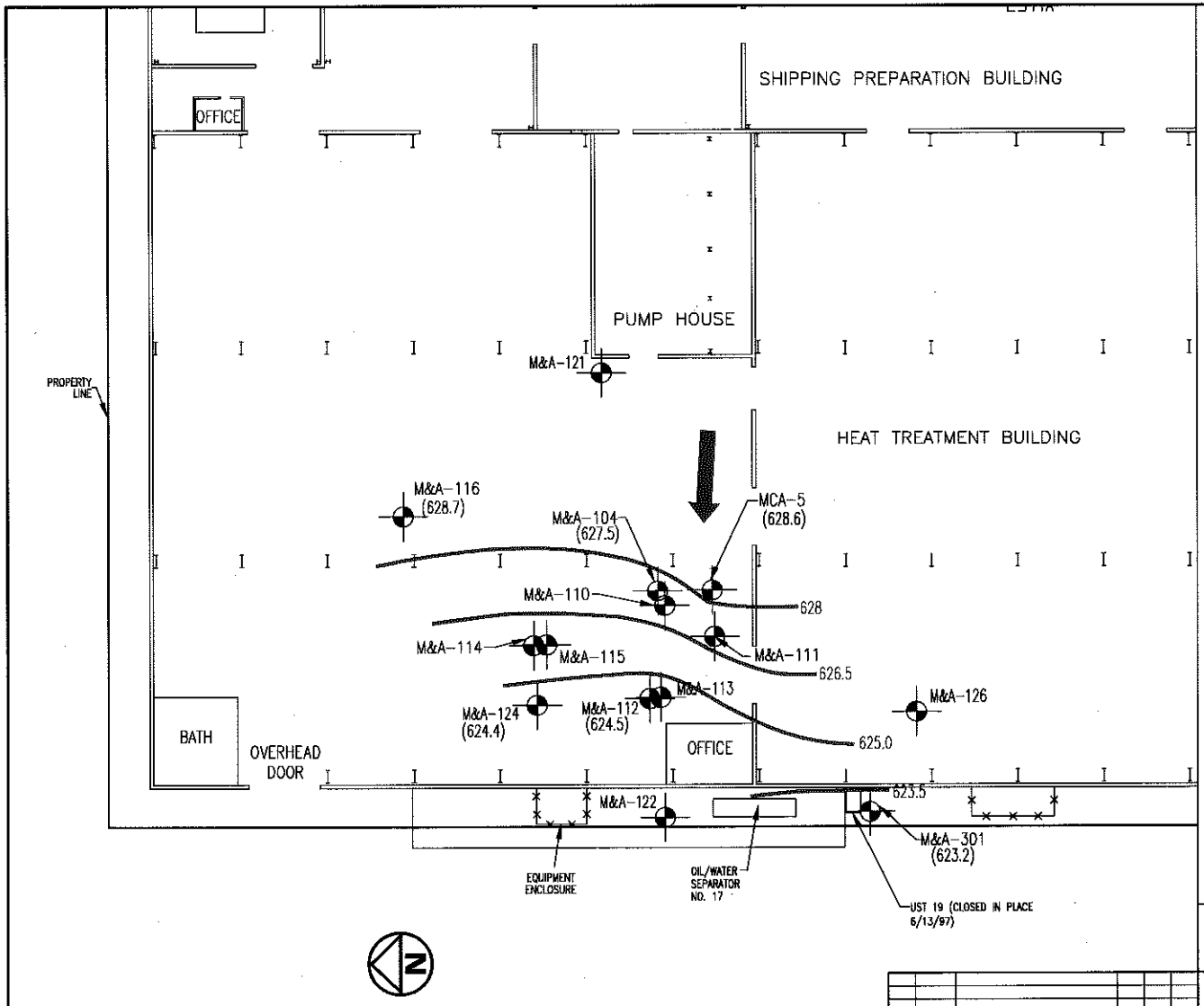
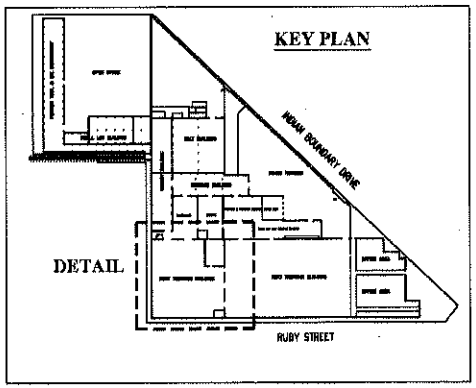
HEAT TREATMENT BUILDING MONITORING WELL LOCATIONS PLAN

DWG. NO. L-3

DRAWN DJA | APPROVED CLM | SCALE 1"=30'-0" | PROJ. NO. 1998002.329

S:\CADD\WORK\Bodycote\1998002.329\HTB\1998002.329 (L-3-HTB.dwg – L-3 Plan – Jun. 26, 2014 11:46am – djo





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
- 1.5 FT. SHALLOW GROUNDWATER CONTOURS (APRIL 2014)
- CHAIN LINK FENCE
- GROUNDWATER FLOW DIRECTION (APRIL 2014)

SCALE:
0' 30' 60' 90'

BODYCOTE THERMAL PROCESSING, INC.

MELROSE PARK, ILLINOIS

NO.	DATE	DESCRIPTION	DRN	CHK	APP
1	6/24/14	FOR REGULATORY REVIEW	DJA	CLM	CLM

REVISION

Mabbett
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HEAT TREATMENT BUILDING SHALLOW GROUNDWATER ELEVATIONS CONTOUR PLAN (APRIL 2014)

DWG. NO. L-4

DRAWN DJA | APPROVED CLM | SCALE 1"=30'-0" | PROJ. NO. 1998002.329

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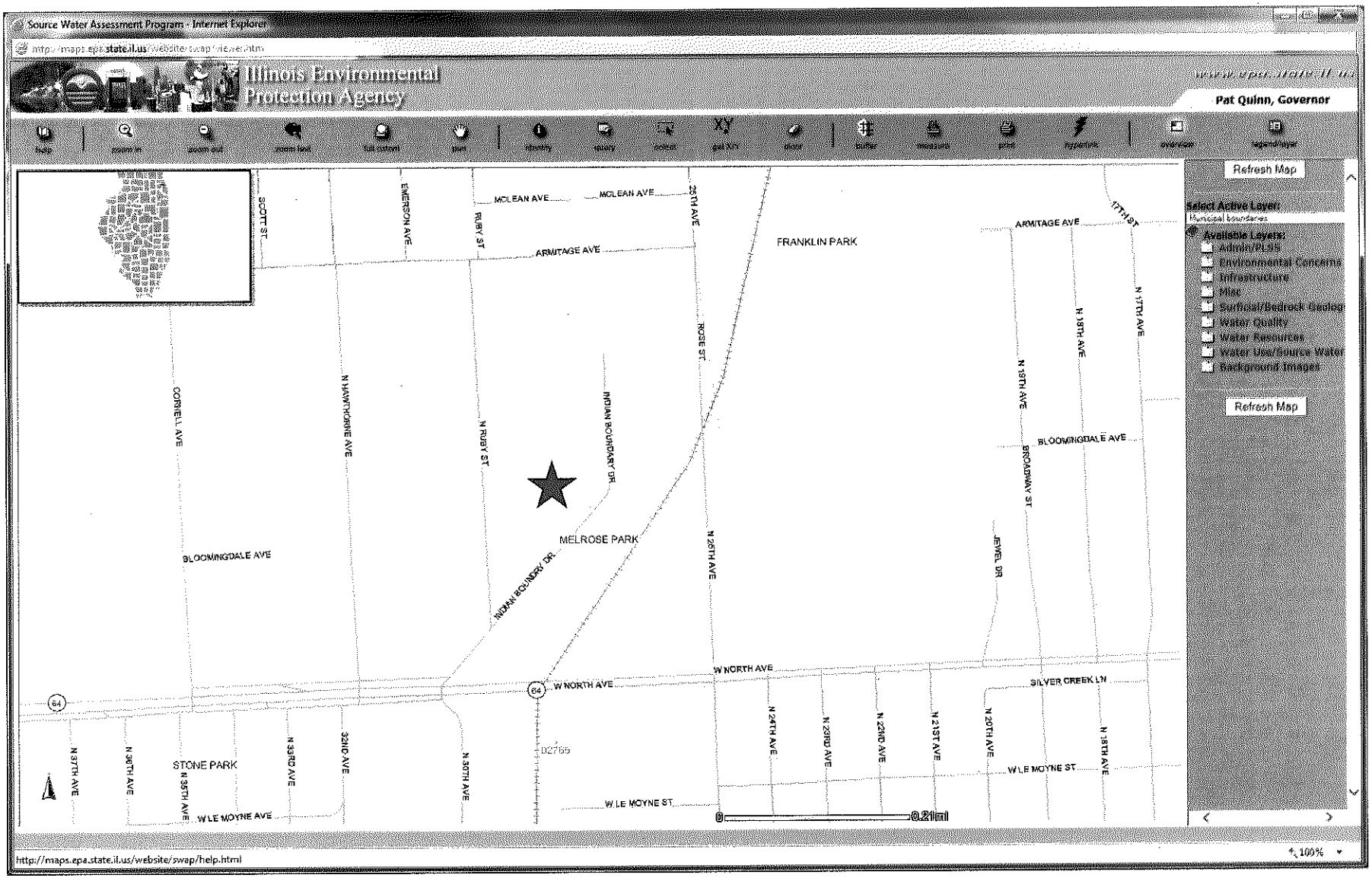
S:\CADD\WORK\Bodycote\1998002.329\HTB\1998002.329 L-4-HTB.dwg - L-2 Plan - Jun. 26, 2014 11:47am - dja



Drawing L-5: Illinois State Water Survey. The subject site is located at the intersection of North Ruby Street and Indian Boundary Drive, marked with the red star. This map was obtained from the Illinois Environmental Protection Agency (6/26/2014).

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TABLES

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TABLE 2
GROUNDWATER ELEVATION SUMMARY
FREE PRODUCT RECOVERY STUDY
HEAT TREAT BUILDING
BODYCOTE THERMAL PROCESSING
MELROSE PARK, IL

Well #	TOR	DTB	Oct-12		Apr-13		Oct-13		Apr-14	
			DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE
MCA-5	634.10	7.65	5.44	628.66	6.23	627.87	7.10	627.00	5.55	628.6
M&A-104	634.27	12.00	5.80	628.47	7.18	627.09	7.05	627.22	6.80	627.5
M&A-110	634.14	29.60	26.60	607.54	27.41	606.73	26.68	607.46	27.00	607.1
M&A-111	634.13	32.50	27.00	607.13	28.12	606.01	26.95	607.18	27.25	606.9
M&A-112	634.18	15.00	6.50	627.68	10.20	623.98	8.70	625.48	9.70	624.5
M&A-113	634.28	33.00	29.37	604.91	30.20	604.08	27.57	606.71	27.50	606.8
M&A-114	634.24	15.00	14.32	619.92	14.96	619.28	12.50	621.74	14.90	619.3
M&A-115	634.29	28.50	27.61	606.68	DRY	NA	27.55	606.74	28.30	606.0
M&A-116	634.18	14.70	5.25	628.93	5.45	628.73	5.43	628.75	5.45	628.7
M&A-121	634.23	33.00	27.40	606.83	28.20	606.03	27.56	606.67	27.70	606.5
M&A-122	632.79	33.00	25.03	607.76	25.32	607.47	25.10	607.69	27.80	605.0
M&A-124	634.24	15.20	6.80	627.44	7.23	627.01	9.00	625.24	9.80	624.4
M&A-126	634.08	34.00	25.75	608.33	27.91	606.17	26.90	607.18	27.30	606.8
M&A-301	633.12	12.50	5.95	627.17	7.39	625.73	9.20	623.92	9.95	623.2

Notes:
1. All depths and elevations are given in feet.
2. TOR = top of riser
3. DTB = depth to bottom relative to TOR
4. DTW = depth to water relative to TOR
5. GWE = groundwater elevation

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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL DATA
FREE PRODUCT RECHARGE STUDY
HEAT TREAT BUILDING
BODYCOTE THERMAL PROCESSING
MELROSE PARK, IL

WELL ID	AQUIFER	Sampling Event	Benzene	Carbon Disulfide	Chloromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	4-Methyl-2-pentanone	Methylene Chloride	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes	Bromomethane	Naphthalene	n-propylbenzene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
	Parameter		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	Est. Shallow Aquifer GRO		NSL	NSL	NSL	NSL	480,000	NSL	NSL	120	800	NSL	NSL	NSL	58,000	NSL	NSL	1,100,000	NSL	NSL	7,200	NSL	NSL	NSL	NSL	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Est. Intermediate Aquifer GRO		NSL	NSL	NSL	NSL	240,000	NSL	NSL	190	110	NSL	NSL	NSL	200,000	NSL	NSL	1,100,000	NSL	NSL	160	NSL	NSL	NSL	NSL							
MCA-6	Shallow	4/20/2011	ND	ND	ND	ND	36,200	ND	ND	113	482	ND	ND	ND	62.4	6.13	ND	49,700	ND	ND	2,680	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/25/2011	1.04	ND	ND	ND	51,200	5.38	ND	[illegible]	[illegible]	ND	ND	ND	53.9	11	1.42	51,000	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/24/2012	ND	ND	ND	ND	33,100	ND	ND	[illegible]	664	ND	ND	ND	ND	ND	ND	37,800	ND	ND	6,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/2/2012	1.21	ND	ND	ND	62,300	4.42	ND	[illegible]	700	ND	ND	ND	56.1	15.7	ND	65,400	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/18/2013	ND	ND	ND	ND	17,500	1.28	ND	81.6	473	ND	ND	ND	37.8	ND	ND	25,700	ND	ND	62.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	1.19	ND	ND	ND	50,100	4.79	ND	[illegible]	[illegible]	ND	ND	ND	59.8	16.6	ND	62,100	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	ND	ND	ND	ND	18,400	ND	ND	14.3	607	ND	ND	ND	37.2	2.3	ND	36,900	ND	ND	288	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M&A-104	Shallow	4/20/2011	2.09	ND	ND	1.48	64,400	12.9	ND	[illegible]	518	12.1	ND	6.63	2,770	154	ND	392,000	3.64	1.33	4,520	38.4	ND	ND	ND	ND	ND	ND	ND	0.911	ND	ND
		10/25/2011	1.82	ND	ND	ND	37,300	8.87	1.12	[illegible]	311	8.4	ND	8.00	1,770	84.3	5.89	279,000	1.87	ND	2,060	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/25/2012	ND	ND	ND	ND	32,200	ND	ND	ND	ND	ND	ND	ND	1,380	ND	ND	189,000	ND	ND	2,010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/1/2012	3.31	ND	ND	1.28	55,000	6.67	ND	[illegible]	402	10.2	ND	12.6	2,520	157	2.51	381,000	3.93	1.16	3,990	33.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/18/2013	ND	ND	ND	ND	36400	ND	ND	ND	ND	ND	ND	ND	1,380	ND	ND	167,000	ND	ND	1770	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	ND	ND	ND	1.44	60,800	ND	ND	[illegible]	828	13.0	9.5	11.8	2,070	182	ND	400,000	4.29	1.29	4,690	43.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	2.02	nd	nd	1.19	42,700	7.96	ND	[illegible]	881	7.6	ND	5.40	2,460	103	ND	368,000	1.78	ND	4,260	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M&A-110	Intermed	4/20/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	1.88	ND	ND
		10/25/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	2.10	ND	ND
		4/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/02/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	1.45	ND	ND
		4/18/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
M&A-111	Intermed	4/20/2011	ND	ND	ND	ND	1,520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	171	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	2.35	ND	ND
		10/25/2011	ND	ND	ND	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	1.29	ND	6.43	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	1.08	ND	ND
		4/24/2012	ND	ND	ND	ND	261	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/2/2012	ND	ND	ND	ND	67	ND	ND	ND	ND	ND	ND	ND	ND	1.32	ND	5.06	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		4/18/2013	ND	ND	ND	ND	8.14	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	9.92	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		10/24/2013	ND	ND	ND	ND	428	ND	ND	ND	1.90	ND	ND	ND	ND	1.95	ND	4.47	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	ND	ND	ND	ND	144	ND	ND	ND	1.59	ND	ND	ND	ND	1.13	ND	19.7	ND	ND	[illegible]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M&A-112	Shallow	4/20/2011	1.66	ND	4.47	ND	5,900	ND	ND	76.0	82.3	ND	ND	ND	111	4.01	ND	4,990	2.19	1.57	814	3.27	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		10/25/2011	1.04	1.09	ND	ND	5,310	ND	ND	60.8	154	ND	ND	ND	86.5	2.93	ND	3,920	1.04	ND	850	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		4/25/2012	ND	ND	ND	ND	3,070	ND	ND	22.6	34.6	ND	ND	ND	75.0	ND	ND	2,760	ND	ND	463	ND	ND	ND	ND	ND	ND	ND	ND	0.885	ND	ND
		10/1/2012	ND	ND	2.17	ND	4,600	ND	ND	ND	59.0	ND	ND	ND	137.0	5.43	ND	2,980	ND	ND	978	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		4/16/2013	ND	ND	ND	ND	3,510	ND	ND	20.5	29.1	ND	ND	ND	36.7	1.41	ND	860	ND	ND	406	ND	ND	ND	ND	ND	ND	ND	ND	2.39	ND	ND
		10/24/2013	ND	1.38	ND	ND	3,060	ND	ND	23.4	35.8	ND	ND	ND	29.8	1.83	ND	871	ND	ND	311	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
		4/2/2014	ND	ND	1.81	ND	1,700	ND	ND	12.6	34.2	ND	ND	ND	27.7	ND	ND	1,110	ND	ND	142	ND	ND	ND	ND	ND	ND	ND	ND	[illegible]	ND	ND
M&A-113	Intermed	4/20/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		10/25/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		4/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		10/02/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		4/02/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
M&A-114	Shallow	4/20/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	2.13	ND	ND
		10/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/01/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	[illegible]	ND	ND
M&A-115	Intermed	4/20/2011	ND	ND	ND	ND	64.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.29	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
		10/24/2011	ND	ND	ND	ND	60.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.86	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
		4/25/2012	ND	ND	ND	ND	32.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
		10/1/2012	ND	ND	ND	ND	49.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.13	ND	ND	1.37	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
		10/24/2013	ND	ND	ND	ND	43.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.9	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
		4/2/2014	ND	ND	ND	ND	24.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
M&A-116	Shallow	4/20/2011	ND	ND	ND	ND	13.8	ND	ND	ND	1.56	ND	ND	ND	ND	ND	ND	13.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2011	ND	ND	ND	ND	17.0	ND	ND	ND	2.37	ND	ND	ND	ND	ND	ND	14.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/24/2012	ND	ND	ND	ND	10.2	ND	ND	ND	1.56	ND	ND	ND	ND	ND	ND	9.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/1/2012	ND	ND	ND	ND	14.1	ND	ND	ND	2.01	ND	ND	ND	ND	ND	ND	10.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/18/2013	ND	ND	ND	ND	14.5	ND	ND	ND	1.94	ND	ND	ND	ND	ND	ND	16.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	ND	ND	ND	ND	9.09	ND	ND	ND	1.27	ND	ND	ND	ND	ND	ND	9.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	ND	ND	ND	ND	10.20	ND	ND	ND	1.41	ND	ND	ND	ND	ND	ND	14.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M&A-121	Intermed	4/20/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/01/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/18/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/01/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
M&A-122	Intermed	4/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/25/2011	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.04	ND	ND	4.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/25/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/1/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/18/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/2/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL DATA
FREE PRODUCT RECHARGE STUDY
HEAT TREAT BUILDING
HODGDON THERMAL PROCESSING
MELROSE PARK, IL

WELL ID	Parameter		Benzene	Carbon tetrachloride	Chloroethane	1,2-Dichlorobenzene	cis-1,2-dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	4-Methyl-2-pentanone	Methylene Chloride	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes	Bromomethane	Naphthalene	n-propylbenzene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	Est. Shallow Aquifer GRO		NSL	NSL	NSL	NSL	400,000	NSL	NSL	120	800	NSL	NSL	NSL	50,000	NSL	NSL	1,100,000	NSL	NSL	7,200	NSL	NSL	NSL	NSL	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Est. Intermediate Aquifer GRO		NSL	NSL	NSL	NSL	240,000	NSL	NSL	160	110	NSL	NSL	NSL	200,000	NSL	NSL	1,100,000	NSL	NSL	160	NSL	NSL	NSL	NSL							
	AQUIFER	Sampling Event																														
MW-124	Shallow	4/28/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/31/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
MW-128	Intermed	4/28/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/25/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/24/2012	ND	ND	ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/30/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/16/2013	ND	ND	ND	ND	4.19	ND	ND	ND	ND	ND	ND	ND	1.52	ND	ND	79.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-301	Shallow	4/28/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/25/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/31/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		10/24/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND
		4/3/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND

Notes:
ND = Not Detected
NS = Not Sampled
Red Shading indicates compound exceeds IL EPA TACO Tier I standard
Bold Value indicate compound was detected above the laboratory method detection limit
Total BTEX was detected during the October 2012 sampling round in 4 wells, MW-5 (19.0), MW-104 (204), MW-111 (1.22) and MW-112 (2.42).

APPENDIX A

Soil Boring
and
Groundwater Monitoring Well Installation Log

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MCA INC. MABBETT, CAPACCIO & ASSOCIATES, INC.

CONSULTANTS AND ENGINEERS 5 Alfred Circle • Bedford, Massachusetts 01730 • (617) 275-8050

PROJECT/CLIENT RCRA CLOSURE/LINDBERG HEAT TREATING CO. LOCATION MELROSE PARK, IL. PROJ. NO. 87024.12

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/19/92 / 02/19/92

GROUND ELEVATION (NGVD) - DRILLED BY FOX DRILLING CO.

GROUNDWATER EL./DEPTH - LOGGED BY GLO DATE 02/19/92

MCA-1

PG. 1 OF 1

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	REMARKS	SOIL AND ROCK DESCRIPTIONS
			4	0	0		BOTTOM OF CONCRETE FLOOR AT 0'.
			6	6	2		SANDY FILL
	1		6	6	6		GRAY CLAY
			6	6	6		
	2		5	6	2		
			6	6	6		
	3		7	6	6		
			7	6	6		
	4						
	5		7	6	5		
			9	6	6		
	6		8	6	6		
			8	6	6		
	7						BOTTOM OF BORING AT 7.0' NO WELL INSTALLED

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

– – – APPROXIMATE INTERFACE

MCA INC. MABBETT, CAPACCIO & ASSOCIATES, INC.

CONSULTANTS AND ENGINEERS 5 Alfred Circle • Bedford, Massachusetts 01730 • (617) 275-6050

PROJECT/CLIENT RCRA CLOSURE/LINDBERG HEAT TREATING CO. LOCATION MELROSE PARK, IL. PROJ. NO. 87024.12

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/19/92 / 02/19/92

GROUND ELEVATION (NGVD) - DRILLED BY FOX DRILLING CO.

GROUNDWATER EL./DEPTH - LOGGED BY GLO DATE 02/19/92

MCA-2

PG. 1 OF 1

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	REMARKS	SOIL AND ROCK DESCRIPTIONS
			2	6	0		BOTTOM OF CONCRETE FLOOR AT 0'.
			3	6	0		SANDY FILL
	1		6	6	3		GRAY CLAY
			7	6	6		
	2		6	6	0		
			9	6	2		
	3		10	6	6		
			10	6	6		
	4						
			4	6	1		
	5		5	6	6		
	6		7	6	6		
			8	6	6		
	7						BOTTOM OF BORING AT 7.0' NO WELL INSTALLED

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

– – – APPROXIMATE INTERFACE

MABBETT, CAPACCIO & ASSOCIATES, INC.

MCA INC. CONSULTANTS AND ENGINEERS 5 Alfred Circle • Bedford, Massachusetts 01730 • (617) 275-6050

PROJECT/CLIENT RCRA CLOSURE/LINDBERG HEAT TREATING CO. LOCATION MELROSE PARK, IL. PROJ. NO. 87024.12

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/20/92 / 02/20/92

GROUND ELEVATION (NGVD) - DRILLED BY FOX DRILLING CO.

GROUNDWATER EL./DEPTH - LOGGED BY GLO DATE 02/20/92

MCA-3

PG. 1 OF 1

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	REMARKS	SOIL AND ROCK DESCRIPTIONS
			7	6	0		BOTTOM OF CONCRETE FLOOR AT 0'.
			6	6	1		SANDY FILL
	1		5	6	6		GRAY CLAY
			4	6	6		
	2		3	6	0		
			4	6	1		
	3		5	6	6		
			10	6	6		
	4						
	5		8	6	6		
			12	6	6		
	6		13	6	6		
			20	6	6		
	7						BOTTOM OF BORING AT 7.0' NO WELL INSTALLED

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

GROUNDWATER

INTERFACE

APPROXIMATE INTERFACE

MABBETT, CAPACCIO & ASSOCIATES, INC.

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PROJECT/CLIENT RCRA CLOSURE/LINDBERG HEAT TREATING CO. LOCATION MELROSE PARK, IL. PROJ. NO. 87024.12

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/20/92 / 02/20/92

GROUND ELEVATION (NGVD) - DRILLED BY FOX DRILLING CO.

GROUNDWATER EL./DEPTH - LOGGED BY GLO DATE 02/20/92

MCA-4

PG. 1 OF 1

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	REMARKS	SOIL AND ROCK DESCRIPTIONS
			9	6	0		BOTTOM OF CONCRETE FLOOR AT 0'.
			7	6	0		SANDY FILL
	1		8	6	3		GRAY CLAY
			12	6	6		
	2		3	6	4		
			5	6	6		
	3		7	6	6		
			9	6	6		
	4						
	5		8	6	2		
			9	6	6		
	6		11	6	6		
			14	6	6		
	7						BOTTOM OF BORING AT 7.0' NO WELL INSTALLED

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

GROUNDWATER

INTERFACE

APPROXIMATE INTERFACE

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PROJECT/CLIENT RCRA CLOSURE/LINDBERG HEAT TREATING CO. LOCATION MELROSE PARK, IL. PROJ. NO. 87024.12

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/20/92 / 02/20/92

GROUND ELEVATION (NGVD) - DRILLED BY FOX DRILLING CO.

GROUNDWATER EL./DEPTH - LOGGED BY GLO DATE 02/20/92

MCA-5

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	REMARKS	SOIL AND ROCK DESCRIPTIONS
			11	6	0		BOTTOM OF CONCRETE FLOOR AT 0'.
			14	6	5		SANDY FILL
	1		16	6	6		GRAY CLAY
			17	6	6		
	2		6	6	0		
			6	6	6		
	3		7	6	6		
			11	6	6		
	4						
			4	6	6		
	5		6	6	6		
			7	6	6		
	6		10	6	6		
	7						BOTTOM OF BORING AT 7.0' NO WELL INSTALLED

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

– – – APPROXIMATE INTERFACE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING CO. LOCATION MELROSE, IL PROJ. NO. 87024.07

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/21/92 / 02/21/92

GROUND ELEVATION (NGVD) DRILLED BY FOX DRILLING

GROUNDWATER EL./DEPTH LOGGED BY GLO DATE 02/21/92

MW-6

PG. 1 OF 1

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE RESULTS	SOIL AND ROCK DESCRIPTIONS
	1						
	2						
	3	SS-1	10 16 10 6	24	21	1.7ppm	FILL – SANDY CLAY, LOW PLASTICITY, FINE TO MEDIUM GRAIN, BLACK. FILL – FINE TO MEDIUM SAND, SOME FINE GRAVEL, LITTLE SILT, BROWN. CLAY – MEDIUM PLASTICITY, TRACE FINE GRAVEL, DARK GRAY.
	4						
	5	SS-2	7 5 9 7	24	15	0.2ppm	CLAY – MEDIUM PLASTICITY, TRACE FINE TO MEDIUM SAND, GRAY.
	6						
	7						▽
	8						
	9						CLAY – LOW PLASTICITY, SOME FINE TO MEDIUM SAND, LITTLE SILT, BROWN.
	10	SS-3	8 10 12 15	24	24	1.6ppm	CLAY – SIMILAR TO SS-2
	11						
	12						
	13						
	14						
	15						BOTTOM OF BORING AT 15' WELL INSTALLED @ 15'

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

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MONITORING WELL INSTALLATION REPORT

MW-6

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING CO. PROJ. NO. 87024.07

LOCATION MELROSE PARK, IL

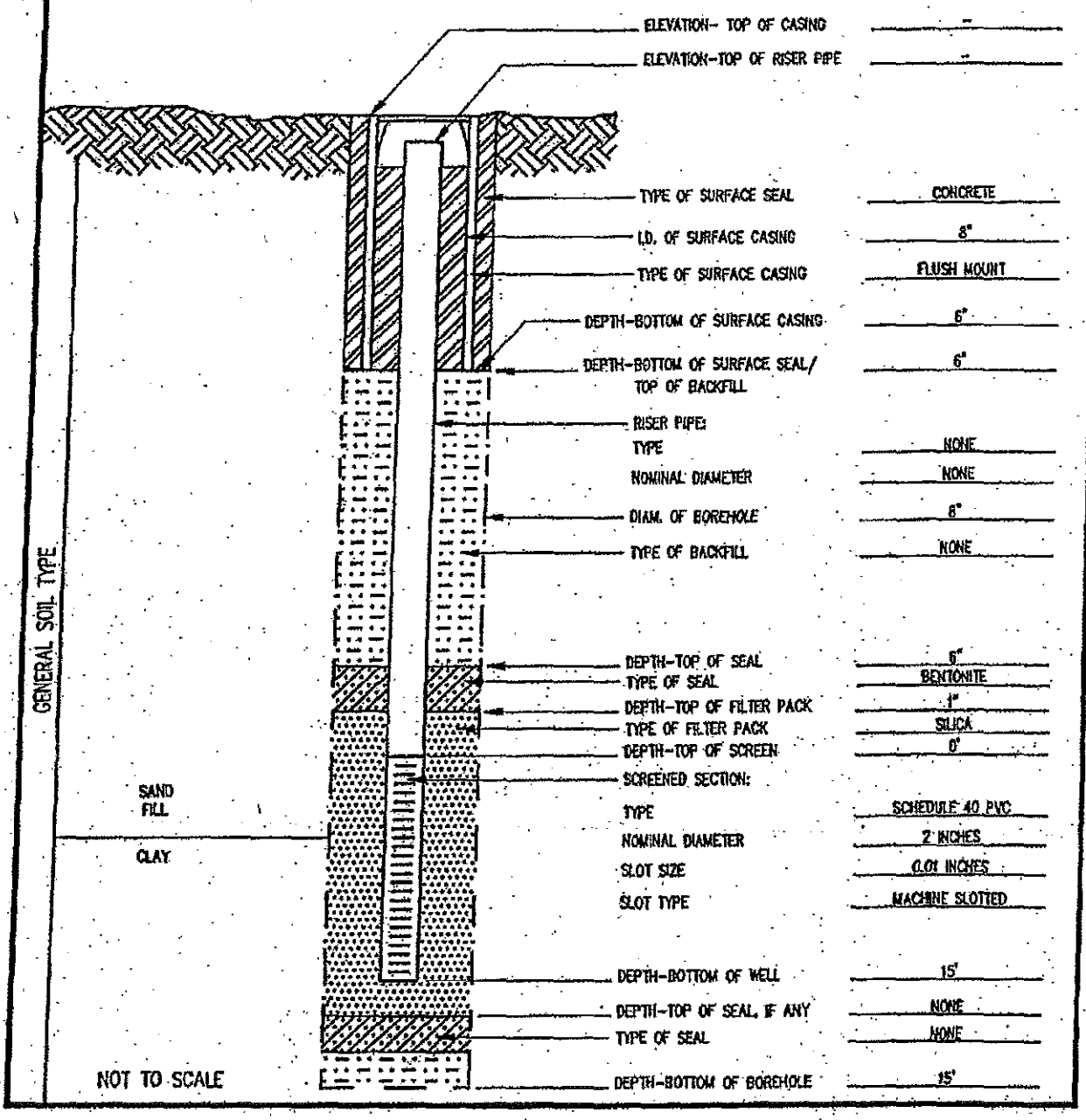
CONTRACTOR FOX DRILLING DRILLER GARY

LOGGED BY GLO DATE 2/21/87

CHECKED BY ____ DATE ____

BORING NO. MW-6

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	--
ELEVATION-TOP OF RISER PIPE	--
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	8"
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	6"
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	6"
RISER PIPE:	
TYPE	NONE
NOMINAL DIAMETER	NONE
DIAM. OF BOREHOLE	8"
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	5"
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	4"
TYPE OF FILTER PACK	SILICA
DEPTH-TOP OF SCREEN	0'
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15'
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	15'

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PROJECT/CUENT LINDBERG HEAT TREATING CO. LOCATION MELROSE, IL. PROJ. NO. 87024.07

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/22/92 / 02/22/92

GROUND ELEVATION (NGVD) DRILLED BY FOX DRILLING

GROUNDWATER EL./DEPTH LOGGED BY GLO DATE 02/24/92

MW-9

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE RESULTS	SOIL AND ROCK DESCRIPTIONS
	0	SS-1A	2 3 7 8	24	12	1.3ppm	CLAY – MEDIUM TO HIGH PLASTICITY, TRACE TO LITTLE MEDIUM COARSE SAND & FINE GRAVEL, BROWN.
	2						
	4	SS-1	6 11 14 16	24	23	42ppm	CLAY – MEDIUM TO HIGH PLASTICITY, TRACE TO LITTLE MEDIUM COARSE SAND & FINE GRAVEL, BROWN.
	6						
	8						
	10	SS-2	7 11 14 16	24	20	0.4ppm	CLAY – SIMILAR TO SS-1, GRAY.
	12						
	14	SS-3	3 4 7 7	24	20	0.2ppm	CLAY – SIMILAR TO SS-1, GRAY.
	16						
	18						
	20	SS-4	16 35 30 25	24	24	ND	CLAY – SIMILAR TO SS-1.
							SANDY SILT – FINE GRAIN, GRAY.
	22						
	24	SS-5	26 38 50/4"	16	14	ND	SILTY CLAY – LOW PLASTICITY, GRAY.
							SANDY SILT – SIMILAR TO SS-4 BOTTOM.
	26						
	28						

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN–PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC–RECOVERY LENGTH OF SAMPLE

SS–SPLIT SPOON SAMPLE

ROD–LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U–UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

– – – APPROXIMATE INTERFACE

Mabbett & Associates, Inc.

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PROJECT/CLIENT LINDBERG HEAT TREATING CO. LOCATION MELROSE, IL. PROJ. NO. 87024.07

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/22/92 / 02/22/92

GROUND ELEVATION (NGVD) DRILLED BY FOX DRILLING

GROUNDWATER EL./DEPTH LOGGED BY GLO DATE 02/24/92

MW-9

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE RESULTS	SOIL AND ROCK DESCRIPTIONS
	28						
	30	SS-6	15 30 50	18	12	ND	CLAY - LOW PLASTICITY, LITTLE TO SOME SILT, GRAY.
	32						
	34	SS-7	15 36 40 50	24	19	ND	CLAY - LOW PLASTICITY, TRACE TO LITTLE FINE GRAVEL AND MEDIUM COARSE SAND, GRAY.
	36						
	38	SS-8	17 25 40 50	24	18	ND	
	40						REFUSAL AT 40'. NO WELL INSTALLED.

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

GROUNDWATER

INTERFACE

APPROXIMATE INTERFACE

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PROJECT/CLIENT LINDBERG HEAT TREATING CO. LOCATION MELROSE, IL. PROJ. NO. 87024.07

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/22/92 / 02/22/92

GROUND ELEVATION (NGVD) DRILLED BY FOX DRILLING

GROUNDWATER DEPTH 29.5 FT. LOGGED BY GLO DATE 02/22/92

MW-10

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE RESULTS	SOIL AND ROCK DESCRIPTIONS
	2						
	4	SS-1	9 14 15 16	24	15	0.2ppm	CLAY – MEDIUM PLASTICITY, TRACE TO FINE MEDIUM SAND, BROWN.
	6						
	8						
	10	SS-2	5 9 14 6	24	20	ND	CLAY – MOD. PLASTIC, TRACE MED-COARSE SAND AND FINE GRAVEL, LIGHT GRAY.
	12						
	14	SS-3	3 5 11 14	24	24	0.1ppm	CLAY – MOD PLASTIC, GRAY.
	16						
	18						
	20	SS-4	39 50/5"	11	10	ND	CLAY – TOP 4" OF SAMPLE – LOW MOD. PLASTIC CLAY WITH LITTLE SAND. MIDDLE 3" OF SAMPLE – FINE SAND AND SILT, BOTTOM 3" OF SAMPLE – LOW PLASTIC CLAY AND FINE SAND, GRAY.
	22						
	24	SS-5	50	6	5	0.15ppm	SILTY SAND & CLAY – SIMILAR TO BOTTOM OF SS-4
	26						

BLOWS PER 6" – 140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN–PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC–RECOVERY LENGTH OF SAMPLE

SS–SPLIT SPOON SAMPLE

GC–FIELD GAS CHROMATOGRAPH

HNu–FIELD HEADSPACE READING, CORRECTED FOR BACKGROUND

BG–BACKGROUND

ROD–LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U–UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

– – – APPROXIMATE INTERFACE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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PROJECT/CLIENT LINDBERG HEAT TREATING CO. LOCATION MELROSE, IL PROJ. NO. 87024.07

BORING LOCATION SEE SITE PLAN DATE START/FINISH 02/22/92 / 02/22/92

GROUND ELEVATION (NGVD) DRILLED BY FOX DRILLING

GROUNDWATER DEPTH 29.5 FT. LOGGED BY GLO DATE 02/22/92

MW-10

EL. FT.	DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE RESULTS	SOIL AND ROCK DESCRIPTIONS
	28						
	30	SS-6	13 19 23 30	24	20	ND	SAND - WIDELY GRADED, SOME FINE GRAVEL, LITTLE SILT, GRAY.
	32						
	34	SS-7	18 23 30 40	24	18	ND	SAND - SIMILAR TO SS-6
	36	SHELBY TUBE	PUSH	12+	12+		CLAY - SIMILAR TO SS-3
							BOTTOM OF BORING - 37' WELL INSTALLED @ 34'

BLOWS PER 6" -140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN-PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC-RECOVERY LENGTH OF SAMPLE

SS-SPLIT SPOON SAMPLE

ROD-LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

U-UNDISTURBED SAMPLES

▽ GROUNDWATER

——— INTERFACE

— — — APPROXIMATE INTERFACE

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MONITORING WELL INSTALLATION REPORT

MW-10

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING CO. PROJ. NO. 87024.07

LOCATION MELROSE PARK, IL

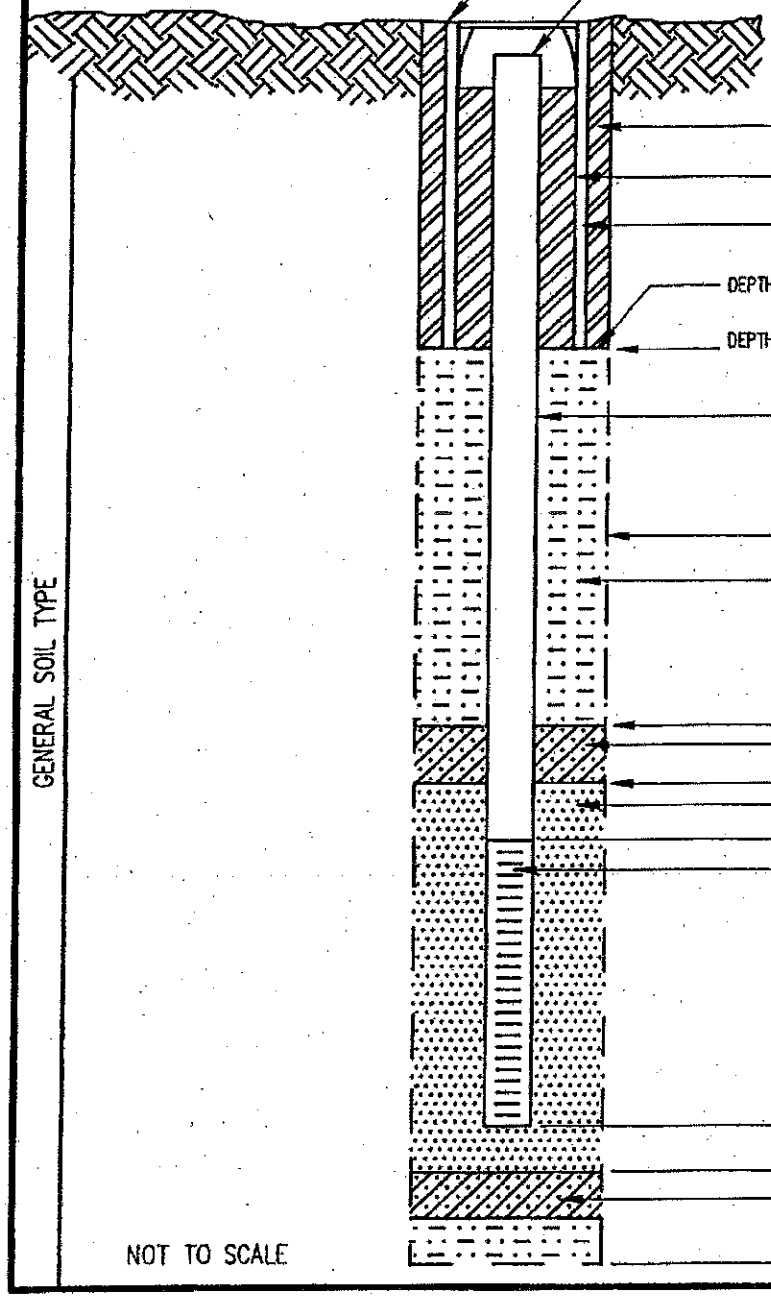
CONTRACTOR FOX DRILLING DRILLER GARY

LOGGED BY GLO DATE 2/21/92

CHECKED BY _____ DATE _____

BORING NO. MW-10

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	-
ELEVATION-TOP OF RISER PIPE	-
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	4"
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	2'
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	6"
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NATURAL
DEPTH-TOP OF SEAL	20'
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	22'
TYPE OF FILTER PACK	SILICA
DEPTH-TOP OF SCREEN	24'
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	34'
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	37'

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/14/93 / 7/15/93

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 4" & 6" DRIVE AND WASH CASING

GROUND ELEVATION (NGVD) 634.48 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET LOGGED BY CJH CHECKED BY CGL DATE 1/3/94

BORING NO. ____

WELL NO. M&A-101

DEPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1						6" BRASS SAMPLE LINERS UTILIZED	CONCRETE
2	SS-1 C	9	24	18	30		(FILL) DAMP, MEDIUM DENSE, TAN, FINE SAND, SOME SILT, LITTLE FINE GRAVEL, TRACE SLAG.
	SS-1 B	11					
	SS-1 A	13					
3		13					(FILL) DRY, DENSE, BLACK, FINE SAND AND SILT, TRACE FINE GRAVEL.
4	SS-2 C	16	24	13	40		(FILL) DRY, DENSE, BROWN SILT, LITTLE CLAY, TRACE FINE SAND.
	SS-2 B	17					
	SS-2 A	22					
5		16					(FILL) WET, MEDIUM DENSE, BROWN, FINE TO COARSE SAND, LITTLE SILT, TRACE FINE GRAVEL.
6	SS-3 C	6	24	15	500		(LACUSTRINE) DRY TO DAMP, STIFF, BROWN, SILT AND CLAY.
	SS-3 B	6					
	SS-3 A	8					
7							
8							
9							
10		10					
11	SS-4 B	11	24	12	500		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT AND CLAY, TRACE FINE SAND.
	SS-4 A	15					
12		19					
		2					
13	SS-5 B	5	24	12	400		(LACUSTRINE) DAMP, VERY STIFF, GRAY CLAY, SOME SILT, LITTLE FINE SAND, TRACE FINE GRAVEL.
	SS-5 A	8					
14		14					

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 7/14/93 / 7/15/93 — WELL NO. M&A-101

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E. — DRILLING EQUIPMENT 4" & 6" DRIVE AND WASH CASING

GROUND ELEVATION (NGVD) 634.48 FEET — CONTRACTOR FOX DRILLING — FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET — LOGGED BY CJH — CHECKED BY GGL — DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14							
15							
16		7					
17	SS-6	11	24	12	75		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, TRACE FINE SAND.
	B	11					
	A	13					
18		4					
		6					
19	SS-7	9	24	12	20		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT AND CLAY, TRACE FINE SAND.
	B	16					
	A						
20							BOTTOM OF BORING AT 20 FEET. WELL INSTALLED AT 20 FEET.

NOTE: SOIL SAMPLES COLLECTED IN 6 INCHES BRASS LINERS.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH (FILL IN)

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-101

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

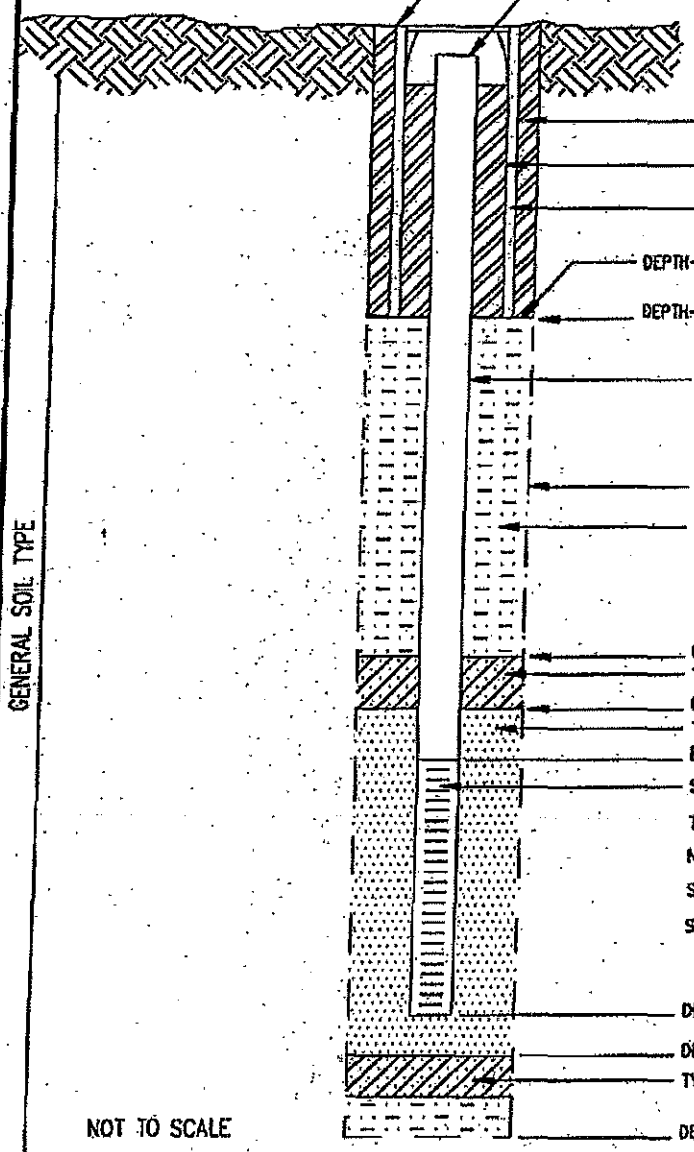
LOGGED BY GJH — DATE 7/14/93 - 7/15/93

CHECKED BY GGL — DATE 1/3/94

PG. 1 OF 1

BORING NO. M&A-101

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.48 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.24 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	6/4 INCHES
TYPE OF BACKFILL	GROUT
DEPTH-TOP OF SEAL	6.5 FEET
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	7.5 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	10 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	20 FEET
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	20 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/16/93 / 7/16/93

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.44 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 13 FEET LOGGED BY CNH CHECKED BY CJH/CGL DATE 1/3/94

BORING NO. ____

WELL NO. M&A-102

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1		7					
2	SS-1	13	24	6	20		(FILL) DRY, DENSE, TAN, COARSE TO FINE SAND, LITTLE FINE GRAVEL, TRACE ASH, TRACE RED BRICK, TRACE SILT.
3		24					
4		6					
5							
6	SS-2	6 5	24	8	120		(LACUSTRINE) DAMP, VERY STIFF, DARK BROWN SILT, LITTLE CLAY, TRACE FINE SAND, TRACE FINE GRAVEL.
7		8 7					
8							
9		3					
10	SS-3	7	24	21	600		(LACUSTRINE) MOIST, VERY STIFF, GRAY/TAN SILT, SOME FINE SAND, TRACE FINE GRAVEL.
11		7 12					
12							
13		2					
14	SS-4	7	24	22	150		(LACUSTRINE) WET, VERY STIFF, GRAY SILT AND CLAY, LITTLE FINE SAND, TRACE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNO_3 PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/16/93 / 7/16/93 WELL NO. M&A-102

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IL0005071808 PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.44 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 13 FEET LOGGED BY CNH CHECKED BY CJH/GGL DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		10					
		14					
15							
16							
17		3					
		5					
18	SS-5		24	21	50		(LACUSTRINE) WET, STIFF, BROWN/GRAY SILT, SOME CLAY, LITTLE FINE SAND, TRACE FINE GRAVEL.
		7					
		10					
19							
20							(LACUSTRINE) GRAY SILT AND CLAY
21		3					
		9					
22	SS-6		24	21	30		(LACUSTRINE) DAMP, HARD, GRAY SILT, SOME FINE SAND, LITTLE CLAY.
		30					
		40					
23							BOTTOM OF BORING AT 23 FEET. WELL INSTALLED AT 12 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-102

PG. 1 OF 1

PROJECT/CUENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

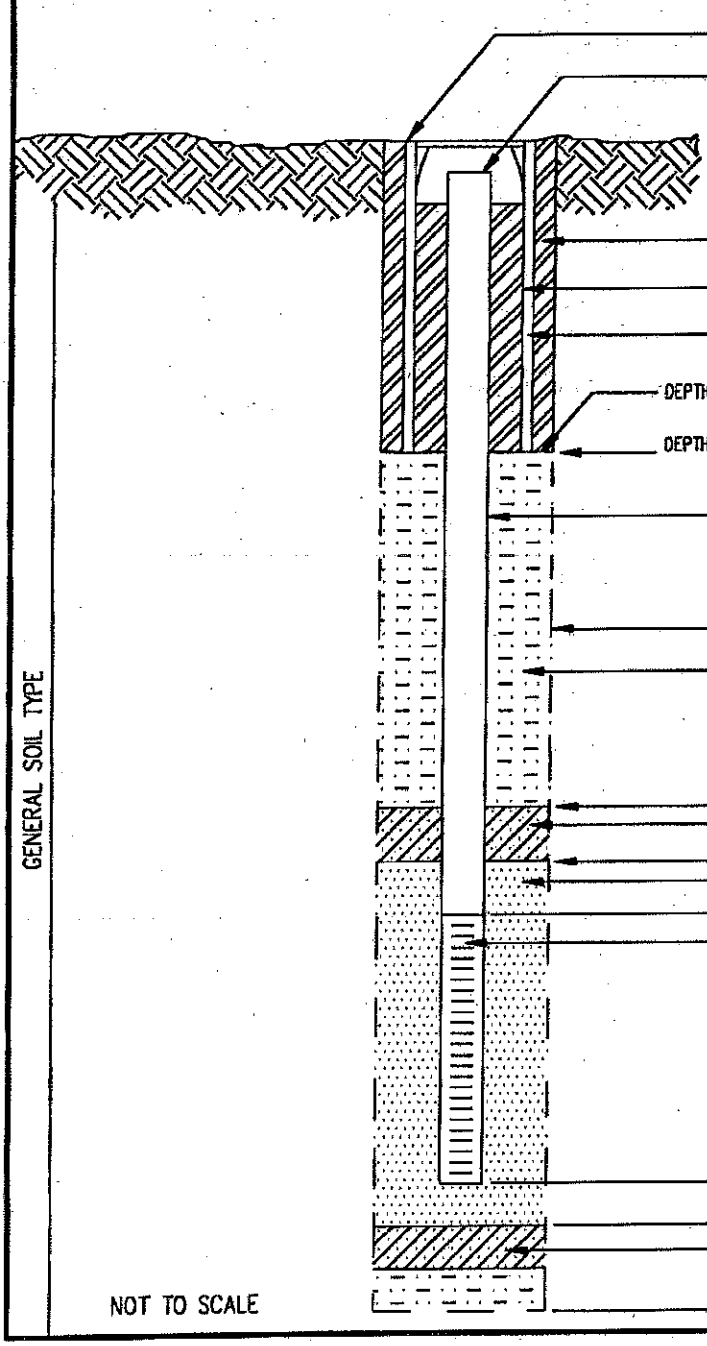
CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

LOGGED BY CNH — DATE 7/16/93

CHECKED BY GGL — DATE 1/3/94

BORING NO. M&A-102

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.44 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.22 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	2 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	2 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	12 FEET
DEPTH-TOP OF SEAL, IF ANY	12 FEET
TYPE OF SEAL	BENTONITE/NATIVE MATERIAL
DEPTH-BOTTOM OF BOREHOLE	23 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 7/17/93 / 7/17/93 — WELL NO. M&A-103

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.26 — T. 40 N R. 12 E. — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.21 FEET — CONTRACTOR FOX DRILLING — FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET — LOGGED BY CNH — CHECKED BY CJH/CGL — DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1		4					
2	SS-1	5	24	8	40		(FILL) DAMP, MEDIUM DENSE, BROWN FINE SAND AND SILT, TRACE MEDIUM GRAVEL, LITTLE BLACK ASH.
3		5					
4		7					
5							
6	SS-2	2 2 2 3	24	19	150		(LACUSTRINE) WET, MEDIUM, GRAY SILT AND CLAY, LITTLE FINE SAND, TRACE FINE GRAVEL.
7							
8							
9							
10	SS-3	2 7 10 12	24	19	65		(LACUSTRINE) MOIST, VERY STIFF, GRAY CLAY AND SILT, LITTLE FINE GRAVEL.
11							
12							
13							
14	SS-4	7 10	24	21	25		(LACUSTRINE) MOIST, VERY STIFF, GRAY CLAY, SOME SILT, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER.

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.17 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/17/93 / 7/17/93 WELL NO. M&A-103

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL SECTION 33,2b T. 40 N R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.21 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET LOGGED BY CNH CHECKED BY CJH/GDL DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		12					
		14					
15							
16							
17		3					
18	SS-5	5	24	21	10		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, TRACE FINE SAND.
		7					
19		11					
20							
21		24					(LACUSTRINE) DAMP, HARD, BROWN SILT AND CLAY.
22	SS-6	41	24	21	130		(LACUSTRINE) DRY, HARD, GRAY, FINE SAND, SOME SILT.
		60					
23		58					
24							
25		24					
26	SS-7	39	24	20	12		(LACUSTRINE) DRY, HARD, GRAY, FINE SAND.
		47					
27		57					

BOTTOM OF BORING AT 27 FEET.
WELL INSTALLED AT 13.5 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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MONITORING WELL INSTALLATION DIAGRAM

M&A-103

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

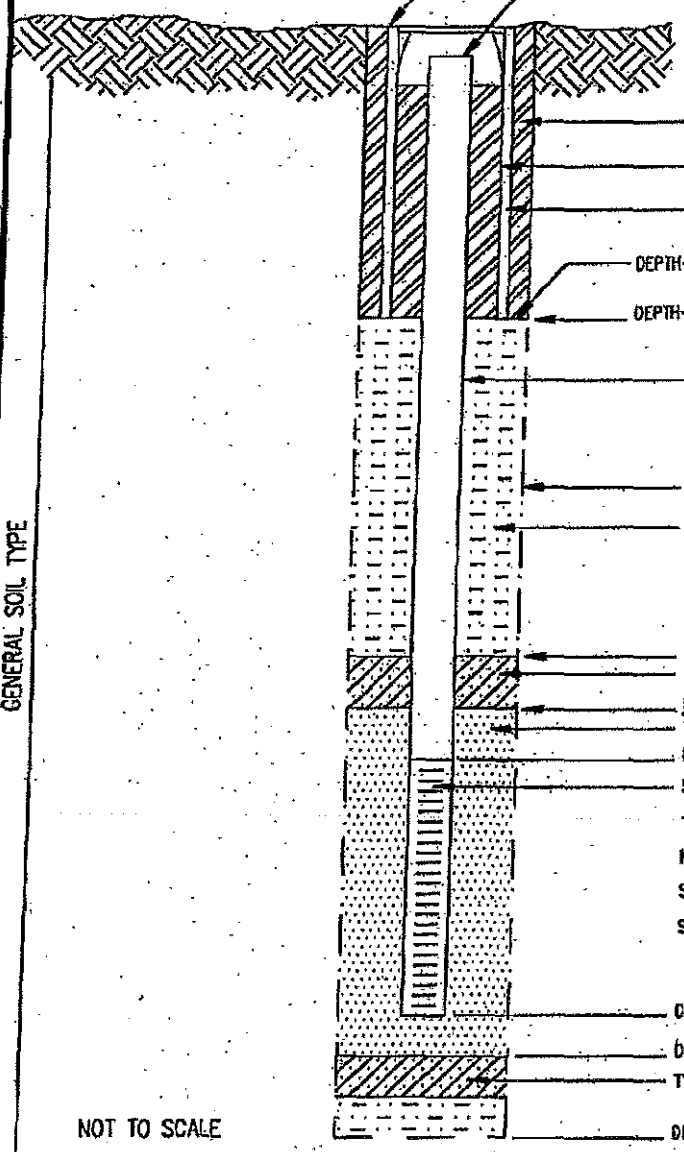
CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

LOGGED BY CNH — DATE 7/17/93

CHECKED BY GGL — DATE 1/3/94

BORING NO. M&A-103

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.53 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.21 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1.5 FEET
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1.5 FEET
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	3 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	3.5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	13.5 FEET
DEPTH-TOP OF SEAL, IF ANY	13.5 FEET
TYPE OF SEAL	BENTONITE/GROUT
DEPTH-BOTTOM OF BOREHOLE	27 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/16/93 / 7/16/93 WELL NO. M&A-104

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N. R. 12 E. DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.50 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET LOGGED BY CNH CHECKED BY CJH/GCL DATE 1/3/94

SAMPLE							
DEPTH FT.	TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1		3					
2	SS-1	3	24	16	18		(FILL) DRY, MEDIUM DENSE, BROWN, MEDIUM TO COARSE SAND, LITTLE SILT, LITTLE FINE GRAVEL, TRACE BLACK ASH.
3		9					
		7					
4							
5		2					
6	SS-2	3	24	19	50		(LACUSTRINE) MOIST, MEDIUM, GRAY/BROWN SILT, LITTLE FINE SAND, LITTLE FINE GRAVEL, LITTLE CLAY.
		3					
7		4					
8							
9		3					
10	SS-3	7	24	20	400		(LACUSTRINE) MOIST, VERY STIFF, GRAY/BROWN SILT, LITTLE CLAY, TRACE FINE SAND, TRACE COARSE SAND.
		13					
11		19					
12							
13		5					
	SS-4	10	24	21	70		(LACUSTRINE) WET, HARD, GRAY CLAY, SOME SILT, TRACE FINE SAND, TRACE FINE GRAVEL.
14							

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 7/16/93 / 7/16/93 — WELL NO. M&A-104

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E. — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.50 FEET — CONTRACTOR FOX DRILLING — FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET — LOGGED BY CNH — CHECKED BY CJH/CGL — DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		16					
		15					
15							
16							
17		5					
18	SS-5	7	24	21	70		(LACUSTRINE) WET, VERY STIFF, GRAY CLAY, SOME SILT, TRACE FINE SAND.
		9					
		14					
19							
20							
21		15					
22	SS-6	25	24	21	75	SHALY CLEAVAGE	(LACUSTRINE) DRY, HARD, GRAY SILT AND FINE SAND, TRACE FINE GRAVEL.
		35					
		50					
23							
24							
25		8					(LACUSTRINE) DRY, VERY STIFF, BROWN SILT AND FINE SAND.
26	SS-7	16	24	16	500		
		43					(TILL) WET, HARD, BROWN SILT AND CLAY, LITTLE FINE SAND.
		30					
27							BOTTOM OF BORING AT 27 FEET. WELL INSTALLED AT 12 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-104

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

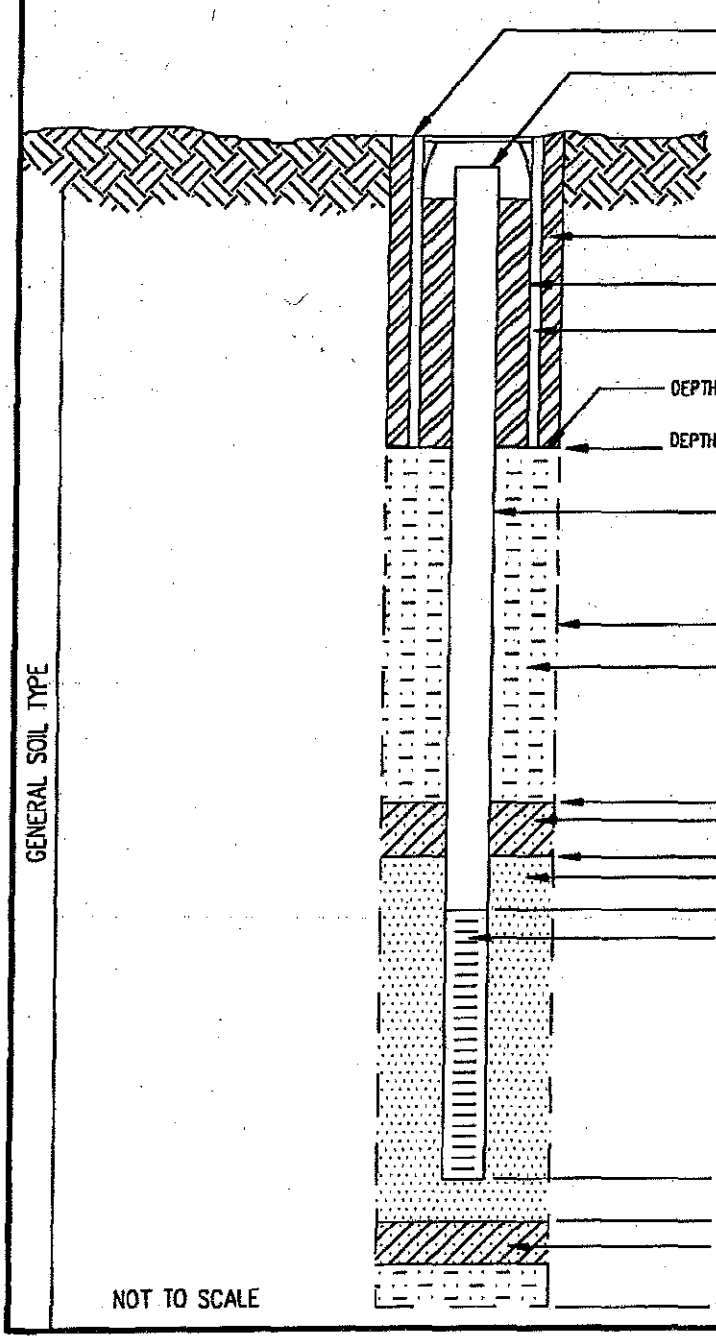
CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

LOGGED BY CNH — DATE 7/16/93

CHECKED BY GGL — DATE 1/3/94

BORING NO. M&A-104

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.53 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.27 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	2 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	2 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	12 FEET
DEPTH-TOP OF SEAL, IF ANY	12 FEET
TYPE OF SEAL	BENTONITE/NATIVE MATERIAL
DEPTH-BOTTOM OF BOREHOLE	27 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.17 BORING NO. ____

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/15/93 / 7/15/93 WELL NO. M&A-105

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N. R. 12 E. DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.56 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET LOGGED BY CNH CHECKED BY CJH/CGL DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0						6 INCH BRASS SAMPLE LINERS UTILIZED	CONCRETE
1		5					
2	SS-1 C	8	24	13	7		(FILL) MOIST, MEDIUM DENSE, BROWN SILT, SOME FINE SAND, TRACE FINE GRAVEL, BLACK MATERIAL TOP OF LINER.
	B	10					
3	A	11					
4							
5		3					
6	SS-2 C	3	24	14	14		(FILL) MEDIUM, LOOSE, GRAY/TAN SILT, SOME FINE SAND, TRACE FINE GRAVEL.
	B	5					
7	A	5					
8							
9	D	5					
10	SS-3 C	10	24	20	1		(LACUSTRINE) DAMP, HARD, GRAY SILT, TRACE FINE SAND.
	B	18					
11	A	21					
12							
13		3					
14	SS-4 C	5	24	18	10		(LACUSTRINE) DAMP, VERY STIFF, GRAY CLAY, LITTLE SILT, TRACE FINE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 7/15/93 / 7/15/93 — WELL NO. M&A-105

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.55 FEET — CONTRACTOR FOX DRILLING — FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET — LOGGED BY CNH — CHECKED BY CJH/CGL — DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14	B	9					
	A	11					
15							BOTTOM OF BORING AT 15 FEET. WELL INSTALLED AT 12 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-105

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

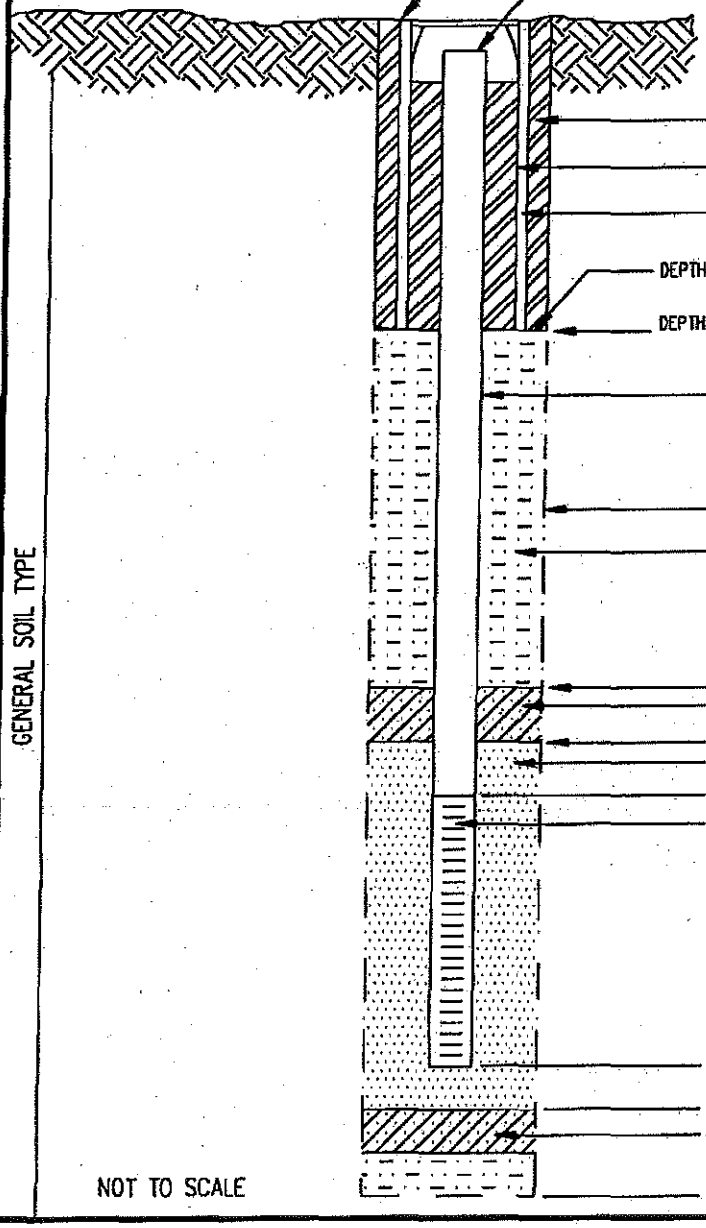
CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

LOGGED BY CNH — DATE 7/15/93

CHECKED BY GGL — DATE 1/3/94

BORING NO. M&A-105

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.57 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.28 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	2 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	2 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	12 FEET
DEPTH-TOP OF SEAL, IF ANY	12 FEET
TYPE OF SEAL	BENTONITE/NATIVE MATERIAL
DEPTH-BOTTOM OF BOREHOLE	15 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 11/5/93 / 11/5/93 — WELL NO. M&A-106

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.56 FEET — CONTRACTOR FOX DRILLING — FOREMAN DON EGER

GROUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY CJH — DATE 11/29/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							CONCRETE
1		4					(FILL) DAMP, LOOSE, BROWN, MEDIUM SAND, TRACE FINE GRAVEL, TRACE SILT.
2	SS-1	5 8	24	15	24		
3		9 2					
4	SS-2	5 5	24	15	27	GRAY MOTTLING	(LACUSTRINE) MOIST, STIFF, TAN SILT, SOME CLAY, TRACE FINE GRAVEL.
5		6 2					
6	SS-3	4 6	24	20	24	GRAY MOTTLING	(LACUSTRINE) WET, STIFF, TAN SILT, LITTLE CLAY, TRACE FINE GRAVEL.
7		8 4					
8	SS-4	6 9	24	22	28		(LACUSTRINE) WET, VERY STIFF, TAN SILT, TRACE CLAY, TRACE FINE GRAVEL.
9		11 5					
10	SS-5	10 13	24	22	45		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, TRACE CLAY, TRACE MEDIUM SAND.
11		11 4				YELLOW MEDIUM SAND VEIN	(FLUVIAL)
12	SS-6	7 9	24	24	32		(LACUSTRINE) MOIST, VERY STIFF, GRAY/BROWN SILT, SOME CLAY, TRACE FINE GRAVEL.
13		12 2					
14	SS-7	4	24	22	22		(LACUSTRINE) MOIST, STIFF, GRAY SILT AND CLAY, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

ROD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. B7024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 11/5/93 / 11/5/93

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.56 FEET CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH LOGGED BY GGL CHECKED BY CJH DATE 11/29/94

BORING NO.

WELL NO. M&A-106

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		4					
		8					
15		2					
		7					
16	SS-8	6	24	15	24		(LACUSTRINE) WET, STIFF, GRAY SILT, LITTLE CLAY, TRACE FINE GRAVEL.
		7					
17							BOTTOM OF BORING AT 17 FEET. WELL INSTALLED AT 13 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-106

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

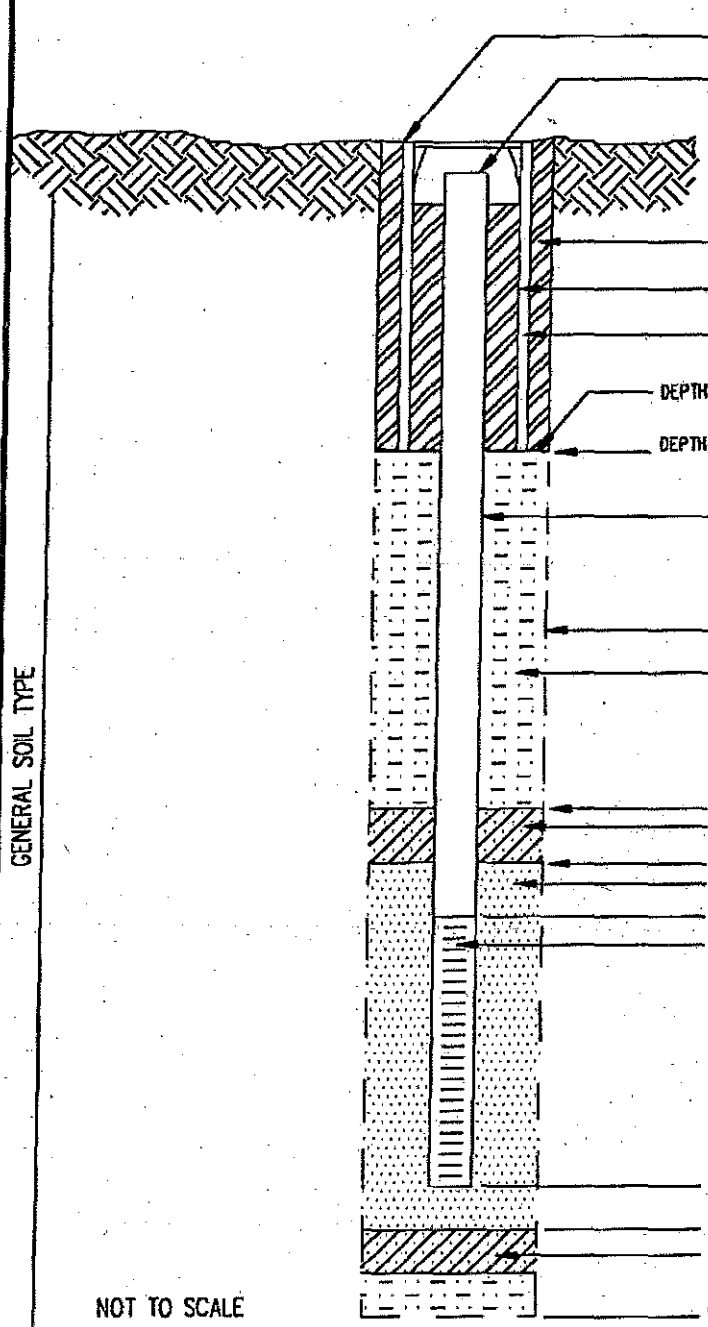
CONTRACTOR FOX DRILLING — DRILLER DON ECER

LOGGED BY GGL — DATE 11/5/93

CHECKED BY C.M — DATE 11/29/94

BORING NO. M&A-106

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.56 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.26 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	2 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	3 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	13 FEET
DEPTH-TOP OF SEAL, IF ANY	13 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	17 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 7/17/93 / 7/17/93 — WELL NO. M&A-107

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N — R. 12 E — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.50 FEET — CONTRACTOR FOX DRILLING — FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET — LOGGED BY CNH — CHECKED BY CJH/GGL — DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							CONCRETE
1							(FILL) DRY, LOOSE, BLACK ASHY MATERIAL.
2		7					
3	SS-1	12	24	21	12		(LACUSTRINE) DRY, VERY STIFF, BROWN SILT, SOME FINE SAND, LITTLE FINE GRAVEL.
4		10					
5		16					
6	SS-2	7	24	6	18		(LACUSTRINE) WET, VERY STIFF, BROWN SILT, SOME FINE SAND, TRACE FINE GRAVEL.
7		7					
8		11					
9							
10	SS-3	5	24	21	10		(LACUSTRINE) WET, VERY STIFF, BROWN/GRAY SILT, LITTLE CLAY, LITTLE FINE SAND, TRACE FINE GRAVEL.
11		8					
12		13					
13		13					
14	SS-4	3	24	21	8.0		(LACUSTRINE) DAMP, STIFF, GRAY CLAY, LITTLE FINE GRAVEL, TRACE FINE SAND, TRACE SILT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. B7024.17 BORING NO. ____

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/17/93 / 7/17/93 WELL NO. M&A-107

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N. R. 12 E. DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.50 FEET CONTRACTOR FOX DRILLING FOREMAN GARY YOCKEY

GROUNDWATER EL./DEPTH ~ 5 FEET LOGGED BY CNH CHECKED BY CJH/GGL DATE 1/3/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		5					
		6					
15							BOTTOM OF BORING AT 15 FEET. WELL INSTALLED AT 12 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-107

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

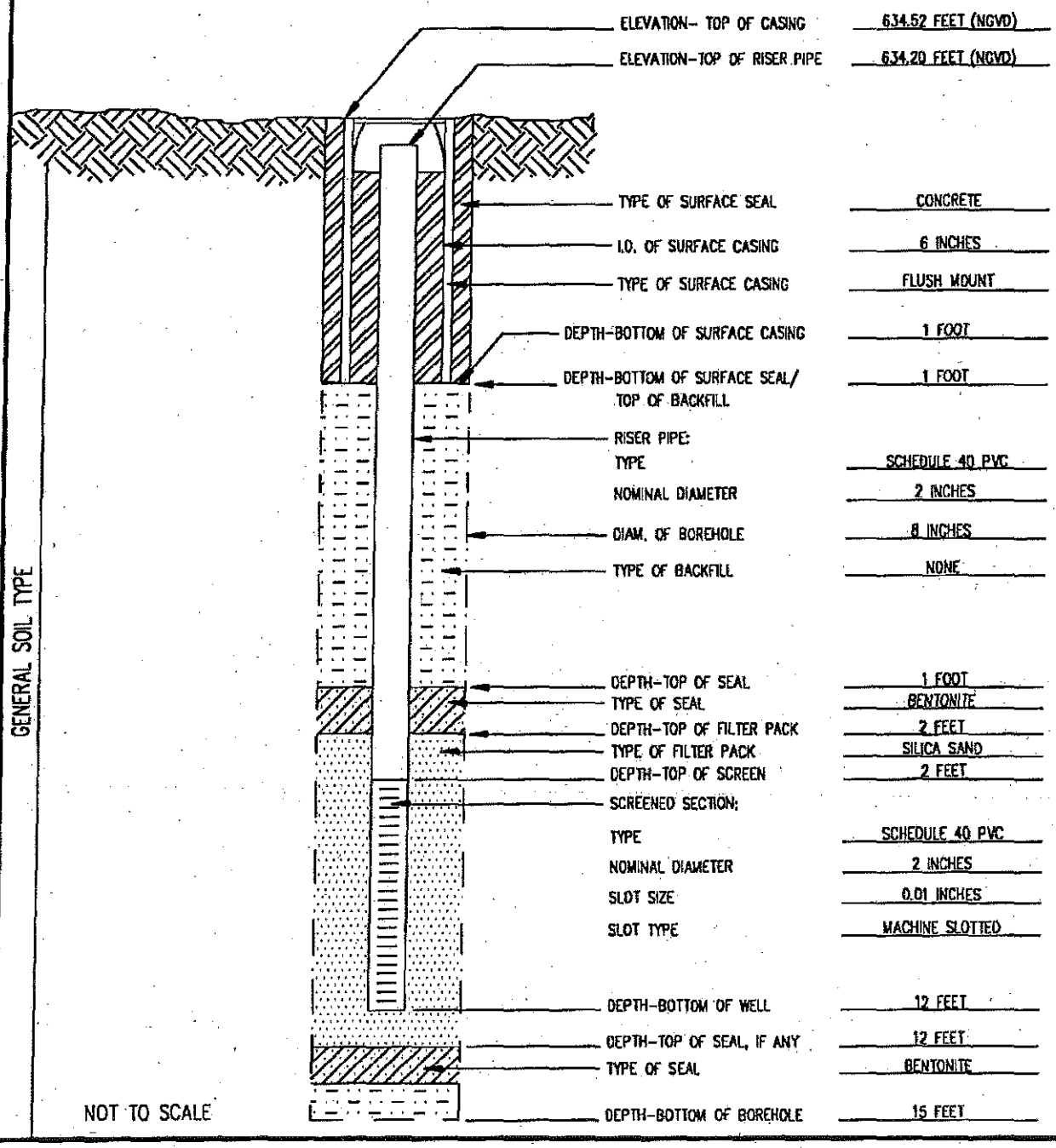
CONTRACTOR FOX DRILLING — DRILLER GARY YOCKEY

LOGGED BY CNH — DATE 7/17/93

CHECKED BY CGL — DATE 1/3/94

BORING NO. M&A-107

LOCATION SEE SITE PLAN



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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 11/5/93 / 11/5/93 — WELL NO. M&A-108

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E. — DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.45 FEET — CONTRACTOR FOX DRILLING — FOREMAN DON EGER

GROUNDWATER EL./DEPTH ~ 4.5 FEET — LOGGED BY GGL — CHECKED BY CJH — DATE 11/29/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							CONCRETE
2	SS-1	23, 23, 17, 11	24	9	22		(FILL) MOIST, DENSE, BLACK, MEDIUM SAND, LITTLE FINE GRAVEL, TRACE SILT, TRACE METAL (DUST & SHAVINGS), TRACE SLAG.
4	SS-2	4, 5, 5, 4	24	16	22	PETROLEUM ODOR SMALL POCKETS OF OIL PRESENT	(LACUSTRINE) WET, STIFF, GRAY SILT, LITTLE FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
6	SS-3	2, 2, 3, 5	24	14	25		(LACUSTRINE) MOIST, MEDIUM, GRAY/TAN SILT AND CLAY, TRACE FINE GRAVEL.
8	SS-4	4, 8, 19, 15	24	20	28		(LACUSTRINE) DAMP, HARD, GRAY SILT, TRACE FINE SAND, TRACE FINE GRAVEL.
10	SS-5	4, 8, 12, 14	24	24	24		(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT, TRACE CLAY, TRACE FINE SAND, FINE GRAVEL.
12	SS-6	7, 8, 13, 15	24	23	27		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, TRACE FINE GRAVEL.
14							

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 11/5/93 / 11/5/93

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IL0005071808

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.45 FEET CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH ~ 4.5 FEET LOGGED BY CGL CHECKED BY CJH DATE 11/29/94

BORING NO. ____

WELL NO. M&A-108

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14							
15	SS-7	1 3 7 8	24	14	26		SIMILAR TO SS-6
16							BOTTOM OF BORING AT 16 FEET. WELL INSTALLED AT 13 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-108

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

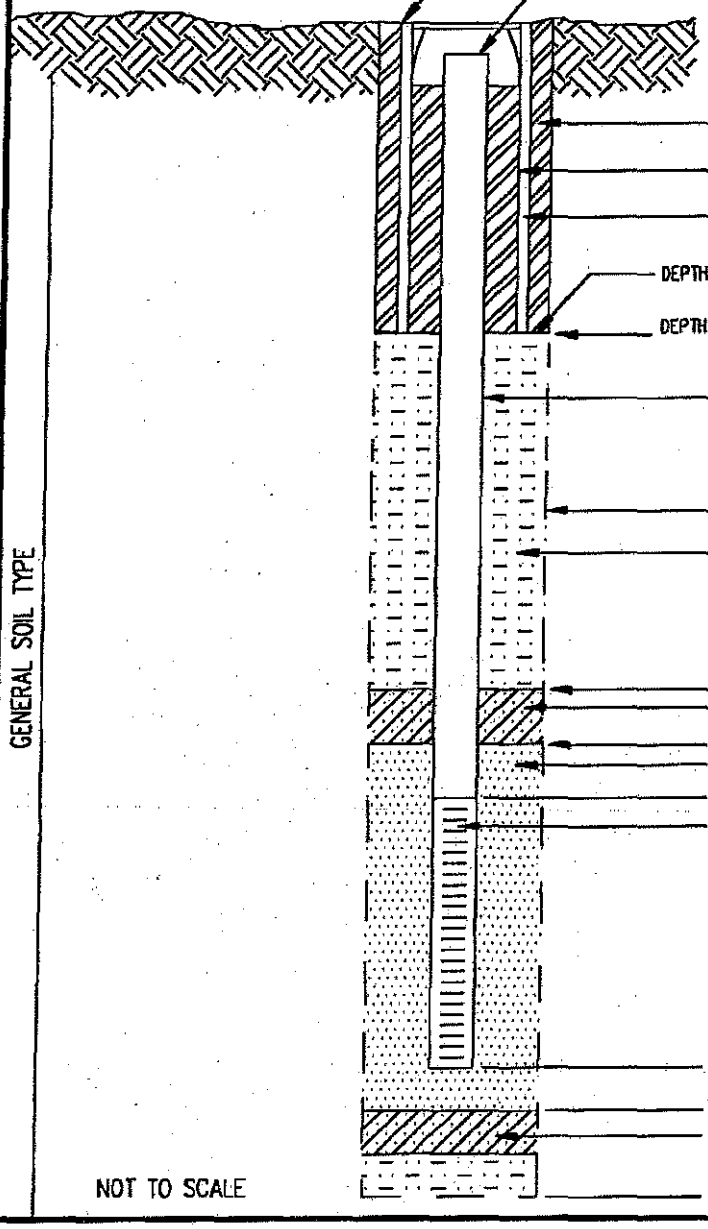
CONTRACTOR FOX DRILLING — DRILLER DON EGER

LOGGED BY GGL — DATE 11/5/93

CHECKED BY CJH — DATE 11/29/94

BORING NO. M&A-108

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.45 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.09 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	2 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	3 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	13 FEET
DEPTH-TOP OF SEAL, IF ANY	13 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	16 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL. — PROJ. NO. 87024.17 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 11/2/93 / 11/4/93 — WELL NO. M&A-109

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL. — SECTION 33.2b — T. 40 N R. 12 E — DRILLING EQUIPMENT 4" WASH AND DRIVE CASING

GROUND ELEVATION (NGVD) 634.52 FEET — CONTRACTOR FOX DRILLING — FOREMAN DON EGER

GROUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY CJH — DATE 11/29/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							CONCRETE
1							1–25' NO SAMPLES TAKEN
25		14					
26	SS-1	20	24	22	210		(LACUSTRINE) DAMP, HARD, GRAY SILT, LITTLE FINE SAND, TRACE CLAY, TRACE FINE GRAVEL.
27		24					
		27					(LACUSTRINE) MOIST, HARD, GRAY FINE SAND, TRACE SILT.
28	SS-2	20	24	20	850	VERTCAL FRACTURING OBSERVED 1-1/2" BLACK MEDIUM SAND VEIN AT 27'-10" SATURATED WITH USED SOLVENT.	(LACUSTRINE) DAMP, HARD, GRAY SILT, TRACE CLAY, TRACE FINE SAND, TRACE FINE GRAVEL.
29		25					
30	SS-3	30	24	24	80		(LACUSTRINE) MOIST, HARD, GRAY SILT, TRACE CLAY, TRACE FINE GRAVEL.
		30					
		17					
31		17					
		20					
32	SS-4	38	24	18	28	WASHWATER CHANGED AT 30' BEFORE ROLLER BIT ADVANCED AHEAD OF CASING.	(FLUVIAL) WET, VERY DENSE, GRAY/BLACK, FINE SAND, TRACE SILT, TRACE MEDIUM SAND.
		16					
		22					
33		30					
		29					
34	SS-5	23	24	22	35		(TILL) DAMP, HARD, GRAY SILT, TRACE FINE SAND, TRACE CLAY, TRACE FINE GRAVEL.
		33					
		37					
35		40					
		15					
36	SS-6	32	24	24	38	NO APPARENT FRACTURING	SIMILAR TO SS-5
		40					
37		48					

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17 BORING NO. ____

BORING LOCATION SEE SITE PLAN DATE START/FINISH 11/2/93 / 11/4/93 WELL NO. M&A-109

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N R. 12 E DRILLING EQUIPMENT 4" WASH AND DRIVE CASING

GROUND ELEVATION (NGVD) 634.52 FEET CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH ____ LOGGED BY GGL CHECKED BY CJH DATE 11/29/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
38	SS-7	19, 23, 30	24	23	28		(TILL) DAMP, HARD, GRAY SILT, TRACE CLAY, TRACE FINE GRAVEL.
39		49					
40	SS-8	11, 15, 25	24	22	36		(TILL) DAMP, HARD, GRAY SILT, LITTLE CLAY, TRACE FINE GRAVEL.
41		27					
42	SS-9	13, 19, 33	24	24	50	1/4" FINE SAND VIEN	
43		35					
44	SS-10	20, 32, 34	24	24	48		(TILL) DAMP, HARD, GRAY SILT, TRACE CLAY, TRACE FINE SAND, TRACE FINE GRAVEL.
45		32					
46	SS-11	22, 25, 50	24	20	38		SIMILAR TO SS-10.
47		60					
48	SS-12	26, 57, 93	24	20	48	4" COARSE SAND VIEN	(TILL) WET, VERY DENSE, GRAY SILT AND COARSE SAND, TRACE FINE GRAVEL. (TWO VIENS OF GRAY COARSE SAND, LITTLE SILT).
49		70				3" COARSE SAND VIEN	

BOTTOM OF BORING AT 49.5 FEET.
WELL SET AT 49 FEET.

NOTE: 4" CASING DRIVEN TO 30 FEET ROLLER BIT ADVANCED AHEAD OF CASING TO 49.5 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

ROD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-109

PG. 1 OF 1

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.17

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

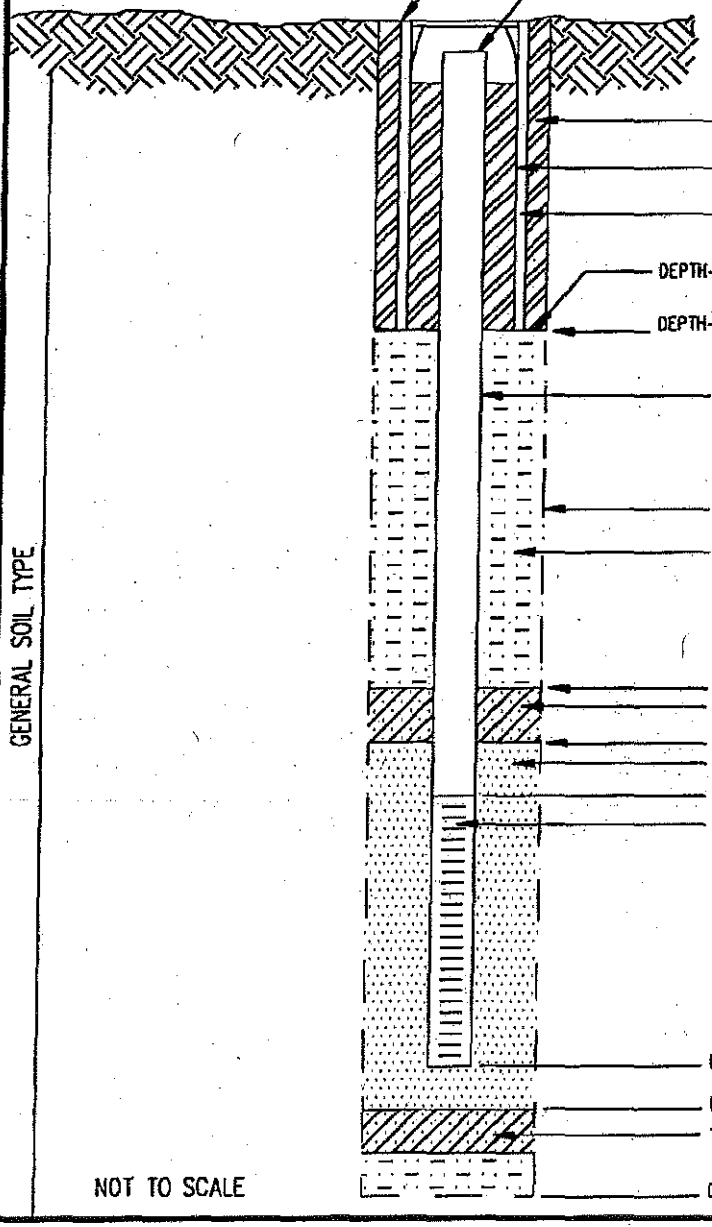
CONTRACTOR FOX DRILLING — DRILLER DON EGER

LOGGED BY GGL — DATE 11/5/93

CHECKED BY CJH — DATE 11/29/94

BORING NO. M&A-109

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.52 FEET (NGVD)
ELEVATION-TOP OF RISER PIPE	634.17 FEET (NGVD)
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	4 INCHES
TYPE OF BACKFILL	GROUT
DEPTH-TOP OF SEAL	33 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	37 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	39.5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	49 FEET
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	49.5 FEET

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.17 BORING NO. ____

BORING LOCATION SEE SITE PLAN DATE START/FINISH 11/5/93 / 11/5/93 WELL NO. M&A-110

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 1 OF 1

QUADRANGLE RIVER FOREST, IL. SECTION 33.2b T. 40 N. R. 12 E DRILLING EQUIPMENT 3-3/4" HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) 634.52 FEET CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH ____ LOGGED BY GGL CHECKED BY CJH DATE 11/29/94

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1							1-25' NO SAMPLES TAKEN
25	D	7					
26	SS-1 C	16	24	24	650		(LACUSTRINE) MOIST, HARD, GRAY SILT, LITTLE FINE SAND, TRACE FINE GRAVEL.
	SS-1 B	26					
27	SS-1 A*	26					
	D	16					
28	SS-2 C	19	24	23	60		(LACUSTRINE) DAMP, HARD, GRAY SILT, TRACE FINE SAND, TRACE CLAY, TRACE FINE GRAVEL.
	SS-2 B	21					
29	SS-2 A*	21					
	D	18					
30	SS-3 C	21	24	24	45		(LACUSTRINE) DAMP, HARD, GRAY SILT, TRACE FINE SAND, TRACE FINE GRAVEL.
	SS-3 B	21					
31	SS-3 A*	28					(FLUVIAL) WET, HARD, GRAY/BLACK, FINE SAND, TRACE SILT.
	D	12					
32	SS-4 C	20	24	24	40		(TILL) DAMP, HARD, GRAY SILT, TRACE FINE SAND.
	SS-4 B*	25					
33	SS-4 A	27					BOTTOM OF BORING AT 33 FEET. WELL SET AT 30 FEET.
							NOTE: * HEADSPACE DETERMINED FROM SOIL FROM THIS BRASS LINER.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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OJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

RING LOCATION SEE SITE PLAN — DATE START/FINISH 8/11/97 / 8/11/97 — WELL NO. M&A-111

E FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 1 OF 3

ADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

OUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY DJS — DATE 10/6/97

EPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1		3					
2	SS-1	4 8	24	16	120	NO ODOR	(FILL) DAMP, VERY STIFF, GRAY/TAN SILT, SOME CLAY, LITTLE COARSE SAND, LITTLE FINE TO MEDIUM GRAVEL, TRACE BLACK MATERIAL.
3		8					
		3					
4	SS-2	3 4	24	14	180	NO ODOR HORIZONTAL AND DIAGONAL FRACTURING	(LACUSTRINE) DAMP, STIFF, TAN/YELLOW SILT, SOME CLAY, LITTLE COARSE SAND, LITTLE FINE GRAVEL.
5		5 3					
6	SS-3	5 6	24	18	260	SLIGHT SOLVENT ODOR TAN/YELLOW MOTTLING WET DIAGONAL FRACTURING	(LACUSTRINE) DAMP, STIFF, GRAY SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
7		7 4					
8	SS-4	5 7	24	18	310	SOLVENT ODOR	(LACUSTRINE) SIMILAR TO SS-3
9		8 8					
10	SS-5	9 11	24	10	240	SOLVENT ODOR WET DIAGONAL FRACTURING	(LACUSTRINE) SIMILAR TO SS-3
11		11 3					
12	SS-6	4 7	24	3	300	SOLVENT ODOR	(LACUSTRINE) MOIST, STIFF, GRAY SILT, SOME CLAY, LITTLE FINE GRAVEL, TRACE COARSE SAND.
13		7 2					
14	SS-7	2	24	12	220	SOLVENT ODOR	(LACUSTRINE) DAMP, STIFF, GRAY CLAY, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

ECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. —

NG LOCATION SEE SITE PLAN — DATE START/FINISH 8/11/97 / 8/11/97 — WELL NO. M&A-111

FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 2 OF 3

DRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

UND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

UNDWATER EL./DEPTH — LOGGED BY GCL — CHECKED BY DJS — DATE 10/6/97

PTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
		3				HORIZONTAL FRACTURING	
		7					
15							
		2					
		2					
16	SS-8		24	18	22	SLIGHT SOLVENT ODOR	(LACUSTRINE) MOIST, STIFF, GRAY CLAY, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
		4					
		6					
17							
		6					
		8					
18	SS-9		24	24	18.0	NO ODOR MOIST DIAGONAL/ HORIZONTAL FRACTURING	(LACUSTRINE) DAMP, VERY STIFF, GRAY CLAY AND SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
		10					
		10					
19							
		3					
		6					
20	SS-10		24	24	2.5	NO ODOR	(LACUSTRINE) SIMILAR TO SS-9
		18					
		29					
21							
		23					
		38					
22	SS-11		24	22	9.5	NO ODOR SHALY CLEAVAGE & HORIZONTAL FRACTURING FOR ENTIRE FINE SAND STRATUM	(LACUSTRINE) DAMP, VERY DENSE, GRAY VERY FINE SAND AND SILT, TRACE COARSE SAND.
		67					
		75					
23							
		20					
		20					
24	SS-12		24	22	0.0	NO ODOR	(LACUSTRINE) SIMILAR TO SS-11
		27					
		28					
25							
		7					
		7				NO ODOR HORIZONTAL DIAGONAL FRACTURING	(LACUSTRINE) DAMP, STIFF GRAY SILT, LITTLE CLAY, LITTLE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
26	SS-13		24	20	0.0		
		22					(LACUSTRINE) SIMILAR TO SS-11
		22					
27							
		8				NO ODOR	(LACUSTRINE) DAMP, LOOSE, BLACK/WHITE MEDIUM SAND, TRACE SILT.
28	SS-14	16	24	22	1.5		

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

ROD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE

(GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

OJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

RING LOCATION SEE SITE PLAN — DATE START/FINISH 8/11/97 / 8/11/97 — WELL NO. M&A-111

E FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 3 OF 3

ADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

OUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY DJS — DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		18 17 8				NO ODOR DIAGONAL FRACTURING	(LACUSTRINE) DAMP/DRY, VERY STIFF, GRAY SILT, LITTLE CLAY, LITTLE MEDIUM GRAVEL, TRACE COARSE SAND.
30	SS-15	15 19	24	18	0.0		
31		10 8				NO ODOR BLACK & WHITE BANDING	(OUTWASH) WET, MEDIUM DENSE, BLACK/WHITE MEDIUM SAND, TRACE COARSE SAND, TRACE SILT.
32	SS-16	10 18	24	22	0.0		
33		22 9					
34	SS-17	12 17	24	18	0.0	NO ODOR	(TILL) MOIST/DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, LITTLE COARSE SAND, LITTLE FINE TO MEDIUM GRAVEL.
35		11					BOTTOM OF BORING AT 35 FEET. WELL INSTALLED AT 33 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-111

ROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.82

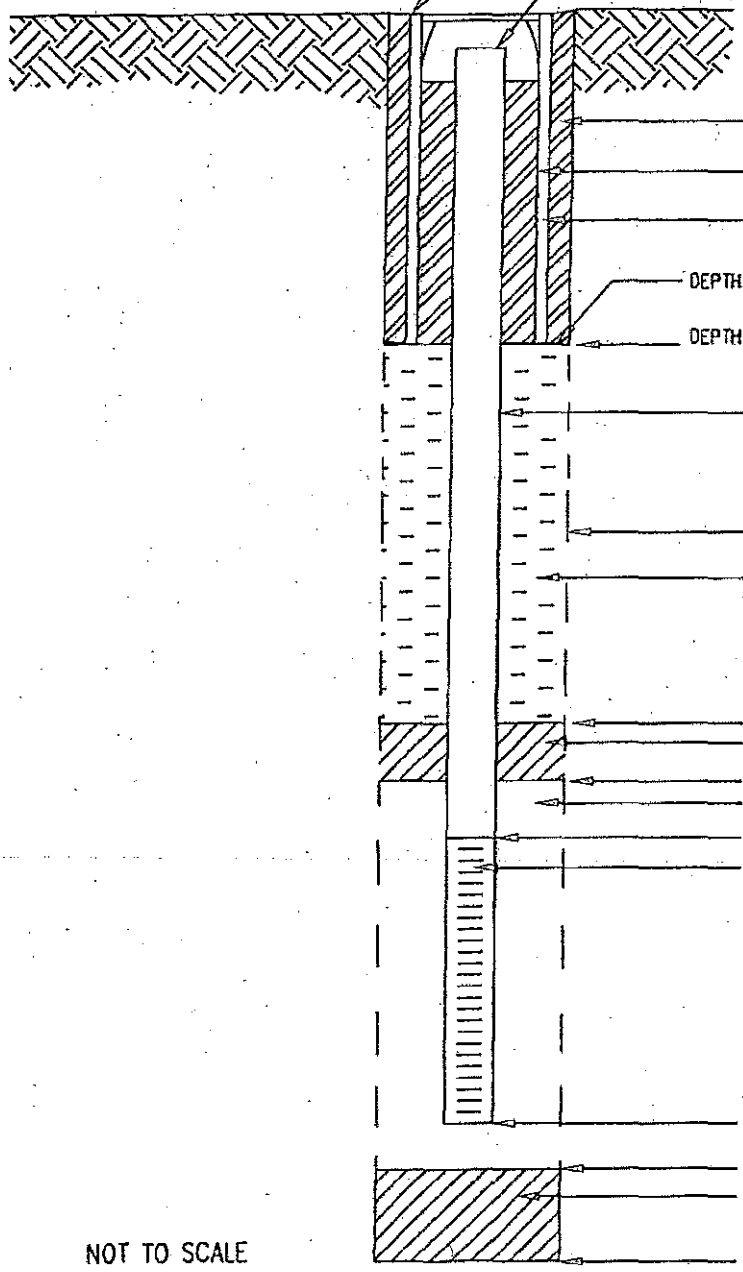
OCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

ONTRACTOR D&G DRILLING — DRILLER DENNIS

OGGED BY GGL — DATE 8/11/97

HECKED BY DJS — DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.39
ELEVATION-TOP OF RISER PIPE	634.13
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	27 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	28 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	33 FEET
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	35 FEET

NOT TO SCALE

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MONITORING WELL INSTALLATION DIAGRAM

M&A-112

OJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

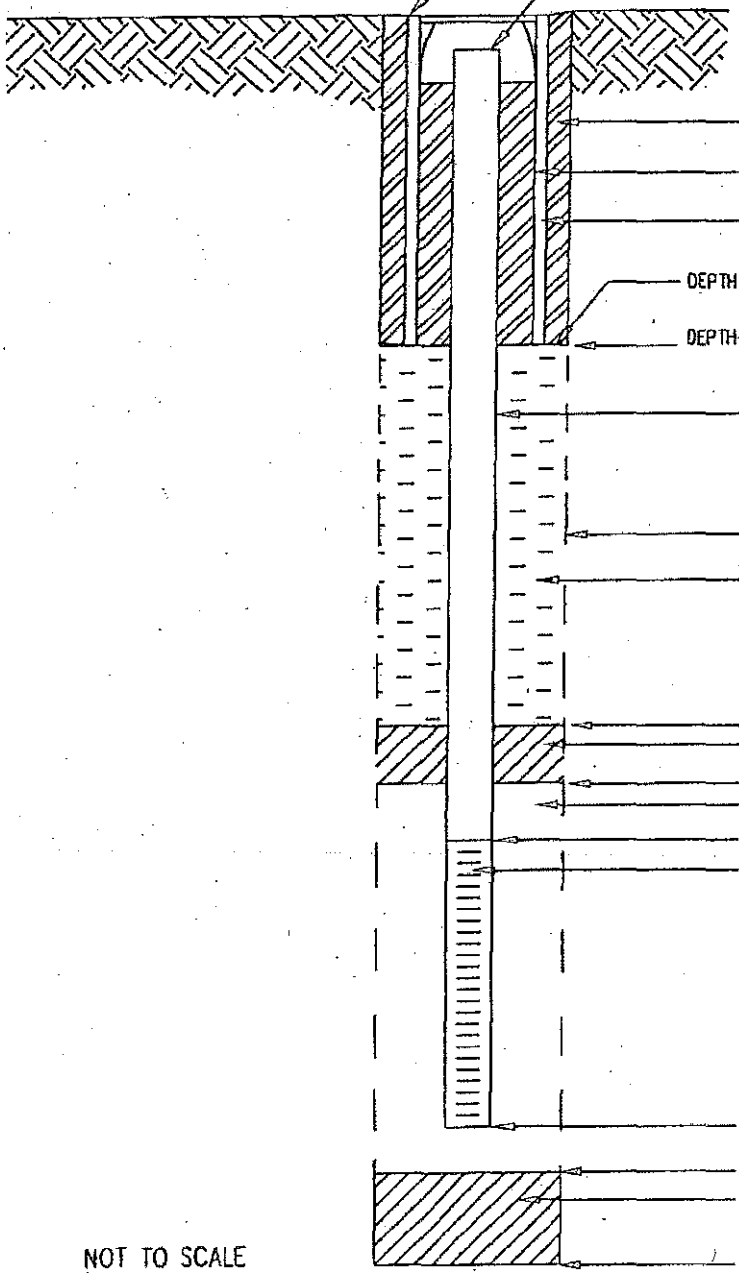
CATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

NTRACTOR D&G DRILLING DRILLER DENNIS

GGED BY GGL DATE 8/12/97

IECKED BY DJS DATE 10/6/97

LOCATION SEE SITE PLAN, REFER TO BORING LOG M&A 113



ELEVATION- TOP OF CASING	634.47
ELEVATION-TOP OF RISER PIPE	634.18
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	15 FEET

NOT TO SCALE

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OJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82 BORING NO. ——

RING LOCATION SEE SITE PLAN DATE START/FINISH 8/11/97 / 8/12/97 WELL NO. M&A-113

E FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 1 OF 3

ADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) —— CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

OUNDWATER EL./DEPTH —— LOGGED BY DJS/CGL CHECKED BY GGL DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1		4					(FILL) DAMP, MEDIUM DENSE, GRAY/BROWN MEDIUM SAND, LITTLE COARSE SAND.
2	SS-1	10 8	24	16	0.0		(FILL) DAMP, MEDIUM DENSE, BLACK MEDIUM SAND, TRACE FINE GRAVEL.
3		5 2					
4	SS-2	4 4	24	16	7.0		(LACUSTRINE) DAMP, FIRM, GRAY SILT AND CLAY, LITTLE FINE GRAVEL, TRACE MEDIUM SAND, TRACE COARSE SAND
5		3 3					
6	SS-3	4 3	24	15	125		(LACUSTRINE) DAMP, FIRM, GRAY SILT AND CLAY, TRACE MEDIUM SAND, TRACE COARSE SAND
7		4 3					
8	SS-4	4 7	24	2	20		(LACUSTRINE) SIMILAR TO SS-3
9		8 3					
10	SS-5	6 9	24	24	5.0		(LACUSTRINE) SIMILAR TO SS-3
11		12 3					
12	SS-6	5 7	24	24	5.0	NO ODOR MINOR DIAGONAL FRACTURING	(LACUSTRINE) DAMP, STIFF, TAN/LIGHT BROWN SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
13		7 2					
14	SS-7	2	24	20	0.0	NO ODOR NO FRACTURING	(LACUSTRINE) SIMILAR TO SS-6

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

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OJECT/CLIENT UNOBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82 BORING NO.

RING LOCATION SEE SITE PLAN DATE START/FINISH 8/11/97 / 8/12/97 WELL NO. M&A-113

E FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808 PG. 2 OF 3

ADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

OUNDWATER EL./DEPTH LOGGED BY DJS/GGL CHECKED BY GGL DATE 10/6/97

EPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		3 4					
16	SS-8	1 2 3	24	18	4.0	NO ODOR WET AROUND GRAVEL, NO FRACTURING	(LACUSTRINE) MOIST, FIRM, GRAY SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
17		3					
18	SS-9	1 1 3	24	18	0.0	NO ODOR WET AROUND GRAVEL, WET DIAGONAL FRACTURING	(LACUSTRINE) MOIST, FIRM, GRAY CLAY, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
19		5 2					
20	SS-10	4 10	24	20	0.0	NO ODOR	(LACUSTRINE) DAMP, STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
21		24					
22	SS-11	11 20 24	24	20	0.0	NO ODOR MINOR DIAGONAL FRACTURING SHALY CLEAVAGE & HORIZONTAL FRACTURING FOR ENTIRE FINE SAND STRATUM NO ODOR	(LACUSTRINE) DRY, VERY DENSE, GRAY VERY FINE SAND, SOME SILT, LITTLE FINE GRAVEL, TRACE COARSE SAND.
23		25 13					(LACUSTRINE) DRY, VERY STIFF, GRAY SILT, LITTLE VERY FINE SAND, LITTLE FINE GRAVEL, TRACE COARSE SAND
24	SS-12	16 28	24	20	0.0		(LACUSTRINE) MOIST/DAMP, DENSE, GRAY FINE SAND, TRACE SILT.
25		22 12					(LACUSTRINE) DAMP/DRY, MEDIUM DENSE, GRAY VERY FINE SAND AND SILT, TRACE COARSE SAND.
26	SS-13	16 16	24	22	0.0	NO ODOR	(LACUSTRINE) DAMP/DRY, VERY STIFF, GRAY SILT, SOME VERY FINE SAND, LITTLE FINE GRAVEL, TRACE COARSE SAND, TRACE CLAY.
27		18 5					
28	SS-14	13	24	20	280	STRONG SOLVENT ODOR	(LACUSTRINE) SIMILAR TO SS-13

)WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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OJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82 BORING NO. ——

RING LOCATION SEE SITE PLAN DATE START/FINISH 8/11/97 / 8/12/97 WELL NO. M&A-113

E FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808 PG. 3 OF 3

ADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) —— CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

OUNDWATER EL./DEPTH —— LOGGED BY DJS/GGL CHECKED BY GGL DATE 10/6/97

EPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		18 17 3				3" MOIST FINE SAND VEIN NO FREE LIQUID AT 25.5 FEET	(LACUSTRINE) DRY, VERY STIFF, GRAY SILT, SOME VERY FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
30	SS-15	11 13 15	24	22	320	STRONG SOLVENT ODOR NO DNAPL	(OUTWASH) WET, MEDIUM DENSE, GRAY FINE SAND, TRACE SILT, TRACE COARSE SAND.
31		4					(LACUSTRINE) DAMP, FIRM, GRAY SILT, LITTLE FINE GRAVEL, TRACE CLAY, TRACE COARSE SAND.
32	SS-16	5 13 16	24	22	320	STRONG SOLVENT ODOR DNAPL OBSERVED IN SOIL 31.5 TO 33 FEET	(OUTWASH) WET, MEDIUM DENSE, GRAY FINE SAND, TRACE SILT, TRACE COARSE SAND.
33		5					(OUTWASH) WET, LOOSE, GRAY FINE SAND, LITTLE SILT, LITTLE COARSE SAND.
34	SS-17	7 14 24	24	20	48	SOLVENT ODOR	(TILL) MOIST/DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
35							BOTTOM OF BORING AT 35 FEET. WELL INSTALLED AT 33 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
▽ WATER TABLE (APPROX)
——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-113

OJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

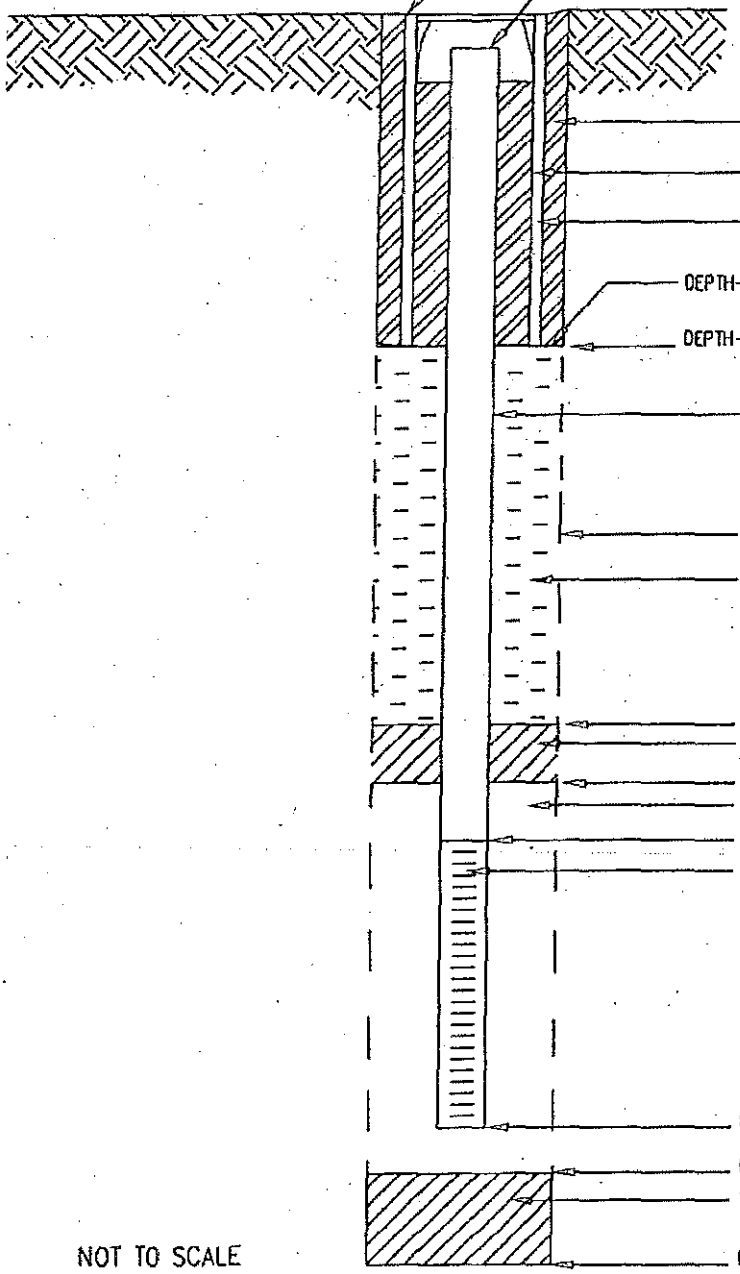
CATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

NTRACTOR D&G DRILLING DRILLER DENNIS

GGED BY GGL DATE 8/12/97

ECKED BY DJS DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.47
ELEVATION-TOP OF RISER PIPE	634.28
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	27 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	28 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	33 FEET
DEPTH-TOP OF SEAL, IF ANY	33 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	35 FEET

NOT TO SCALE

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MONITORING WELL INSTALLATION DIAGRAM

M&A-114

OJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

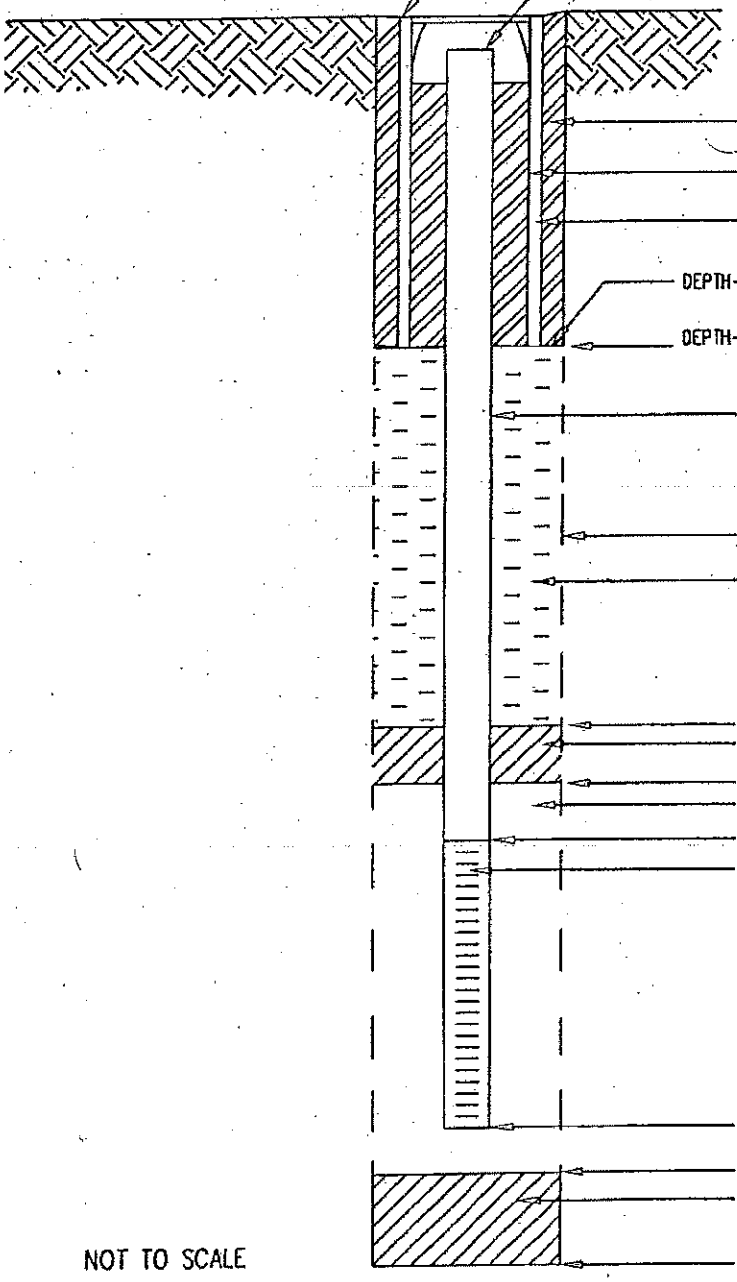
CATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

NTRACTOR D&G DRILLING DRILLER DENNIS

GGED BY DJS DATE 8/7/97

ECKED BY GGI DATE 10/6/97

LOCATION SEE SITE PLAN, REFER TO BORING LOG M&A-115



ELEVATION- TOP OF CASING	634.49
ELEVATION-TOP OF RISER PIPE	634.24
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15 FEET
DEPTH-TOP OF SEAL, IF ANY	15 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	15 FEET 8 INCHES

NOT TO SCALE

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OJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

RING LOCATION SEE SITE PLAN — DATE START/FINISH 8/7/97 / 8/7/97 — WELL NO. M&A-115

E FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 1 OF 3

ADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

OUNDWATER EL./DEPTH ____ — LOGGED BY DJS — CHECKED BY GGL — DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1							CONCRETE
2	SS-1	7, 7, 6	24	16	0.5		(FILL) DRY, MEDIUM DENSE, GRAY/BROWN MEDIUM SAND AND SILT, SOME COARSE SAND, SOME FINE GRAVEL.
3		5, 3					
4	SS-2	3, 4, 4	24	12	3.5		(FILL) SIMILAR TO SS-1
5		3					
6	SS-3	3, –	24	8	0.5	AUGER REFUSAL DRILLED THROUGH 7 INCHES OF CONCRETE WITH FINGER BIT.	(FILL) SIMILAR TO SS-1
							CONCRETE
7		–, 3					(FILL) MOIST, FIRM, GRAY SILT, SOME FINE TO COARSE SAND, TRACE FINE GRAVEL.
8	SS-4	6, 8, 10	24	20	290		
9		3			240	PETROLEUM ODOR	
10	SS-5	5, 7, 8	24	24	280		(LACUSTRINE) DAMP, STIFF GRAY SILT, LITTLE CLAY, TRACE MEDIUM SAND.
11		–					
12	SS-6	–, –, –	24	0	–	BLOW COUNTS NOT RECORDED	NO RECOVERY
13		2					
14	SS-7	2	24	24	105		(LACUSTRINE) SIMILAR TO SS-5

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

OJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

RING LOCATION SEE SITE PLAN DATE START/FINISH 8/7/97 / 8/7/97

E FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

ADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

OUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

OUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY GCL DATE 10/6/97

BORING NO.

WELL NO. M&A-115

EPTH FT.	SAMPLE TYPE and NO.	BLOWS PER 6 IN.	PEN IN.	REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		4 5 3					
16	SS-8	5 6 7	24	24	2.0		(LACUSTRINE) SIMILAR TO SS-5
17		1					
18	SS-9	2 4	24	24	11.0		(LACUSTRINE) SIMILAR TO SS-5
19		6 6					
20	SS-10	12 18	24	24	1.0		(LACUSTRINE) SIMILAR TO SS-5
21		34			350	SHALY CLEAVAGE & HORIZONTAL FRACTURING	(LACUSTRINE) DRY, DENSE, GRAY VERY FINE SAND.
22	SS-11	12 28 33	24	24	0.5		(LACUSTRINE) DAMP, HARD, GRAY SILT, SOME MEDIUM SAND, LITTLE CLAY.
23		40					(LACUSTRINE) DRY, VERY DENSE, GRAY VERY FINE SAND AND SILT, LITTLE FINE TO MEDIUM GRAVEL.
24	SS-12	3 11 24	24	24	320		(LACUSTRINE) DAMP, STIFF, GRAY SILT, SOME VERY FINE SAND.
25		20				WET	
26	SS-13	16 21 27	24	24	310		(LACUSTRINE) DAMP, HARD, GRAY SILT, SOME VERY FINE SAND, TRACE FINE TO MEDIUM GRAVEL.
27		30				0.5-INCH VEIN DRY MEDIUM SAND AT 27 FEET	
28	SS-14	8 13	24	24	2.5		(LACUSTRINE) DRY, MEDIUM DENSE, GRAY VERY FINE SAND, SOME SILT.

)WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

JECT/CLIENT UNOBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

ING LOCATION SEE SITE PLAN — DATE START/FINISH 8/7/97 / 8/7/97 — WELL NO. M&A-115

FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 3 OF 3

DRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

UND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

UNDWATER EL./DEPTH ____ — LOGGED BY DJS — CHECKED BY CGL — DATE 10/6/97

PTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
		14					
		15					
29							(OUTWASH) DRY/DAMP, DENSE, BLACK/WHITE COARSE SAND, TRACE SILT.
		18					
		21					
30	SS-15		24	24	0.0		
		23				SHALY CLEAVAGE & HORIZONTAL FRACTURING	
		26					
31							
		17					
		28					
32	SS-16		24	24	0.0		(LACUSTRINE) DRY, VERY DENSE, GRAY SILT AND VERY FINE SAND
		36					
		37					
33							BOTTOM OF BORING AT 33 FEET. WELL INSTALLED AT 33 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

WS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH COREO,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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MONITORING WELL INSTALLATION DIAGRAM

M&A-115

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.82

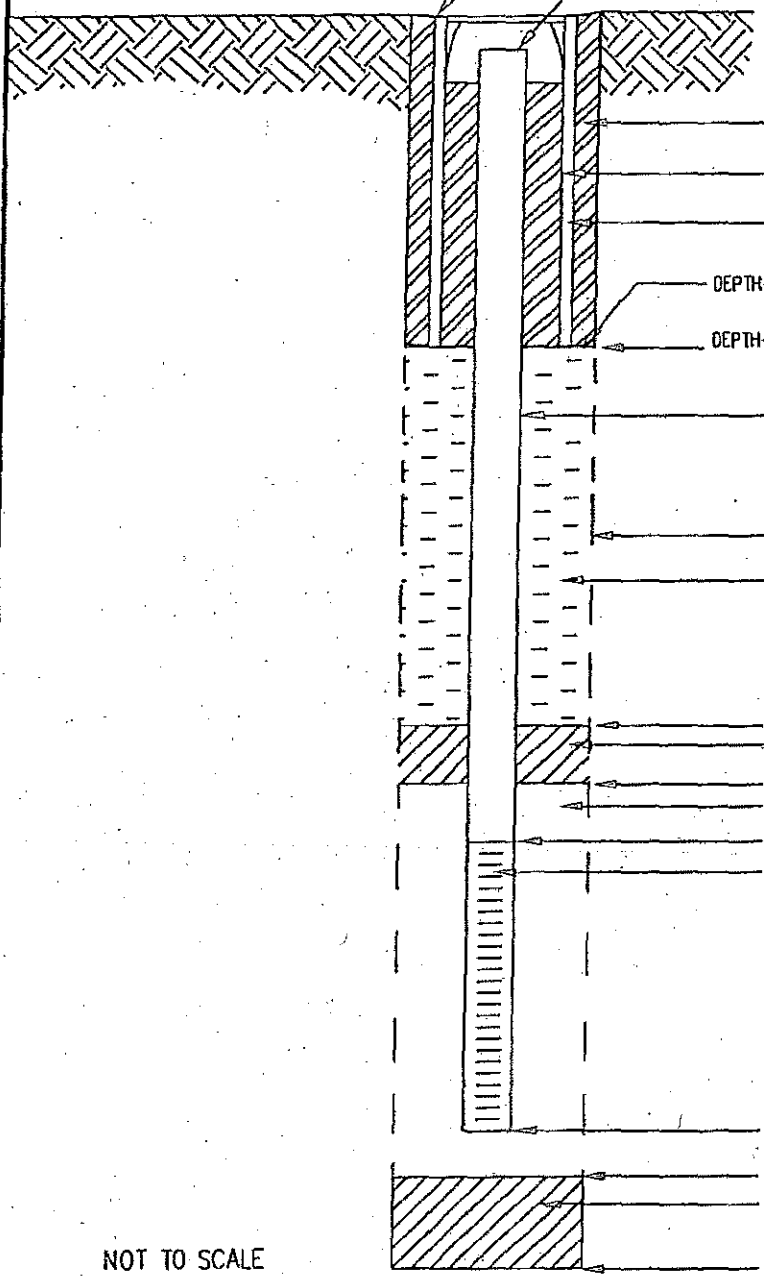
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING — DRILLER DENNIS

LOGGED BY DJS — DATE 8/7/87

CHECKED BY GGI — DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.48
ELEVATION-TOP OF RISER PIPE	634.29
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	27 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	28 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	33 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	33 FEET

NOT TO SCALE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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MONITORING WELL INSTALLATION DIAGRAM

M&A-116

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

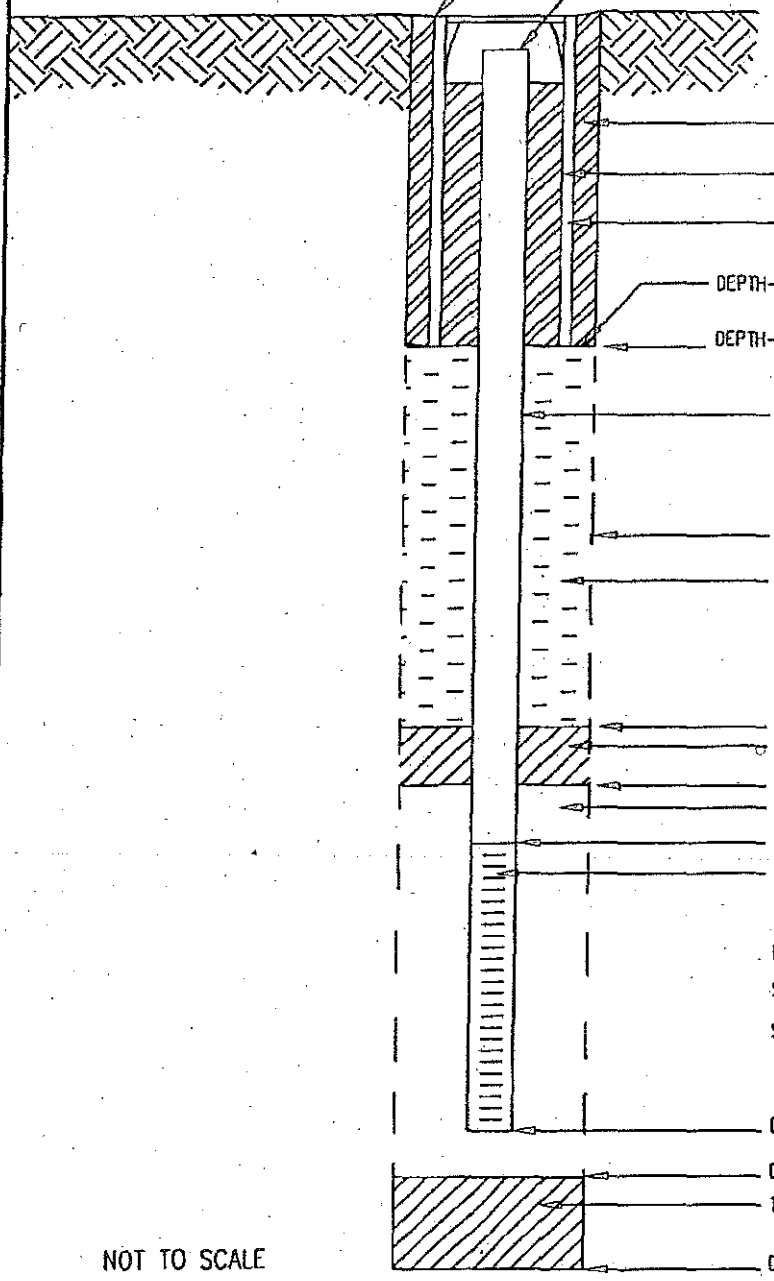
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL.

CONTRACTOR D&G DRILLING DRILLER DENNIS

LOGGED BY DJS DATE 8/6/97

CHECKED BY CGL DATE 10/6/97

LOCATION SEE SITE PLAN, REFER TO BORING LOG M&A-117



ELEVATION- TOP OF CASING	634.48
ELEVATION-TOP OF RISER PIPE	634.18
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	4 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	15 FEET

NOT TO SCALE

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/6/97 / 8/6/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY CGL DATE 10/6/97

BORING NO.

WELL NO. M&A-117

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1							CONCRETE
		5					(FILL) DRY, MEDIUM DENSE, BROWN FINE SAND, TRACE MEDIUM SAND.
2	SS-1	5	24	18	1.0		
		6					(LACUSTRINE) DAMP, STIFF, BROWN SILT, TRACE CLAY.
3		7					
		8					
4	SS-2	11	24	18	3.0		(LACUSTRINE) DAMP, STIFF, BROWN SILT, LITTLE MEDIUM GRAVEL, TRACE CLAY.
		7					
5		5					
		3					
6	SS-3	3	24	12	5.5		(LACUSTRINE) DAMP, STIFF, GRAY/BROWN SILT, LITTLE FINE GRAVEL, LITTLE CLAY, TRACE MEDIUM SAND.
		6					
7		7					
		4					
8	SS-4	5	24	6	2.5		(LACUSTRINE) MOIST, SIMILAR TO SS-3
		7					
9		7					
		3					
10	SS-5	6	24	3	0.5		(OUTWASH) MOIST, VERY STIFF, GRAY SILT, SOME MEDIUM TO COARSE SAND, SOME CLAY.
		9					
11		9					
		10					
12	SS-6	13	24	24	0.0		(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT AND CLAY, TRACE FINE GRAVEL, TRACE COARSE SAND.
		14					
13		15					
		2					
14	SS-7	4	24	.05	0.5		(LACUSTRINE) MOIST, STIFF, GRAY SILT AND FINE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE

(GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

——— CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/6/97 / 8/6/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY GGL DATE 10/6/97

BORING NO.

WELL NO. M&A-117

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		5 7					
16	SS-8	10 12 12	24	24	0.0		(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT AND CLAY, TRACE COARSE SAND.
17		14					
18	SS-9	3 4 4	24	16	0.0		(LACUSTRINE) SIMILAR TO SS-8
19		5 5					
20	SS-10	6 7	24	24	0.0	0.5" DRY WHITE COARSE SAND VEIN	(LACUSTRINE) SIMILAR TO SS-8
21		12 6					
22	SS-11	7 17	24	21	0.0	THE GRAY FINE SANDS EXHIBIT SHALY CLEAVAGE & HORIZONTAL FRACTURING	(LACUSTRINE) DRY, DENSE, GRAY FINE SAND, TRACE MEDIUM SAND, TRACE FINE GRAVEL.
23		15 9					
24	SS-12	18 13	24	12	0.0		(LACUSTRINE) DRY, HARD, GRAY SILT, TRACE FINE SAND, TRACE FINE GRAVEL.
25		24 9					
26	SS-13	14 15	24	20	0.0	3" VEIN OF WET GRAY FINE SAND AT 25.5 FEET	(LACUSTRINE) MOIST, HARD, GRAY SILT, TRACE FINE SAND, TRACE CLAY.
27		15 8				3" VEIN OF WET GRAY SILT AT 27.5 FEET	(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT AND VERY FINE SAND, TRACE FINE TO MEDIUM GRAVEL.
28	SS-14	16	24	22	0.0		

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL. PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/6/97 / 8/6/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY GGL DATE 10/6/97

BORING NO.

WELL NO. M&A-117

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		14 12					
30	SS-15	12 13 12	24	24	0.5	1-INCH FINE SAND VEIN AT 30.5 FEET	(LACUSTRINE) SIMILAR TO SS-14
31		21 34				1-INCH GRAY MEDIUM SAND VEIN AT 31.1 FEET	(LACUSTRINE) DAMP, GRAY SILT, TRACE CLAY.
32	SS-16	45 46	24	24	0.0		(LACUSTRINE) DRY, DENSE, GRAY VERY FINE SAND.
33		34 15				0.5-INCH BLACK/WHITE MEDIUM TO COARSE SAND VEIN AT 31.5 FEET.	
34	SS-17	20 21	24	24	0.0		(LACUSTRINE) DRY, DENSE, GRAY VERY FINE SAND.
35		18 9				THE GRAY FINE SANDS FROM 31.5 TO 35 FEET EXHIBIT SHALY CLEAVAGED HORIZONTAL FRACTURING	
36	SS-18	10 12	24	24	0.0		(LACUSTRINE) DRY, VERY STIFF, GRAY SILT, TRACE COARSE SAND, TRACE FINE SAND.
37		16					

BOTTOM OF BORING AT 33 FEET.
WELL INSTALLED AT 30 FEET.

NOTES 1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.

1. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.
Environmental Consultants & Engineers
Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

MONITORING WELL INSTALLATION DIAGRAM

M&A-117

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

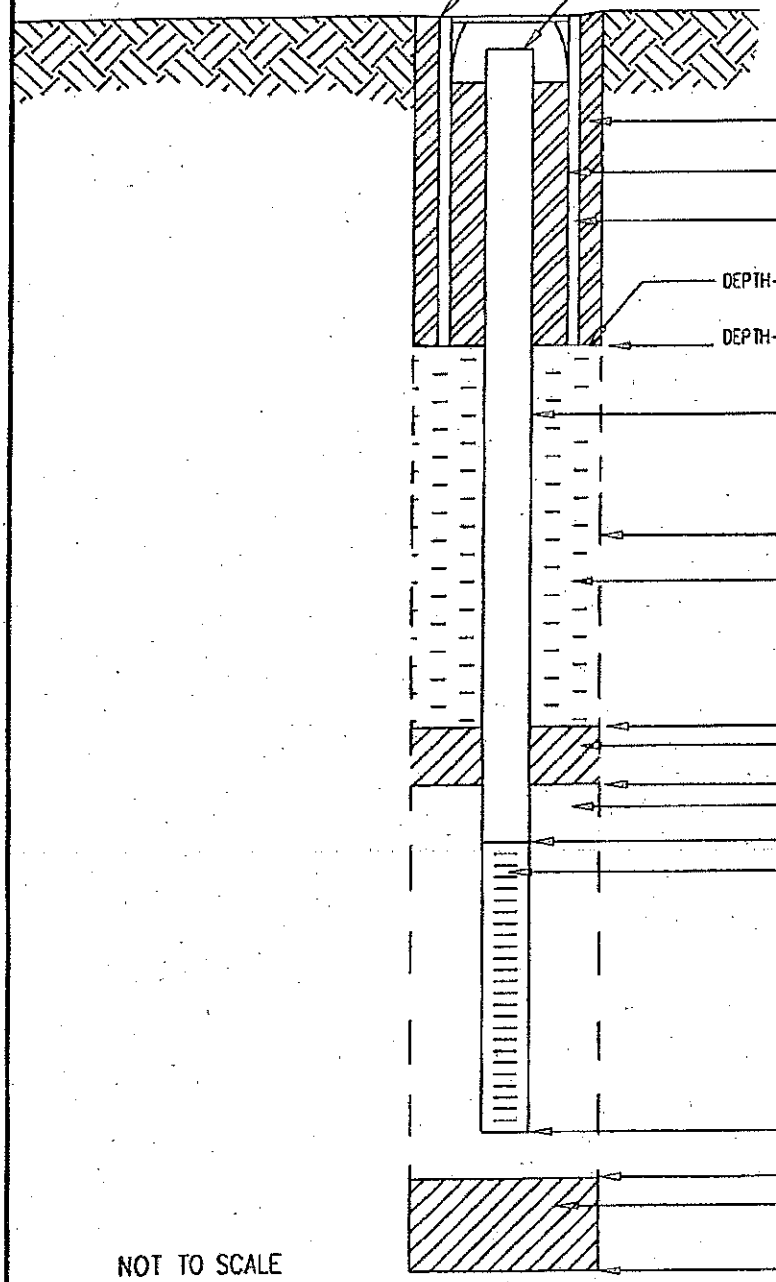
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING DRILLER DENNIS

LOGGED BY DJS DATE 8/6/97

CHECKED BY GGL DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.48
ELEVATION-TOP OF RISER PIPE	634.16
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	24 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	25 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	30 FEET
DEPTH-TOP OF SEAL, IF ANY	31 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	37 FEET

NOT TO SCALE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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MONITORING WELL INSTALLATION DIAGRAM

M&A-118

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

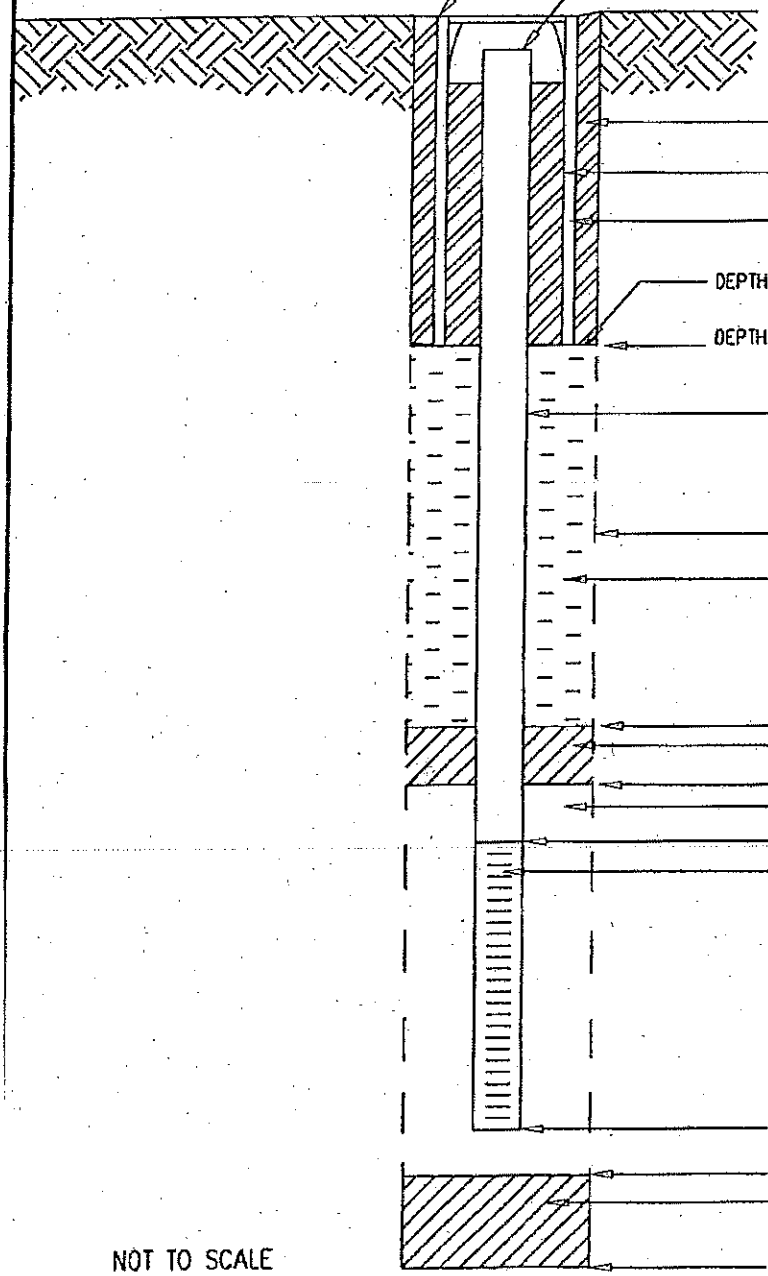
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING DRILLER BOB

LOGGED BY CGL DATE 8/6/97

CHECKED BY DJS DATE 10/6/97

LOCATION SEE SITE PLAN, REFER TO BORING LOG M&A-118



ELEVATION- TOP OF CASING	634.47
ELEVATION-TOP OF RISER PIPE	634.03
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	4 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	4.5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	14.5 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	15 FEET

NOT TO SCALE

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PROJECT/CLIENT: LINDBERG-HEAT TREATING COMPANY | LOCATION: MELROSE PARK, IL | PROJ. NO. 87024.82 | BORING NO.

BORING LOCATION: SEE SITE PLAN | DATE START/FINISH: 8/6/97 / 8/6/97 | WELL NO. M&A-119

SITE FILE NO. 0311860001 | COUNTY: COOK | FEDERAL ID. NO. ILD005071808 | PG. 1 OF 3

QUADRANGLE: RIVER FOREST, IL | SECTION: 33.2b | T. 40N | R. 12E | DRILLING EQUIPMENT: 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD): | CONTRACTOR: D&G DRILLING, INC. | FOREMAN: BOB

GROUNDWATER EL./DEPTH: | LOGGED BY: CGL | CHECKED BY: DJS | DATE: 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							CONCRETE
1		5					
2	SS-1	30 17	24	16	2.5	NO ODOR	(FILL) DRY, VERY DENSE, BLACK/BROWN MEDIUM SAND, LITTLE FINE TO MEDIUM GRAVEL, LITTLE SILT, TRACE SLAG/CINDER.
3		10 2					
4	SS-2	3 5	24	16	1.0	PETROLEUM ODOR SMALL PETROLEUM GLOBULES IN FRACTURES	(LACUSTRINE) DAMP, STIFF, GRAY SILT, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND, TRACE CLAY.
5		4 1					
6	SS-3	2 3	24	20	0.5	TAN MOTTLING SLIGHT PETROLEUM ODOR	(LACUSTRINE) DAMP, FIRM, LIGHT GRAY SILT, SOME CLAY, LITTLE FINE GRAVEL, TRACE COARSE SAND, TRACE MEDIUM GRAVEL.
7		4 4					
8	SS-4	5 9	24	15	0.0	NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, TAN SILT, LITTLE FINE TO MEDIUM GRAVEL, LITTLE CLAY, TRACE COARSE SAND.
9		13 5					
10	SS-5	10 13	24	24	0.0		(LACUSTRINE) DAMP, VERY STIFF, LIGHT GRAY SILT, LITTLE FINE TO MEDIUM GRAVEL, LITTLE CLAY, TRACE COARSE SAND.
11		13 4					
12	SS-6	7 9	24	3	0.0	NO ODOR	
13		11 4					
14	SS-7	7	24	24	0.5	SLIGHT UNDETERMINED ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT UNOBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/6/97 / 8/6/97 WELL NO. M&A-119

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808 PG. 2 OF 3

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN BOB

GROUNDWATER EL./DEPTH LOGGED BY GGL CHECKED BY DJS DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		8 11					
16	SS-8	4 7 9	24	14	0.0	SLIGHT UNDETERMINED ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT AND CLAY, LITTLE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
17		11					
18	SS-9	3 3 5	24	24	0.0	NO ODOR	(LACUSTRINE) DAMP, STIFF, GRAY SILT AND CLAY, LITTLE COARSE SAND, TRACE FINE GRAVEL.
19		8 4					
20	SS-10	8 17	24	24	0.0		
21		35 23					
22	SS-11	57 78	24	20	0.0	NO ODOR SHALY CLEAVAGE & HORIZONTAL FRACTURING FOR ENTIRE FINE SAND STRATUM	(LACUSTRINE) DAMP, VERY DENSE, GRAY VERY FINE SAND AND SILT, TRACE COARSE SAND.
23		77 12					
24	SS-12	18 26	24	24	0.0	NO ODOR	(LACUSTRINE) DAMP/DRY, VERY DENSE, GRAY FINE SAND, TRACE COARSE SAND.
25		32 10					
26	SS-13	15 16	24	22	0.0	NO ODOR 1" FINE SAND VEIN AT ~26.8 FEET	(LACUSTRINE) DAMP/DRY, DENSE, GRAY VERY FINE SAND AND SILT, TRACE COARSE SAND.
27		16 11					
28	SS-14	18	24	24	0.0	NO ODOR	(LACUSTRINE) DRY, DENSE, GRAY VERY FINE SAND AND SILT, TRACE COARSE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 8/6/97 / 8/6/97 — WELL NO. M&A-119

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 3 OF 3

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN BOB

GROUNDWATER EL./DEPTH ____ — LOGGED BY CGL — CHECKED BY DJS — DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		20 23					
		10				NO ODOR DIAGONAL FRACTURING	(LACUSTRINE) DRY, VERY STIFF, DARK GRAY SILT, TRACE FINE GRAVEL, TRACE COARSE SAND, TRACE CLAY.
30	SS-15	18 15	24	20	0.0	BLACK FINE SAND BANDING	(OUTWASH) WET, MEDIUM DENSE, GRAY FINE SAND, TRACE COARSE SAND.
		16			0.0		
31		6				NO ODOR FLOWING SAND JAMMED AUGER, RE-DRILLED 30-34 FEET TO SET WELL.	(OUTWASH) WET, MEDIUM DENSE, WHITE/BLACK COARSE SAND, LITTLE FINE TO MEDIUM GRAVEL, TRACE SILT.
32	SS-16	10 20	24	20	0.0		
		21					
33		7					
34	SS-17	19 22	24	12	0.0	NO ODOR	(TILL) WET, DENSE, GRAY COARSE SAND AND FINE TO MEDIUM GRAVEL, SOME SILT, LITTLE CLAY.
		18					
35							BOTTOM OF BORING AT 35 FEET. WELL INSTALLED AT 34 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-119

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.82

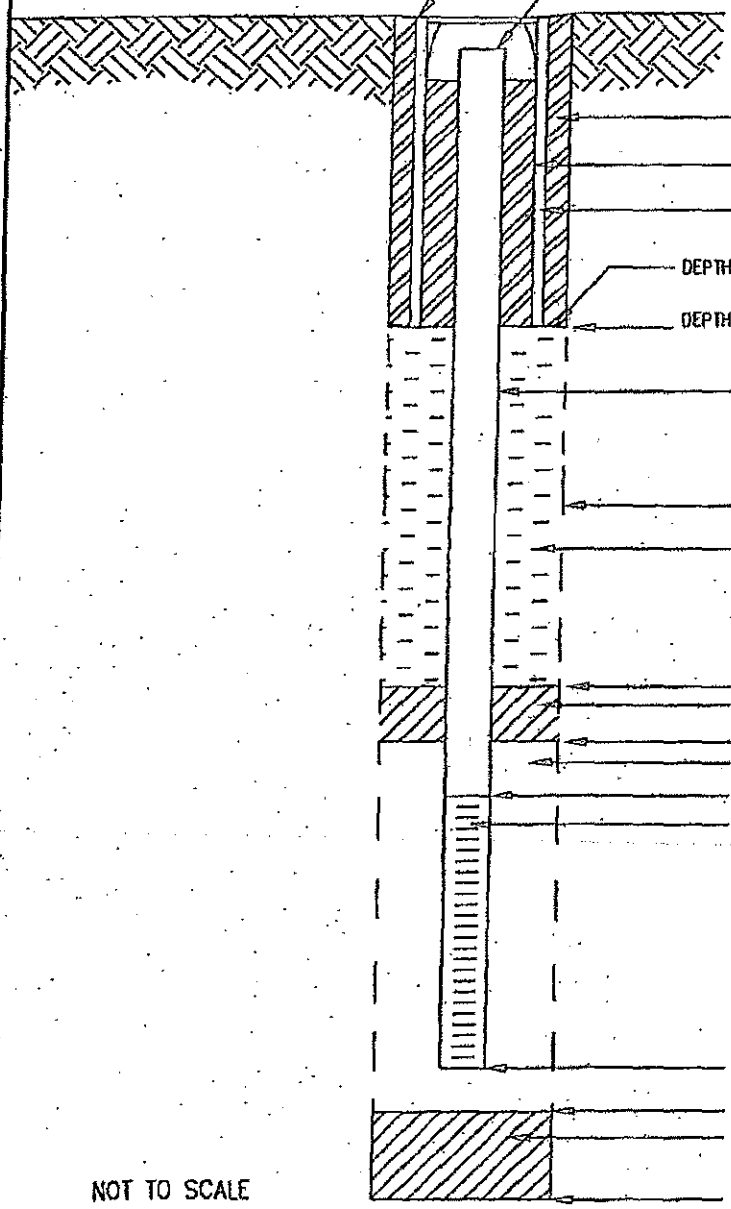
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&C DRILLING — DRILLER BOB

LOGGED BY GG — DATE 8/5/97

CHECKED BY DJS — DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.46
ELEVATION-TOP OF RISER PIPE	634.12
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	27 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	29 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	34 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	35 FEET

NOT TO SCALE

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/5/97 / 8/5/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR O&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY CGL DATE 10/6/97

BORING NO.

WELL NO. M&A-120

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1							CONCRETE
2	SS-1	4, 2, 3	24	15	1.0		(FILL) DAMP, LOOSE, RED/BROWN MEDIUM SAND.
3		3, 2					(LACUSTRINE) DAMP, FIRM, BROWN/BLACK SILT, SOME CLAY.
4	SS-2	2, 3	24	22	0.5	COLOR VARIATION BROWN/BLACK TO GRAY TO MOTTLED	(LACUSTRINE) DAMP, FIRM, GRAY SILT, SOME CLAY.
5		3, 1					
6	SS-3	1, 2	24	20	3.5		(LACUSTRINE) DAMP, FIRM, RED/GRAY SILT, SOME CLAY.
7		3, 4					
8	SS-4	3, 3	24	18	5.0		(OUTWASH) WET, LOOSE, GRAY MEDIUM SAND, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
9		3, 3					
10	SS-5	6, 10	24	24	0.5		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, TRACE MEDIUM SAND.
11		12, 2					
12	SS-6	5, 7	24	21	0.0		(LACUSTRINE) SIMILAR TO SS-5 BOTTOM.
13		10, 2					
14	SS-7	3	24	24	0.5		(LACUSTRINE) DAMP, STIFF, GRAY SILT, LITTLE CLAY, TRACE MEDIUM SAND, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

ROD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/5/97 / 8/5/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY GGL DATE 10/6/97

BORING NO.

WELL NO. M&A-120

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		5 7					

BOTTOM OF BORING AT 15 FEET.
WELL INSTALLED AT 15 FEET.

NOTES:
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
3. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
SM=MACRO CORE SOIL SAMPLE
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE
(GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED, WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-120

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.82

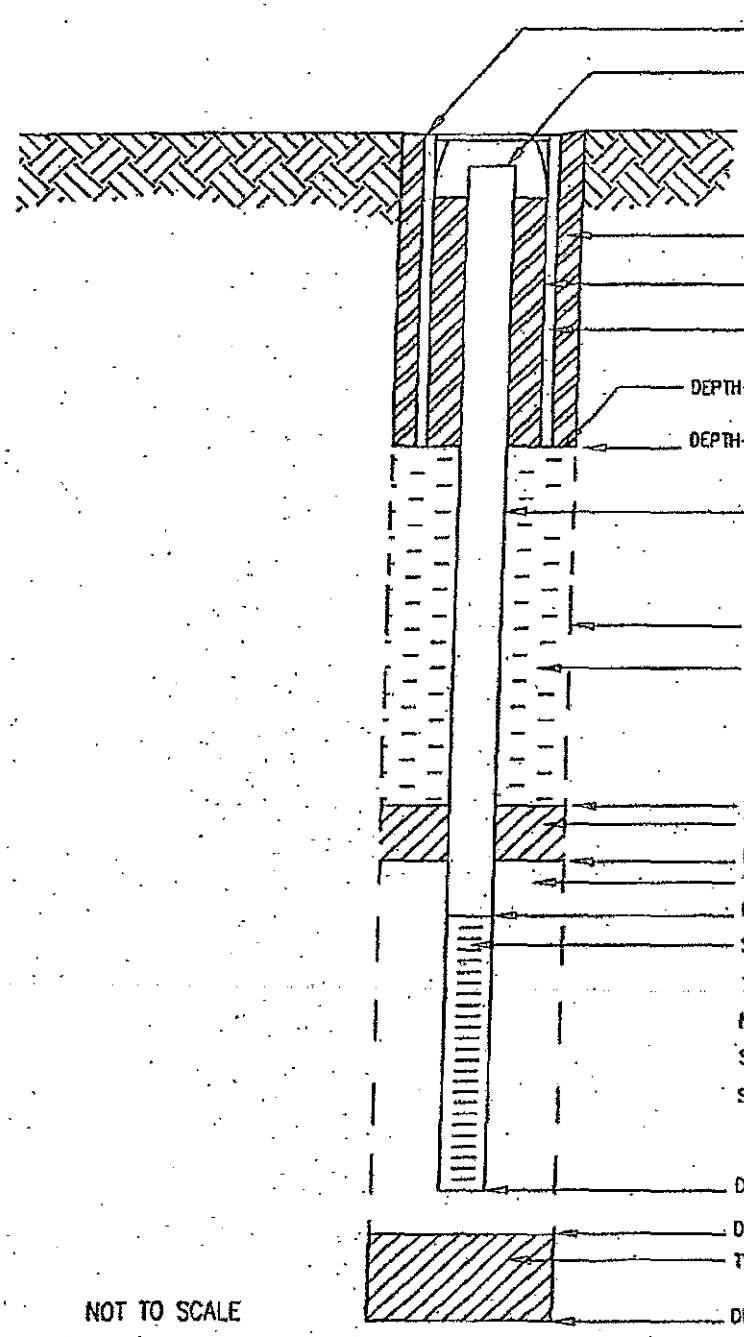
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL

CONTRACTOR D&G DRILLING — DRILLER DENNIS

LOGGED BY DJS — DATE 8/5/97

CHECKED BY GGI — DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.47
ELEVATION-TOP OF RISER PIPE	634.25
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	6 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	15 FEET

NOT TO SCALE

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PROJECT/CLIENT UNDBERG HEAT TREATING COMPANY | LOCATION MELROSE PARK, IL | PROJ. NO. 87024.82 | BORING NO. ____

BORING LOCATION SEE SITE PLAN | DATE START/FINISH 8/5/97 / 8/5/97 | WELL NO. M&A-121

SITE FILE NO. 0311860001 | COUNTY COOK | FEDERAL ID. NO. IDL005071808 | PG. 1 OF 3

QUADRANGLE RIVER FOREST, IL | SECTION 33.2b | T. 40N | R. 12E | DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) ____ | CONTRACTOR D&G DRILLING, INC. | FOREMAN JM

GROUNDWATER EL./DEPTH ____ | LOGGED BY DJS | CHECKED BY GGL | DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1							CONCRETE
		3					(FILL) DRY, LOOSE, LIGHT BROWN MEDIUM SAND, SOME COARSE SAND, LITTLE FINE TO MEDIUM GRAVEL, TRACE CLAY.
2	SS-1	3	24	24	3.5		
		3					
3		3					
		2					(LACUSTRINE) DAMP, FIRM, GRAY SILT.
4	SS-2	3	24	14	0.5		
		4					(LACUSTRINE) MOIST, STIFF, GRAY SILT.
5		4					
		1				1/2-INCH FINE SAND VEIN AT 5.5 FEET	
6	SS-3	1	24	20	0.5		(LACUSTRINE) DAMP, FIRM, GRAY SILT, LITTLE MEDIUM GRAVEL.
		2				PETROLEUM ODOR AND STAINED SOIL 6.5 TO 7 FEET	
7		2					
		1					(LACUSTRINE) DAMP, FIRM, GRAY SILT, LITTLE COARSE SAND.
8	SS-4	4	24	18	1.5		
		3					
9		4				SLIGHT PETROLUEM ODOR	(OUTWASH) WET, LOOSE, GRAY COARSE SAND, SOME SILT, SOME MEDIUM SAND, SOME MEDIUM GRAVEL.
		1					
10	SS-5	6	24	22	14.0		(LACUSTRINE) MOIST, STIFF, GRAY SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
		6					
11		8					
		4					
12	SS-6	8	24	20	1.5		(LACUSTRINE) SIMILAR TO SS-5 BOTTOM.
		10					
13		11					
		1					
14	SS-7	3	24	22	0.5		(LACUSTRINE) SIMILAR TO SS-5 BOTTOM.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

——— CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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Environmental Consultants & Engineers

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. B7024.82 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 8/5/97 / 8/5/97 — WELL NO. M&A-121

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 2 OF 3

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY DJS — CHECKED BY GGL — DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		5, 7, 4					
16	SS-8	5, 7, 8	24	20	0.5		(LACUSTRINE) SIMILAR TO SS-5 BOTTOM
17		2, 3, 5					
18	SS-9	5, 7, 3	24	20	0.0		(LACUSTRINE) SIMILAR TO SS-5 BOTTOM
19							
20	SS-10	6, 23, 29	24	20	0.0		(LACUSTRINE) SIMILAR TO SS-6 BOTTOM
21		15					(LACUSTRINE) MOIST, DENSE, GRAY FINE SAND.
22	SS-11	23, 25, 16	24	22	0.0	THE GRAY FINE SANDS EXHIBIT SHALY CLEAVAGE & HORIZONTAL FRACTURING	(LACUSTRINE) DAMP, SIMILAR TO SS-5 BOTTOM (LACUSTRINE) DAMP, DENSE, GRAY FINE SAND.
23		12					(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
24	SS-12	13, 20, 23	24	20	0.0		(LACUSTRINE) DAMP, DENSE, GRAY VERY FINE SAND, TRACE FINE GRAVEL.
25		13					(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT AND CLAY.
26	SS-13	18, 22	24	22	0.0		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME VERY FINE SAND.
27		17, 11					(LACUSTRINE) WET, VERY STIFF, GRAY SILT AND CLAY, UTTLE MEDIUM GRAVEL.
28	SS-14	13	24	24	0.5		(LACUSTRINE) DRY, GRAY VERY FINE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Environmental Consultants & Engineers
Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82
BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/5/97 / 8/5/97
SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808
QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER
GROUND ELEVATION (NGVD) CONTRACTOR O&G DRILLING, INC. FOREMAN DENNIS
GROUNDWATER EL./DEPTH LOGGED BY DJS CHECKED BY CGL DATE 10/6/97

BORING NO.
WELL NO. M&A-121
PG. 3 OF 3

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		15 17					(LACUSTRINE) DAMP, HARD, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE MEDIUM SAND.
30	SS-15	12 15 18	24	24	0.0		(OUTWASH) DRY, DENSE, BLACK/ WHITE MEDIUM SAND, TRACE SILT.
31		22 7					(TILL) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, LITTLE VERY FINE SAND, TRACE COARSE SAND.
32	SS-16	8 14	24	24	0.0		
33		15					BOTTOM OF BORING AT 33 FEET. WELL INSTALLED AT 33 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
▽ WATER TABLE (APPROX)
——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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Environmental Consultants & Engineers
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MONITORING WELL INSTALLATION DIAGRAM

M&A-121

PROJECT/CUENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

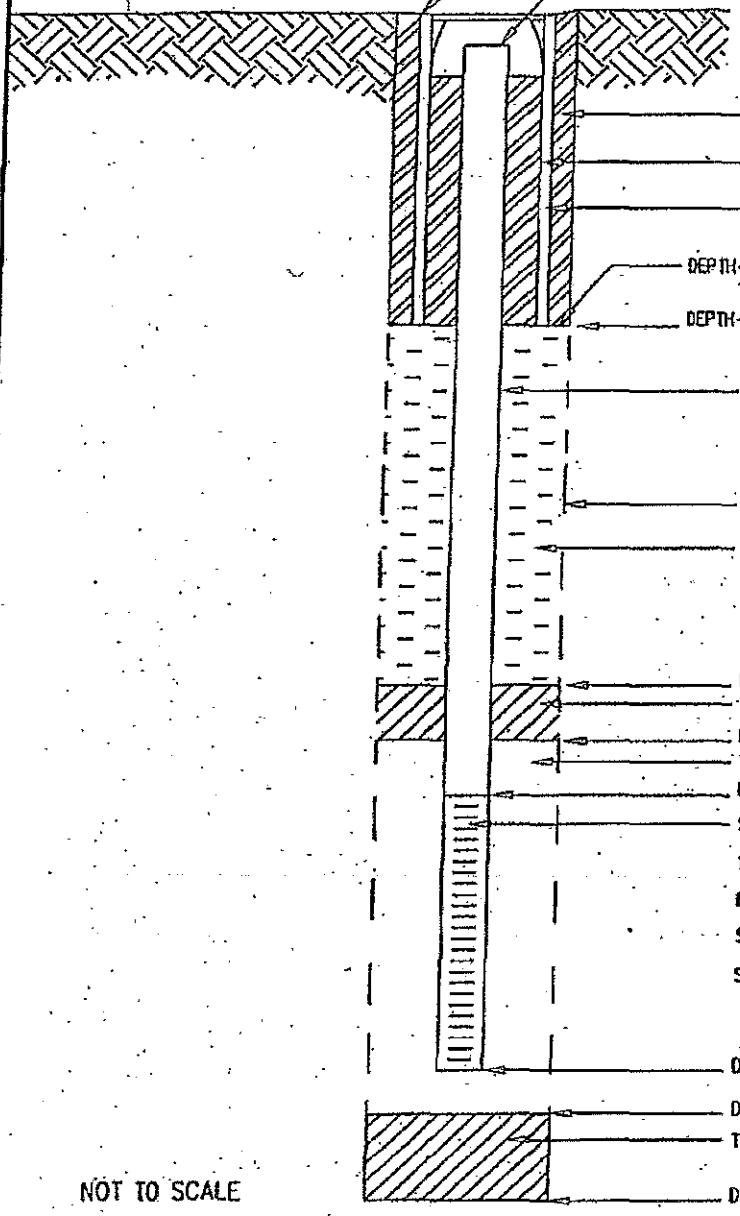
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING DRILLER DENNIS

LOGGED BY DJS DATE 8/5/97

CHECKED BY GGL DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.49
ELEVATION-TOP OF RISER PIPE	634.23
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	27 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	28 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	33 FEET
DEPTH-TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF BOREHOLE	33 FEET

NOT TO SCALE

Mabbett & Associates, Inc.

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/7/97 / 8/7/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) _____ CONTRACTOR D&G DRILLING, INC. FOREMAN JIM

GROUNDWATER EL./DEPTH _____ LOGGED BY GGL CHECKED BY DJS DATE 10/6/97

BORING NO. _____

WELL NO. M&A-122

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							TOP SOIL
1						HAND DUG TO DEPTH OF 3 FEET TO CLEAR POSSIBLE UTILITIES	(FILL) DAMP, BROWN MEDIUM SAND, SOME SILT, SOME CONCRETE RUBBLE, TRACE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
2							
3		2					
4	SS-1	3 3	24	20	5.0	NO ODOR GRAY MOTTLING	(LACUSTRINE) MOIST, FIRM, TAN CLAY, SOME SILT, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
5		4 2					
6	SS-2	3 7	24	20	18.0	NO ODOR DIAGONAL FRACTURING	(LACUSTRINE) DAMP, STIFF, BROWN/GRAY SILT AND CLAY, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
7		7 5					
8	SS-3	8 9	24	16	0.5	NO ODOR	(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT, SOME CLAY, LITTLE COARSE SAND, TRACE FINE GRAVEL.
9		10 3					
10	SS-4	5 5	24	24	5.5	NO ODOR DIAGONAL FRACTURING AT 9'	(LACUSTRINE) MOIST, STIFF, GRAY CLAY, SOME SILT, LITTLE FINE GRAVEL, TRACE MEDIUM GRAVEL, TRACE COARSE SAND.
11		8 6					
12	SS-5	8 11	24	24	0.0	NO ODOR DIAGONAL FRACTURING	(LACUSTRINE) MOIST/WET, VERY STIFF, GRAY CLAY, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
13		13 2					
14	SS-6	3	24	24	0.0	NO ODOR	(LACUSTRINE) SIMILAR TO SS-5

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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Environmental Consultants & Engineers

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.82

BORING LOCATION SEE SITE PLAN DATE START/FINISH 8/7/97 / 8/7/97

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN JIM

GROUNDWATER EL./DEPTH LOGGED BY GGL CHECKED BY DJS DATE 10/6/97

BORING NO.

WELL NO. M&A-122

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		6 9 4					
16	SS-7	5 8 9	24	20	0.0	NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
17		5					
18	SS-8	9 15 34	24	24	0.0	NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
19		15					
20	SS-9	25 37 52	24	20	0.0	NO ODOR SHALY CLEAVAGE & HORIZONTAL FRACTURING FINE SAND STRATUM	(LACUSTRINE) DAMP/DRY, VERY DENSE, GRAY VERY FINE SAND, SOME SILT.
21		21					
22	SS-10	41 55	24	24	0.0	NO ODOR	(LACUSTRINE) SIMILAR TO SS-9
23		42 7					
24	SS-11	12 16 21	24	24	0.0	NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME VERY FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
25		14					
26	SS-12	16 15	24	24	0.0	NO ODOR SHALY CLEAVAGE	(LACUSTRINE) DAMP/DRY, DENSE, GRAY VERY FINE SAND SOME SILT.
27		11 9				NO ODOR DIAGONAL FRACTURE WITH 1/32"	(LACUSTRINE) DAMP, VERY STILL, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
28	SS-13	9	24	20	0.0		

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.82 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 8/6/97 / 8/6/97 — WELL NO. M&A-122

SITE FILE NO. 0311860001 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 3 OF 3

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN JIM

GROUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY DJS — DATE 10/6/97

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		15 20				FINE SAND VEINS	
30	SS-14	23 25 39	24	24	0.0	NO ODOR SHALY CLEAVAGE & HORIZONTAL FRACTURING FINE SAND STRATUM	(LACUSTRINE) DAMP/DRY, VERY DENSE, GRAY VERY FINE SAND, SOME SILT.
31		54 19					
32	SS-15	24 18	24	22	0.0		(LACUSTRINE) DAMP/DRY, DENSE, GRAY VERY FINE SAND, SOME SILT, TRACE COARSE SAND.
33		13 8					
34	SS-16	12 13	24	22	0.0	NO ODOR	(TILL) DAMP/DRY, VERY STIFF, GRAY SILT, LITTLE CLAY, LITTLE COARSE SAND, LITTLE FINE GRAVEL, TRACE MEDIUM GRAVEL.
35		16 7					
36	SS-17	9 9	24	22	0.0	NO ODOR	(TILL) SIMILAR TO SS-16
37		13					BOTTOM OF BORING AT 37 FEET. WELL INSTALLED AT 33 FEET.

NOTES 1. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

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SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-122

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 87024.82

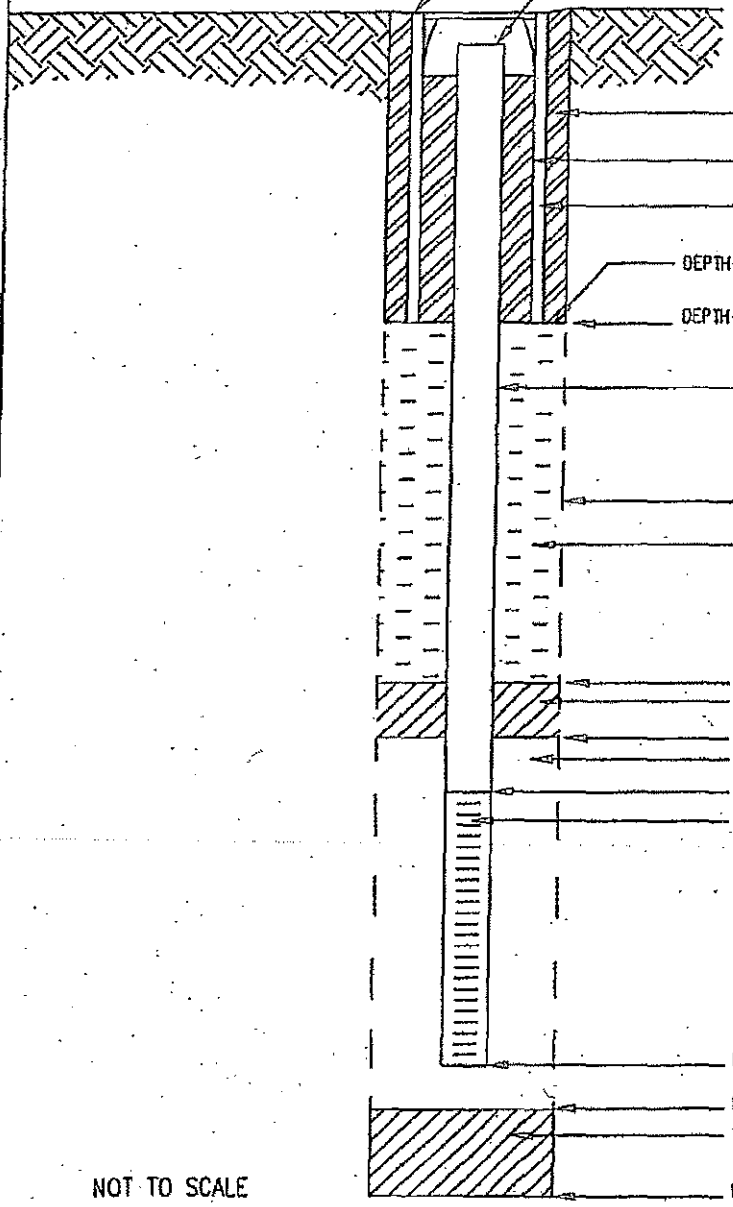
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING DRILLER JIM

LOGGED BY GGL DATE 8/7/97

CHECKED BY DJS DATE 10/6/97

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	632.99
ELEVATION-TOP OF RISER PIPE	632.79
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	22 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	23 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	33 FEET
DEPTH-TOP OF SEAL, IF ANY	34 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	37 FEET

NOT TO SCALE

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/23/98 / 6/24/98 — WELL NO. M&A-123

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY GGL — CHECKED BY ACF — DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
0							NO SAMPLES 1–25 FEET
25		17				TRACE HORIZONTAL & DIAGONAL FRACTURE NO ODOR HIGHER SAND CONTENT 25–26 FEET	
26	SS-1	17 13 15	24	24	28.5		(LACUSTRINE) DRY/DAMP, HARD, GRAY SILT, SOME VERY FINE SAND, LITTLE FINE TO COARSE GRAVEL, TRACE CLAY, TRACE COARSE SAND.
27		9					
28	SS-2	11 12 12	24	20	29.3		(LACUSTRINE) DRY/DAMP, VERY STIFF, GRAY SILT, LITTLE VERY FINE SAND, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
29		16					
30	SS-3	25 36 42	24	22	36.8	HORIZONTAL CLEAVAGE NO ODOR	(LACUSTRINE) DRY/DAMP, VERY DENSE, GRAY VERY FINE SAND, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
31		19					
32	SS-4	29 23	24	20	43.5		(LACUSTRINE) SIMILAR TO SS-3.
33		13 6					
34	SS-5	9 12	24	24	1.6	LITTLE HORIZONTAL CLEAVAGE NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
35		16 7					
36	SS-6	11 14	24	22	3.5	NO ODOR	(TILL) DAMP, HARD, GRAY SILT, LITTLE CLAY, LITTLE FINE SAND, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
37		18					

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/23/98 / 6/24/98 — WELL NO. M&A-123

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY CGL — CHECKED BY ACF — DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
37		8					
38	SS-7	11, 15, 17	24	24	28.2	TRACE DIAGONAL FRACTURE NO ODOR	(TILL) DAMP, VERY STIFF, GRAY SILT, LITTLE CLAY, LITTLE VERY FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
39		16					
40	SS-8	20, 31	24	24	31.4	HORIZONTAL FRACTURE NO ODOR	(LACUSTRINE) DAMP, VERY DENSE, GRAY VERY FINE SAND, LITTLE SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
41		33, 14					
42	SS-9	21, 29	24	24	8.5	HORIZONTAL FRACTURE NO ODOR	(LACUSTRINE) SIMILAR TO SS-8 BOTTOM.
43		31, 12					(LACUSTRINE) MOIST/WET, MEDIUM DENSE, GRAY FINE SAND, TRACE SILT, TRACE COARSE SAND.
44	SS-10	18, 27	24	24	6.5	HORIZONTAL FRACTURE NO ODOR	(LACUSTRINE) DAMP/MOIST, VERY DENSE, GRAY VERY FINE SAND, LITTLE SILT, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
45		32, 22					
46	SS-11	29, 31	24	20	6.6	HORIZONTAL FRACTURE NO ODOR	(LACUSTRINE) DRY/DAMP, VERY DENSE, GRAY VERY FINE SAND, LITTLE SILT, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
47		33, 19					
48	SS-12	55, 100/3"	15	15	2.5		(LACUSTRINE) SIMILAR TO SS-11.
49		–					

BOTTOM OF BORING AT 49 FEET.
WELL INSTALLED AT 47 FEET.

NOTES 1. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
▽ WATER TABLE (APPROX)
——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

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MONITORING WELL INSTALLATION DIAGRAM

M&A-123

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 9800215

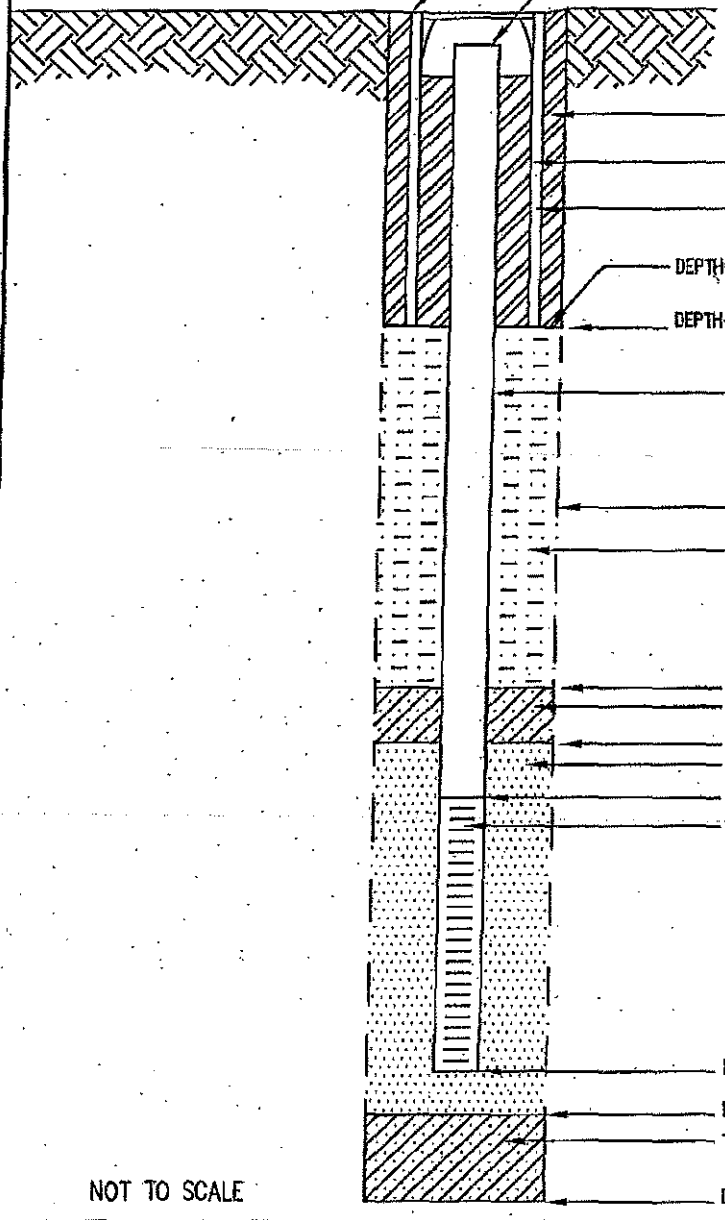
LOCATION 1975 NORTH RUBY STREET, MELROSE PARK IL

CONTRACTOR D&G DRILLING, INC. — DRILLER DENNIS

LOGGED BY GGL — DATE 6/24/98

CHECKED BY ACF — DATE 9/22/98

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	632.91
ELEVATION-TOP OF RISER PIPE	632.60
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NATIVE MATERIAL
DEPTH-TOP OF SEAL	8 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	35 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	36.5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	46.5 FEET
DEPTH-TOP OF SEAL, IF ANY	47 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	49 FEET

NOT TO SCALE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (781) 275-6050 • Fax:(781) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/25/98 / 6/25/98 — WELL NO. M&A-124

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL — SECTION 33,2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN AL

GROUNDWATER EL./DEPTH — LOGGED BY MDH — CHECKED BY ACF — DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1							
2	SS-1	21 5 7 10	24	18	182		(FILL) DRY, MEDIUM DENSE, TAN SILT AND FINE SAND, LITTLE MEDIUM SAND, LITTLE FINE TO MEDIUM GRAVEL.
3							(LACUSTRINE) DRY, FIRM, BROWN/GRAY SILT, SOME CLAY, TRACE FINE GRAVEL.
4	SS-2	3 4 4 3	24	6	290	DIAGONAL FRACTURING NO STAINING NO ODOR	(LACUSTRINE) SIMILAR TO ABOVE.
5							
6	SS-3	3 4 5 3	24	14	247	SUBTLE DIAGONAL FRACTURING	(LACUSTRINE) DAMP, FIRM, LIGHT-BROWN/GRAY MOTTLED SILT AND CLAY, TRACE FINE GRAVEL.
7							
8	SS-4	4 5 6 7	24	6	162	OIL STAINING 7.3-7.4 FEET	(LACUSTRINE) SIMILAR TO SS-3.
9							
10	SS-5	4 7 10 10	24	20	165	NO FRACTURING NO ODOR NO STAINING	(LACUSTRINE) DAMP, STIFF, LIGHT-BROWN/GRAY MOTTLED SILT AND CLAY, LITTLE FINE GRAVEL.
11							
12	SS-6	7 12 13 10	24	24	320	NO ODOR NO STAINING	(LACUSTRINE) DAMP, STIFF, GRAY/LIGHT-BROWN MOTTLED SILT AND CLAY, TRACE COARSE SAND.
13							
14	SS-7	3 5	24	24	145	FEW FINE GRAVEL SEAMS	(LACUSTRINE) DAMP, STIFF, GRAY/LIGHT-BROWN MOTTLED SILT AND CLAY, LITTLE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 98002.15

BORING LOCATION SEE SITE PLAN DATE START/FINISH 6/25/98 / 6/25/98

SITE FILE NO. 0311860011 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN AL

GROUNDWATER EL./DEPTH LOGGED BY MDH CHECKED BY ACF DATE 9/22/98

BORING NO.

WELL NO. M&A-124

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		7 9 4					
16	SS-8	7 8 10	24	24	109	NO FRACTURING	(LACUSTRINE) SIMILAR TO SS-7.
17		4					
18	SS-9	6 8 8	24	24	78.5	NO ODOR NO STAINING	(LACUSTRINE) DAMP, FIRM, GRAY AND BROWN MOTTLED SILT AND CLAY, LITTLE FINE GRAVEL.
19		5					
20	SS-10	10 35 43	24	24	89.2		(LACUSTRINE) SIMILAR TO SS-9. (LACUSTRINE) DRY, DENSE, GRAY FINE SAND, TRACE FINE GRAVEL.
21							BOTTOM OF BORING AT 21 FEET. WELL M&A-124 INSTALLED AT 15.5 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
WATER TABLE (APPROX)
CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-124

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 98002.15

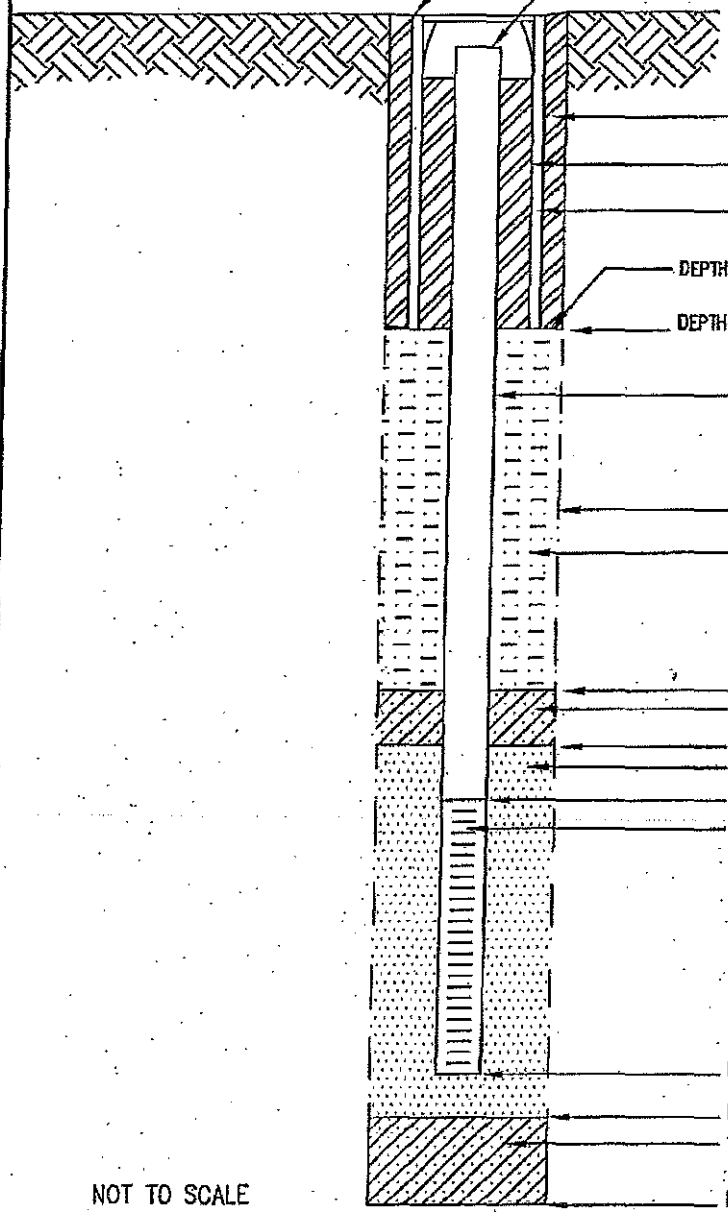
LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK IL

CONTRACTOR D&G DRILLING, INC. — DRILLER AL

LOGGED BY MDH — DATE 6/25/98

CHECKED BY ACE — DATE 9/22/98

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.49
ELEVATION-TOP OF RISER PIPE	634.24
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	8 INCHES
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	BENTONITE CHIPS
DEPTH-TOP OF SEAL	8 INCHES
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5.5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15.5 FEET
DEPTH-TOP OF SEAL, IF ANY	16.5 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	21 FEET

NOT TO SCALE

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 98002.15 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 6/22/98 / 6/23/98 WELL NO. M&A-126

SITE FILE NO. 0311860011 COUNTY COOK FEDERAL ID. NO. IDL005071808 PG. 1 OF 3

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY GGL CHECKED BY ACF DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							CONCRETE
1							
2	SS-1	20 13 8	24	10	29.2		(FILL) DRY, MEDIUM DENSE, BLACK CINDER/ASH, LITTLE FINE TO MEDIUM SAND, TRACE SILT.
3		8					
4	SS-2	4 5 5	24	18	35.2	HORIZONTAL AND DIAGONAL FRACTURING TAN MOTTLING	(FILL) DAMP, STIFF, GRAY SILT, LITTLE CLAY, TRACE FINE GRAVEL.
5		6					
6	SS-3	3 2 2	24	16	38.9	TAN MOTTLING PETROLEUM ODOR 6.5'-7.5' GRAY/BLACK	(LACUSTRINE) MOIST/WET, FIRM, GRAY SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
7		3					
8	SS-4	2 6 10	24	20	38.9	EARTHY ODOR GRADES DOWNWARD TO GRAY	(LACUSTRINE) DAMP, VERY STIFF, BROWN SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
9		10					
10	SS-5	5 7 8	24	22	31.5	EARTHY ODOR	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME CLAY, LITTLE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
11		9					
12	SS-6	3 4 6	24	20	25.8	EARTHY ODOR	(LACUSTRINE) DAMP, STIFF, GRAY SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
13		7					
14	SS-7	WOR 5	24	24	33.7	WOR=WEIGHT OF ROD NO ODOR	(LACUSTRINE) MOIST, STIFF, GRAY SILT AND CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED;%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 98002.15 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 6/22/98 / 6/23/98 WELL NO. M&A-126

SITE FILE NO. 0311860011 COUNTY COOK FEDERAL ID. NO. IDL005071808 PG. 2 OF 3

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY GGL CHECKED BY ACF DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		6 6 9					
16	SS-8	9 10 12	24	22	22.4	NO ODOR	(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT, SOME CLAY, LITTLE FINE GRAVEL, TRACE COARSE SAND.
17							
18	SS-9	3 4 6	24	22	36.4	NO ODOR BROWN MOTTLING	(LACUSTRINE) DAMP, STIFF, GRAY SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
19		9 2					(LACUSTRINE) DAMP, STIFF, GRAY/BROWN SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
20	SS-10	5 12	24	24	341.0	NO ODOR	(LACUSTRINE) DAMP, HARD, DARK GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
21		24 13				HORIZONTAL CLEAVAGE	(LACUSTRINE) DRY/DAMP, HARD, GRAY VERY FINE SAND, LITTLE SILT.
22	SS-11	23 30	24	24	266.0	NO ODOR	(LACUSTRINE) DRY/DAMP, HARD, DARK GRAY VERY FINE SAND, SOME SILT, TRACE COARSE SAND.
23		34 24					
24	SS-12	34 59	24	24	120.0	NO ODOR	(LACUSTRINE) SIMILAR TO SS-11.
25		26 18					
26	SS-13	21 18	24	22	340.0	HORIZONTAL AND VERTICAL FRACTURE NO ODOR	(LACUSTRINE) DAMP, HARD, DARK GRAY SILT, SOME VERY FINE SAND, TRACE CLAY, TRACE COARSE SAND.
27		15 17					
28	SS-14	15	24	18	158.0	NO ODOR	(LACUSTRINE) WET, DENSE, GRAY FINE SAND, TRACE SILT, TRACE COARSE SAND.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/22/98 / 6/23/98 — WELL NO. M&A-126

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. ILD005071808 — PG. 3 OF 3

QUADRANGLE RIVER FOREST, IL — SECTION 33,2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY GGL — CHECKED BY ACF — DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		19 17 10					(LACUSTRINE) DAMP, HARD, GRAY SILT, SOME FINE SAND, LITTLE CLAY, LITTLE FINE GRAVEL.
30	SS-15	14 17	24	24	95.6	NO ODOR	(LACUSTRINE) DAMP, VERY STIFF, DARK GRAY SILT, SOME VERY FINE SAND, TRACE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
31		22 -				1/4" CLAY LAYER AT 31.6'	
32	SS-16	6 9	24	20	83.2	NO ODOR	(OUTWASH) WET, MEDIUM DENSE, GRAY WHITE/BLACK MEDIUM SAND, TRACE SILT, TRACE FINE TO MEDIUM GRAVEL.
33		14 8					
34	SS-17	15 17	24	20	44.9	NO ODOR	(OUTWASH) SIMILAR TO SS-16.
35		19 11					(LACUSTRINE) DAMP, HARD, GRAY SILT, SOME CLAY, LITTLE VERY FINE SAND. (OUTWASH) SIMILAR TO SS-16.
36	SS-18	13 24	24	22	54.4	NO ODOR	(TILL) MOIST, HARD, GRAY SILT, SOME CLAY, LITTLE FINE SAND, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
37		25					BOTTOM OF BORING AT 37 FEET. WELL INSTALLED AT 35 FEET.

NOTES
1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER
PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=RECOVERY LENGTH OF SAMPLE
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PID, EQUIPPED WITH 10.2 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%
DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)
▽ WATER TABLE (APPROX)
——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)
═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

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MONITORING WELL INSTALLATION DIAGRAM

M&A-126

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY PROJ. NO. 98002.15

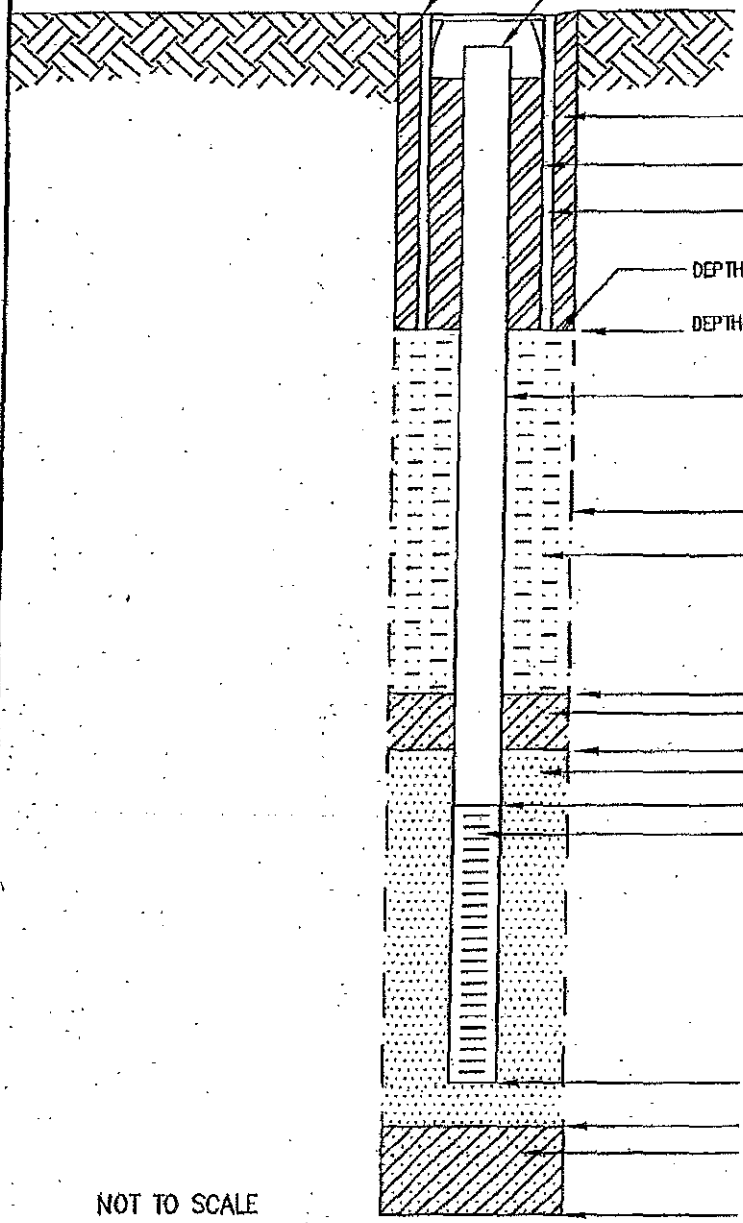
LOCATION 1975 NORTH RUBY STREET, MELROSE PARK IL

CONTRACTOR D&G DRILLING, INC. DRILLER DENNIS

LOGGED BY GGL DATE 6/22/98

CHECKED BY ACF DATE 9/22/98

LOCATION SEE SITE PLAN



ELEVATION– TOP OF CASING	634.45
ELEVATION–TOP OF RISER PIPE	634.08
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH–BOTTOM OF SURFACE CASING	10 INCHES
DEPTH–BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NATIVE MATERIAL
DEPTH–TOP OF SEAL	3 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH–TOP OF FILTER PACK	29.4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH–TOP OF SCREEN	30 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH–BOTTOM OF WELL	35 FEET
DEPTH–TOP OF SEAL, IF ANY	N/A
TYPE OF SEAL	NONE
DEPTH–BOTTOM OF BOREHOLE	37 FEET

NOT TO SCALE

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

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PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/25/98 / 6/26/98

SITE FILE NO. 0311660011 — COUNTY COOK — FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY GGL — CHECKED BY ACF — DATE 9/22/98

BORING NO. — WELL NO. M&A-127

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1		3					CONCRETE
2	SS-1	4 5 7	24	18	46.5	NO ODOR	(FILL) DAMP, LOOSE, BROWN MEDIUM SAND, LITTLE SILT, LITTLE FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
3		2					(FILL) DAMP, MEDIUM DENSE, BLACK FINE TO MEDIUM SAND, SOME SILT, TRACE COARSE SAND, TRACE GRAVEL.
4	SS-2	3 3 4	24	16	115.0	SLIGHT PETROLEUM ODOR DIAGONAL FRACTURING	(FILL) MOIST/DAMP, FIRM, GRAY SILT AND CLAY, LITTLE FINE TO MEDIUM GRAVEL, TRACE COARSE SAND.
5		1					
6	SS-3	1 1 2	24	20	259.0	SLIGHT PETROLEUM ODOR	(FILL) SIMILAR TO SS-2. (LACUSTRINE) WET, SOFT, GRAY CLAY, SOME SILT, TRACE FINE GRAVEL.
7		1					
8	SS-4	1 3 5	24	16	278.0	NO ODOR	(LACUSTRINE) MOIST, SOFT, TAN CLAY, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
9		3					
10	SS-5	5 7 10	24	20	217.0	NO ODOR	(LACUSTRINE) MOIST, STIFF, OLIVE SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
11		2					
12	SS-6	2 4 6	24	18	90.5	NO ODOR	(LACUSTRINE) DAMP/MOIST, STIFF, GRAY CLAY, LITTLE SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
13		1					
14	SS-7	3	24	24	85.7	CLAY ODOR	(LACUSTRINE) MOIST, STIFF, GRAY/OLIVE CLAY, LITTLE SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (781) 275-6050 • Fax:(781) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 98002.15 — BORING NO.

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 6/25/98 / 6/26/98 — WELL NO. M&A-127

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 2 OF 3

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) — CONTRACTOR D&G DRILLING, INC. — FOREMAN DENNIS

GROUNDWATER EL./DEPTH — LOGGED BY GGL — CHECKED BY ACF — DATE 9/22/98

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15		5 8 3					
16	SS-8	3 5	24	22	137.0	CLAY ODOR	(LACUSTRINE) MOIST, STIFF, GRAY CLAY, LITTLE SILT, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
17		10 3					
18	SS-9	4 7	24	24	49.0		(LACUSTRINE) DAMP/MOIST, STIFF, GRAY CLAY, LITTLE SILT, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
19		7 2					
20	SS-10	3 10	24	22	52.8	NO ODOR	(LACUSTRINE) DAMP/DRY, STIFF, GRAY SILT, SOME CLAY, LITTLE FINE TO MEDIUM GRAVEL, TRACE FINE SAND, TRACE COARSE SAND.
21		25 10				HORIZONTAL CLEAVAGE	(LACUSTRINE) DAMP/DRY, DENSE, GRAY FINE SAND, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
22	SS-11	11 18	24	18	32.2		(LACUSTRINE) DAMP, HARD, GRAY SILT, LITTLE VERY FINE SAND, LITTLE CLAY, LITTLE FINE GRAVEL, TRACE COARSE SAND.
23		21 10					
24	SS-12	12 15	24	22	106.0		(LACUSTRINE) DAMP, VERY STIFF, VERY FINE GRAY SAND AND SILT, TRACE COARSE SAND.
25		12 5					(LACUSTRINE) MOIST/WET, MEDIUM DENSE, GRAY FINE SAND, TRACE SILT.
26	SS-13	10 11	24	22	107.0	3" WET GRAY/BLACK FINE MEDIUM SAND 25.75-26'	(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME VERY FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.
27		12 10				NO ODOR SLIGHT DIAGONAL FRACTURING	
28	SS-14	13	24	22	29.8		(LACUSTRINE) DAMP, VERY STIFF, GRAY SILT, SOME VERY FINE SAND, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (781) 275-6050 • Fax:(781) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 98002.15

BORING LOCATION SEE SITE PLAN DATE START/FINISH 6/25/98 / 6/26/98

SITE FILE NO. 0311860011 COUNTY COOK FEDERAL ID. NO. ILD005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN DENNIS

GROUNDWATER EL./DEPTH LOGGED BY CGL CHECKED BY ACF DATE 9/22/98

BORING NO.

WELL NO. M&A-12Z

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
29		13 22 10					
30	SS-15	12 21 28	24	22	8.6	NO ODOR DIAGONAL FRACTURING	(LACUSTRINE) SIMILAR TO SS-14.
31							
32	SS-16	15 29 38 37	24	22	86.4	HORIZONTAL CLEAVAGE/ FRACTURING NO ODOR	(LACUSTRINE) DRY, VERY DENSE, GRAY VERY FINE SAND, SOME SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
33						DRILLER ERROR NO SAMPLE 33 TO 34'	
34		8					(LACUSTRINE) DRY/DAMP, STIFF, GRAY SILT, SOME FINE SAND, TRACE COARSE SAND.
35	SS-17	12 15 21	24	24	37.2	NO ODOR	(TILL) DRY/DAMP, VERY STIFF, GRAY SILT, LITTLE FINE SAND, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE TO MEDIUM GRAVEL.
36							BOTTOM OF BORING AT 36 FEET. WELL INSTALLED AT 30 FEET.

NOTES

1. CONCRETE DRILLED WITH SOLID STEM AUGER FINGER BIT.
2. AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENT.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTO VAC 2020 PID, EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

WATER TABLE (APPROX)

CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (781) 275-6050 • Fax:(781) 275-5651

MONITORING WELL INSTALLATION DIAGRAM

M&A-127

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 98002.15

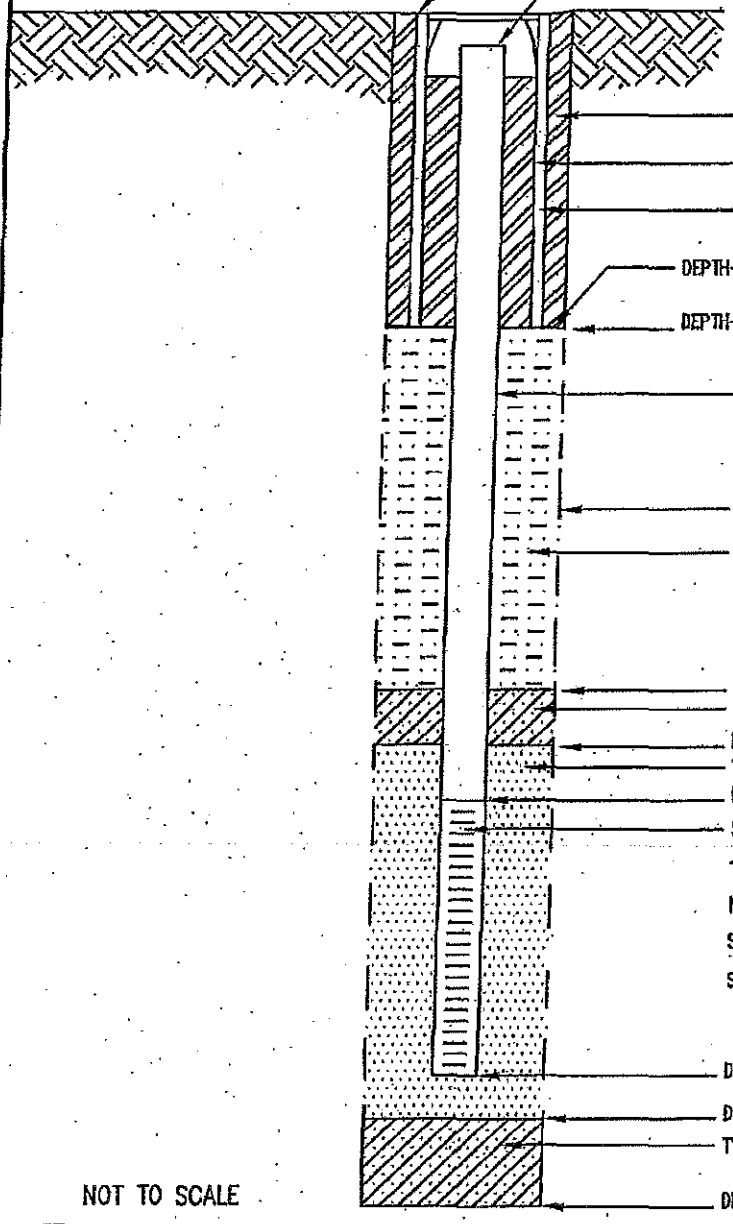
LOCATION 1975 NORTH RUBY STREET, MELROSE PARK IL

CONTRACTOR D&G DRILLING, INC. — DRILLER DENNIS

LOGGED BY GGL — DATE 6/26/98

CHECKED BY AGF — DATE 9/22/98

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	634.52
ELEVATION-TOP OF RISER PIPE	634.23
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	6 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH ROAD BOX
DEPTH-BOTTOM OF SURFACE CASING	10 INCHES
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1 FOOT
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	N/A
DEPTH-TOP OF SEAL	1 FOOT
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-TOP OF FILTER PACK	18.4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	20 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	30 FEET
DEPTH-TOP OF SEAL, IF ANY	31 FEET
TYPE OF SEAL	BENTONITE CHIPS
DEPTH-BOTTOM OF BOREHOLE	36 FEET

NOT TO SCALE

Well Construction Diagram

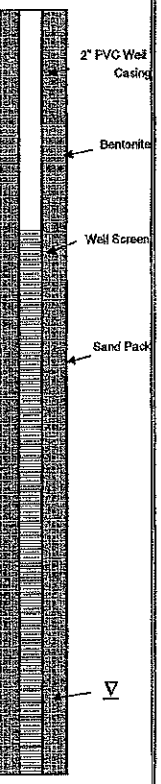
Mabbett & Associates, Inc.
Environmental Consultants & Engineers
Five Alfred Circle, Bedford, Massachusetts 01730
Phone:(781) 275-6050 Fax: (781)275-5651

LOCATION: Bodycote Thermal Processing PROJ. NO. 1008002.251
BORING LOCATION: Melrose Park, Illinois
DATE START/FINISH: 3/10/2009
GROUND ELEVATION (NGVD): UKN
CONTRACTOR: Illinois Drilling and Test Co, Inc. FOREMAN: Anthony
GROUNDWATER DEPTH: 18 feet ▽
LOGGED BY: CLM CHECKED BY: CLM
METHOD: HSA DATE: 3/11/2009
CASING: PVC
DIAMETER: 2"

BORING NO.	SB-134
WELL NO.	M&A-134
PG. 1 OF 1	

DEPTH (FT)	SAMPLE TYPE & NO.	SAMPLE PEN (IN)	SAMPLE BLOWS (per 6-in)	SAMPLE REC (in)	HEADSPACE (ppmv)	REMARKS	SOIL DESCRIPTION
0	SS-1	24	44 42	17	<0.1	2"-asphalt pavement	
1			45 49			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY, Trace Fine Gravel
2	SS-2	24	38 37	19	0.1		
3			49 51			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY
4	SS-3	24	55 82	24	0.7		
5			71 77			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY
6	SS-4	24	48 51	24	<0.1		
7			61 60			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY, Trace Fine Gravel
8	SS-5	24	44 46	24	0.1		
9			49 13			No Petroleum Odor	DRY, VERY DENSE LIGHT BROWN CLAY
10	SS-6	24	19 22	24	0.1		
11			41 38			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY
12	SS-7	24	20 17	24	<0.1		
13			19 27			No Petroleum Odor	DRY, VERY DENSE BROWN/GREY CLAY
14	SS-8	24	18 45	24	<0.1		
15			44 41			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY
16	SS-9	24	47 39	24	<0.1		
17			29 27			No Petroleum Odor	WET, VERY DENSE BROWN CLAY
18	SS-10	24	41 48	24	<0.1		
19			53 61			No Petroleum Odor	WET, VERY DENSE BROWN CLAY
20							

SOIL LOG / WELL LOG



PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC=LENGTH OF SAMPLE RECOVERED
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD SCREENING WITH MiniRae 2000, PID EQUIPPED WITH A 11.7 eV LAMP.
RQD=LENGTH OF SOUND CORES > IN./LENGTH CORED %
DEPTH=DEPTH BELOW GROUND SURFACE
(GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

CHANGE IN MATERIAL TYPE
CHANGE IN DEPOSIT TYPE

SOIL TYPES	WELL CONSTRUCTION DETAILS
	asphalt
	concrete
gravel	native fill
sand	bentonite
silt	casing
clay	screen
sand & gravel	grout
bedrock	bedrock

NOTES:Well finished with 15' screen; 5' riser flush mount to ground surface. M&A personnel collected a soil sample from SS-3 and submitted it for laboratory analysis for PAH-SIM on 03/10/09 to TestAmerica in Nashville, TN.

Well Construction Diagram

Mabbett & Associates, Inc.
Environmental Consultants & Engineers
Five Allred Circle, Bedford, Massachusetts 01730
Phone:(781) 275-6050 Fax:(781)275-5651

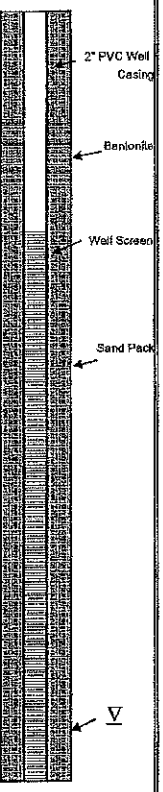
LOCATION: Bodycote Thermal Processing PROJ. NO. 1998002.263
BORING LOCATION: Melrose Park, Illinois
DATE START/FINISH: 3/10/2009
GROUND ELEVATION (NGVD): UKN
CONTRACTOR: Illinois Drilling and Test Co. Inc. FOREMAN: Anthony
GROUNDWATER DEPTH: 18.5 feet ▽
LOGGED BY: CLM CHECKED BY: CLM
METHOD: HSA DATE: 3/11/2009
CASING: PVC
DIAMETER: 2"

BORING NO.	SB-135
WELL NO.	M&A-135
PG. 1 OF 1	

SAMPLE DEPTH (FT)	TYPE & NO.	PEN (IN)	BLOWS (per 6-in)	REC (in)	HEADSPACE (ppmv)	REMARKS	SOIL DESCRIPTION
0	SS-1	24	3	24	<0.1	2"-asphalt pavement	
			9				
1			7			No Petroleum Odor	DRY, FINE BROWN SAND & GRAVEL
			4				
2	SS-2	24	16	24	0.1		
			14				
3			31			No Petroleum Odor	DRY, DENSE BROWN CLAY
			36				
4	SS-3	24	49	22	<0.1		
			77				
5			71			No Petroleum Odor	DRY, VERY DENSE BROWN CLAY
			79				
6	SS-4	24	65	24	0.3		
			60				
7			61			No Petroleum Odor	DRY, VERY DENSE BROWN/GREY CLAY
			65				
8	SS-5	24	27	21	<0.1		
			31				
9			48			No Petroleum Odor	DRY, VERY DENSE BROWN/GREY CLAY
			49				
10	SS-6	24	22	23	<0.1		
			21				
11			19			No Petroleum Odor	DRY, VERY DENSE BROWN/GREY CLAY
			27				
12	SS-7	24	55	24	0.1		
			16				
13			42			No Petroleum Odor	DRY, VERY DENSE BROWN/GREY CLAY
			31				
14	SS-8	24	33	24	0.1		
			37				
15			33			No Petroleum Odor	DRY, VERY DENSE GREY CLAY
			35				
16	SS-9	24	41	24	0.2		
			49				
17			53			No Petroleum Odor	DRY, VERY DENSE GREY CLAY
			40				
18	SS-10	24	36	24	0.1		
			59				
19			61			No Petroleum Odor	WET, VERY DENSE GREY CLAY
			44				
20							

SOIL LOG

WELL LOG



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REC=LENGTH OF SAMPLE RECOVERED
SS=SPLIT SPOON SAMPLE
S=SAMPLE TAKEN OFF AUGER
HEADSPACE=RESULT OF FIELD SCREENING WITH MiniRae 2000, PID EQUIPPED WITH A 11.7 eV LAMP.
RQD=LENGTH OF SOUND CORES > 4IN./LENGTH CORED %
DEPTH=DEPTH BELOW GROUND SURFACE
(GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

CHANGE IN MATERIAL TYPE
CHANGE IN DEPOSIT TYPE

SOIL TYPES	WELL CONSTRUCTION DETAILS
	asphalt
	concrete
gravel	native fill
sand	bentonite
silt	casing
clay	screen
sand & gravel	grout
bedrock	bedrock

NOTES:Well finished with 15' screen; 5' riser flush mount to ground surface. M&A personnel collected a soil sample from SS-4 and submitted it for laboratory analysis for PAH-SIM on 03/10/09 to TestAmerica in Nashville, TN.

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.70 BORING NO.

BORING LOCATION SEE SITE PLAN DATE START/FINISH 9/25/96 / 9/25/96 WELL NO. M&A-301

SITE FILE NO. 0311860011 COUNTY COOK FEDERAL ID. NO. IDL005071808 PG. 1 OF 2

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR D&G DRILLING, INC. FOREMAN BARRY/DENNIS

GROUNDWATER EL./DEPTH LOGGED BY CGL CHECKED BY CJH DATE 12/9/96

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
							TOP SOIL
1	SS-1	2 3 5 6	24	3	16.6	EARTHY ODOR	(FILL) DRY, MEDIUM DENSE, BROWN/TAN FINE SAND, SOME SILT, LITTLE COARSE SAND, LITTLE FINE GRAVEL, TRACE CLAY.
2							
3	SS-2	4 4 5 7	24	18	17.5	EARTHY/NO ODOR	(FILL) DRY, MEDIUM DENSE, GRAY SILT, SOME FINE SAND, LITTLE MEDIUM SAND, LITTLE FINE GRAVEL, TRACE COARSE SAND, TRACE CLAY.
4							
5	SS-3	4 7 9 9	24	12	19.5	EARTHY/NO ODOR	(LACUSTRINE) DRY, MEDIUM DENSE, GRAY/TAN FINE SAND AND SILT, LITTLE FINE GRAVEL, LITTLE COARSE SAND, TRACE CLAY.
6		6					
7	SS-4	9 9 11	24	18	17.0	SLIGHT PETROLEUM ODOR	(LACUSTRINE) MOIST, VERY STIFF, DARK BROWN SILT, LITTLE FINE GRAVEL, TRACE COARSE SAND, TRACE CLAY.
8							
9	SS-5	2 4 5 6	24	18	25.5	NO ODOR. DIAGONAL FRACTURES HAVE WHAT APPEARS TO BE LIGHT OIL.	(LACUSTRINE) WET/MOIST, STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
10							(LACUSTRINE) MOIST, FIRM, GRAY/BROWN SILT, LITTLE FINE SAND, TRACE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
11	SS-6	2 3 4 5	24	20	19.7	NO ODOR	(LACUSTRINE) MOIST, STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
12							
13	SS-7	2 5 5 6	24	20	15.7	NO ODOR, HIGHEST % OF FINE SAND AT 13 FEET.	(LACUSTRINE) MOIST, STIFF, GRAY SILT, SOME CLAY, LITTLE FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTOVAC MICROTIP, PID EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/15/93 / 7/15/93

SITE FILE NO. 0311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 3 3/4 HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) _____ CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH _____ LOGGED BY CGL CHECKED BY CJH DATE 10/25/93

BORING NO. _____

WELL NO. M&A-208

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
1							LOAMY SAND
2	SS-1	5, 7, 7	24	20	0.5		(LACUSTRINE) DAMP, STIFF, BROWN FINE SAND AND SILT, TRACE FINE GRAVEL, TRACE CLAY, TRACE ROOTS.
3		8, 4					
4	SS-2	5, 7, 9	24	18	0.5		(LACUSTRINE) DAMP, STIFF, BROWN/GRAY SILT, TRACE FINE GRAVEL, TRACE COARSE SAND, TRACE CLAY.
5		4					
6	SS-3	7, 8, 10	24	10	0.0	▽ WATER AT 6.5 FEET	(LACUSTRINE) DAMP, VERY STIFF, BROWN SILT, LITTLE COARSE SAND, TRACE FINE GRAVEL, TRACE CLAY.
7		5					
8	SS-4	9, 12, 19	24	20	0.0		(LACUSTRINE) DAMP, VERY STIFF, BROWN FINE SAND, SOME SILT, LITTLE COARSE SAND, TRACE FINE GRAVEL.
9		5					
10	SS-5	4, 9, 9	24	22	0.0		(LACUSTRINE) MOIST, VERY STIFF, GRAY SILT, SOME FINE SAND, TRACE COARSE SAND, TRACE FINE GRAVEL, TRACE CLAY.
11		3					
12	SS-6	6, 7, 9	24	3	0.5		(LACUSTRINE) DAMP, STIFF, GRAY CLAY AND SILT, TRACE COARSE SAND, TRACE FINE GRAVEL.
13		3					
14	SS-7	4	24	16	0.0		

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY LOCATION MELROSE PARK, IL PROJ. NO. 87024.17

BORING LOCATION SEE SITE PLAN DATE START/FINISH 7/15/93 / 7/15/93

SITE FILE NO. D311860001 COUNTY COOK FEDERAL ID. NO. IDL005071808

QUADRANGLE RIVER FOREST, IL SECTION 33.2b T. 40N R. 12E DRILLING EQUIPMENT 3 3/4 HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) CONTRACTOR FOX DRILLING FOREMAN DON EGER

GROUNDWATER EL./DEPTH LOGGED BY CGL CHECKED BY CJH DATE 10/25/93

BORING NO. WELL NO. M&A-208

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
14		6					
		7					
15							BOTTOM OF BORING AT 15 FEET. WELL INSTALLED AT 15 FEET.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH HNu, PID

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

▽ WATER TABLE (APPROX)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

MONITORING WELL INSTALLATION DIAGRAM

M&A-208

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.16

LOCATION 1975 NORTH RUBY ROAD, MELROSE PARK, IL.

PG. 1 OF 1

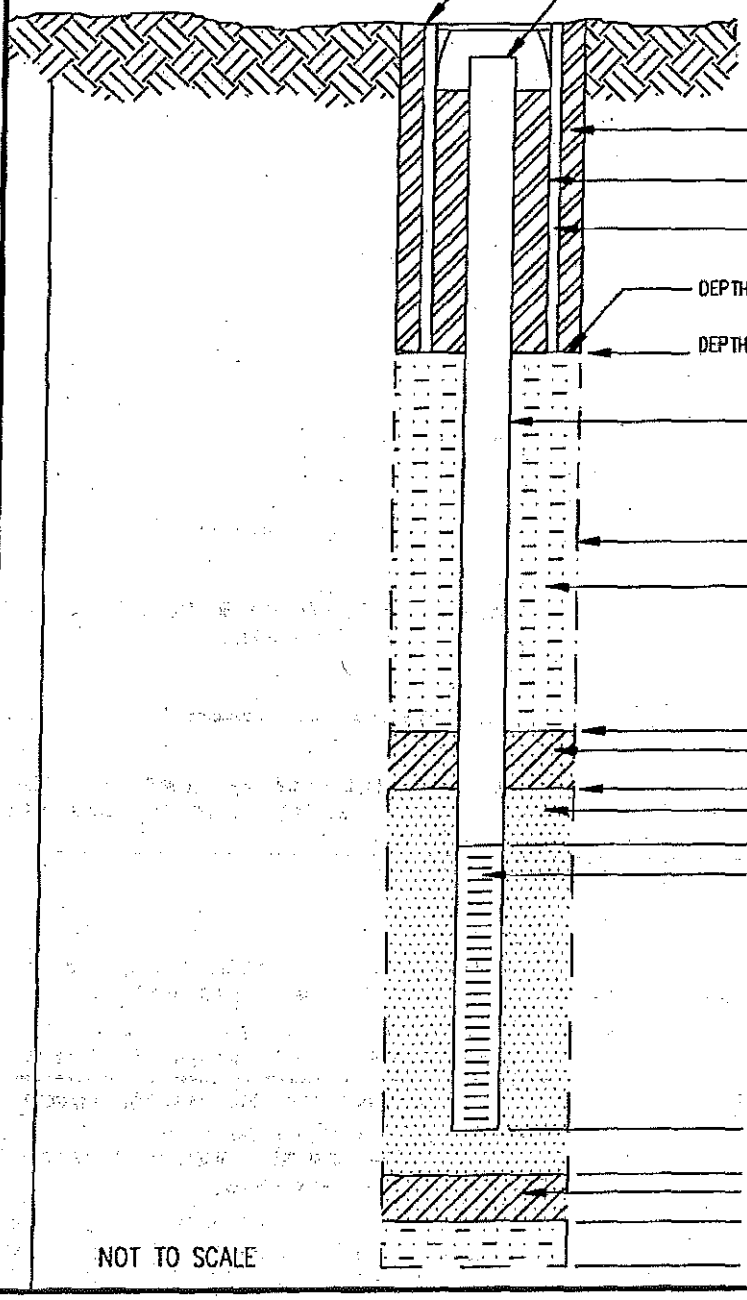
CONTRACTOR FOX DRILLING — DRILLER DONNIE EGER

BORING NO. M&A-208

LOGGED BY GGL — DATE 7/15/93

LOCATION SEE SITE PLAN

CHECKED BY CJH — DATE 10/25/93



ELEVATION- TOP OF CASING	-
ELEVATION-TOP OF RISER PIPE	-
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	4 INCHES
TYPE OF SURFACE CASING	STEEL GUARD PIPE
DEPTH-BOTTOM OF SURFACE CASING	2.5 FEET
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	2.5 FEET
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	2.5 FEET
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	4 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	5 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	15 FEET
DEPTH-TOP OF SEAL, IF ANY	NONE
TYPE OF SEAL	NONE
DEPTH-BOTTOM OF SEAL, IF ANY	NONE
DEPTH-BOTTOM OF BOREHOLE	15 FEET

NOT TO SCALE

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PROJECT/CLIENT UNDBERG HEAT TREATING COMPANY — LOCATION MELROSE PARK, IL — PROJ. NO. 87024.70 — BORING NO. ____

BORING LOCATION SEE SITE PLAN — DATE START/FINISH 9/25/96 / 9/25/96 — WELL NO. M&A-301

SITE FILE NO. 0311860011 — COUNTY COOK — FEDERAL ID. NO. IDL005071808 — PG. 2 OF 2

QUADRANGLE RIVER FOREST, IL — SECTION 33.2b — T. 40N — R. 12E — DRILLING EQUIPMENT 4 1/4" ID HOLLOW STEM AUGER

GROUND ELEVATION (NGVD) ____ — CONTRACTOR D&G DRILLING, INC. — FOREMAN BARRY/DENNIS

GROUNDWATER EL./DEPTH ____ — LOGGED BY GGL — CHECKED BY CJH — DATE 12/9/96

DEPTH FT.	SAMPLE TYPE and NO.	SAMPLE BLOWS PER 6 IN.	SAMPLE PEN IN.	SAMPLE REC IN.	SAMPLE HEADSPACE PPM	REMARKS	SOIL AND ROCK DESCRIPTIONS
15	SS-8	1 2 4 5	24	22	15.7	NO ODOR SOME DIAGONAL FRACTURES.	(LACUSTRINE) MOIST, STIFF, GRAY SILT, SOME CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
16		3					
17	SS-9	4 5 7	24	22	17.2	NO ODOR	(LACUSTRINE) MOIST, STIFF, GRAY SILT, LITTLE CLAY, TRACE COARSE SAND, TRACE FINE GRAVEL.
18							BOTTOM OF BORING AT 18 FEET. WELL INSTALLED AT 13 FEET.

NOTE: AUTOMATIC HYDRAULIC HAMMER UTILIZED FOR SPLIT SPOON ADVANCEMENTS.

BLOWS PER 6" =140 LB. HAMMER FALLING 30" TO DRIVE A 2.0 IN. O.D. SPLIT SPOON SAMPLER

PEN=PENETRATION LENGTH OF SAMPLER OR CORE BARREL

REC=RECOVERY LENGTH OF SAMPLE

SS=SPLIT SPOON SAMPLE

S=SAMPLE TAKEN OFF AUGER

HEADSPACE=RESULT OF FIELD HEADSPACE SCREENING WITH PHOTOVAC MICROTIP, PID EQUIPPED WITH 10.6 eV LAMP.

RQD=LENGTH OF SOUND CORES >4 IN./LENGTH CORED,%

DEPTH=DEPTH BELOW GROUND SURFACE (GRAPHICAL COLUMN SHOWS LOCATION OF SAMPLE)

——— CHANGE IN MATERIAL TYPE (DASHED WHERE INFERRED)

═══ CHANGE IN DEPOSIT TYPE (DASHED WHERE INFERRED)

Mabbett & Associates, Inc.

Environmental Consultants & Engineers

Five Alfred Circle, Bedford, Massachusetts 01730 • (617) 275-6050 • Fax:(617) 275-5651

MONITORING WELL INSTALLATION DIAGRAM

M&A-301

PROJECT/CLIENT LINDBERG HEAT TREATING COMPANY — PROJ. NO. 87024.70

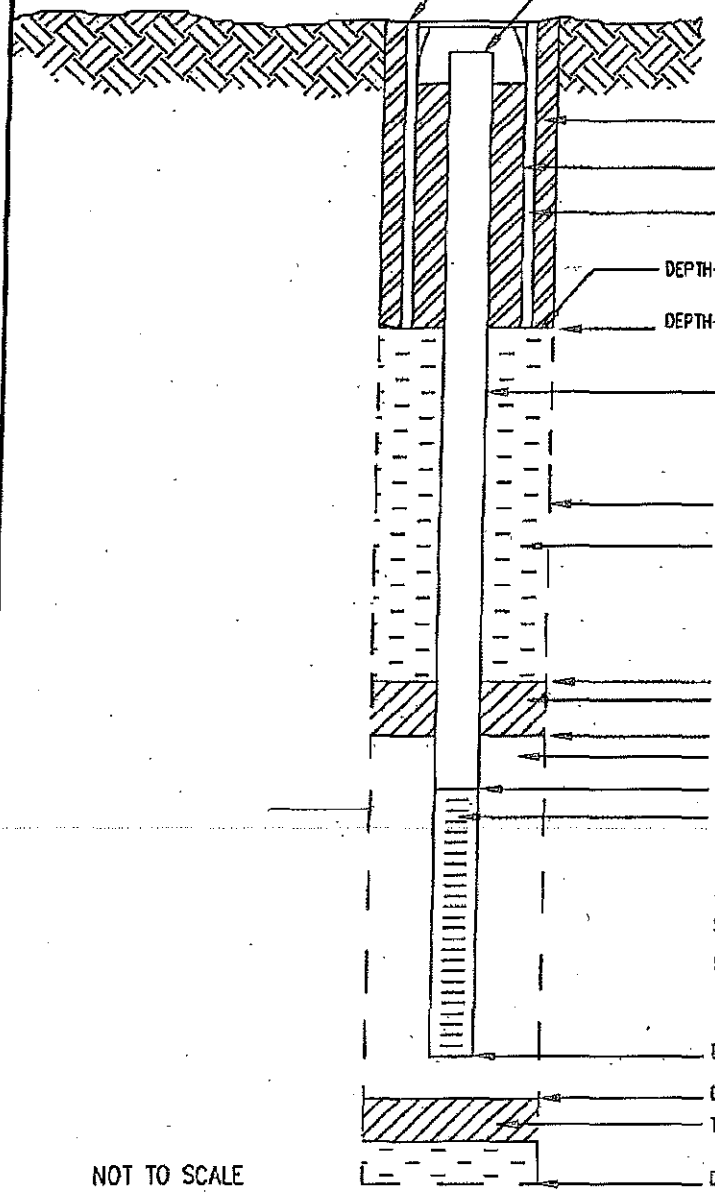
LOCATION MELROSE PARK, IL

CONTRACTOR D&G DRILLING, INC. — DRILLER BARRY/DENNIS

LOGGED BY GGL — DATE 9/25/96

CHECKED BY CJH — DATE 12/9/96

LOCATION SEE SITE PLAN



ELEVATION- TOP OF CASING	633.46
ELEVATION-TOP OF RISER PIPE	633.12
TYPE OF SURFACE SEAL	CONCRETE
I.D. OF SURFACE CASING	8 INCHES
TYPE OF SURFACE CASING	W.T. FLUSH MOUNT
DEPTH-BOTTOM OF SURFACE CASING	1 FOOT
DEPTH-BOTTOM OF SURFACE SEAL/ TOP OF BACKFILL	1.5 FEET
RISER PIPE:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
DIAM. OF BOREHOLE	8 INCHES
TYPE OF BACKFILL	NONE
DEPTH-TOP OF SEAL	1.5 FEET
TYPE OF SEAL	BENTONITE
DEPTH-TOP OF FILTER PACK	2.5 FEET
TYPE OF FILTER PACK	SILICA SAND
DEPTH-TOP OF SCREEN	3 FEET
SCREENED SECTION:	
TYPE	SCHEDULE 40 PVC
NOMINAL DIAMETER	2 INCHES
SLOT SIZE	0.01 INCHES
SLOT TYPE	MACHINE SLOTTED
DEPTH-BOTTOM OF WELL	13 FEET
DEPTH-TOP OF SEAL, IF ANY	13.5 FEET
TYPE OF SEAL	BENTONITE
DEPTH-BOTTOM OF BOREHOLE	18 FEET

NOT TO SCALE

APPENDIX B

M&A-111 Field Logs

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Bedford, MA 01730-2346
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info@mabbett.com
www.mabbett.com

M&A-111

Date	Initials	Sock Changed (Yes / No)	Comments
12/11/12	JD	Yes	Sock Clean 4" wet
12 26/12	JD	Yes	Sock Clean 4" wet
1/3/13	JD	Yes	Sock clean 4" wet
1/9/13	Mabbett	No	Sock clean 4" wet
1/14/13	JD	NO	Sock Clean 4" wet
1/22/13	JD	Yes	Sock Clean 4" wet
1/28/13	JD	Yes	Sock Clean 5" wet
2-4/13	JD	Yes	Sock clean 4" wet
2-11/13	JD	Yes	Sock Clean 6" wet
2-20-13	CLM	Yes	Sock clean 3" wet
END SOCK DEPLOYMENT PER Mabbett			

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M&A-111

Date	Initials	Sock Changed (Yes / No)	Comments
08-01-12	CLM	Yes	Clean - water soaked
8/16/12	BP	Yes	CLEAN - WATER SOAKED
8/20/12	JD	Yes	Clean - water soaked
8/28/12	JD	Yes	Clean - Sock wet 4"
9/4/12	JD	Yes	Clean - Sock wet 4"
9/11/12	JD	Yes	Clean - Sock wet 4"
9/17/12	JD	Yes	Clean - Sock wet 5"
9/24/12	JD	Yes	clean - Sock wet 5"
10/1/12	CLM	Yes	Sock Clean - 6"
10/3/12	HSC	Yes	~~Clean~~ Sock Clean - Sock wet 4"
10/8/12	JD	Yes	sock clean - Sock wet - 6"
10/15/12	JD	Yes	sock clean - wet 6"
10/22/12	JD	Yes	Sock Clean / wet 6-8"
10 29/12	JD	Yes	Sock Clean / 6" wet
11/5/12	JD	Yes	sock clean / 6" wet
11/12/12	JD	NO	Sock clean / 5" wet
11/19/12	JD	Yes	sock clean / 6" wet
11/26/12	JD	Yes	sock clean / 4" wet
12/3/12	JD	Yes	sock clean 4" wet
12/10/12	JD	NO	Sock Clean 3" wet

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Date	Initials	Sock Changed (Yes / No)	Comments
3/2/12	BP	NO	SOCK DAMP 1" NO OIL
3/15/12	BP	NO	SOCK DAMP 2" NO OIL
3/19/12	BP	Y	SOCK DAMP 2" NO OIL
3/30/12	BP	Y	SOCK DAMP 4" NO OIL
4/5/12	BP	N	SOCK DAMP 2" NO OIL
4/12/12	BP	N	SOCK DAMP 2" NO OIL
4/19/12	BP	Y	SOCK DAMP 2" NO OIL
4/25/12	CLM	Y	Sock Damp 4" NO OIL
5/3/12	BP	N	SOCK DAMP 2" NO OIL
5/11/12	BP	N	SOCK DAMP 4" NO OIL
5/17/12	BP	N	SOCK WET 10" NO OIL
5/21/12	BP	Y	SOCK WET 12" NO OIL
5/29/12	JD	Y	SOCK WET 6" NO OIL
6/6/12	JD	Y	Sock wet 12" NO OIL
6/11/12	JD	Yes	Sock wet 10" no oil
6/18/12	JD	Yes	Sock wet 10" no oil
6/29/12	JD	Yes	Sock wet 12" no oil
7/5/12	JD	Yes	Sock wet 14" no oil
7/13/12	JD	Yes	Sock wet 12" no oil
7/23/12	JD	Yes	Sock wet 15" no oil

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M&A-111

Date	Initials	Sock Changed (Yes / No)	Comments
10/7/11	BP	Y	SOCK WET
10/12/11	BP	Y	SOCK DAMP
10/26/11	BP	Y	SOCK DAMP
11/2/11	BP	Y	SOCK WET 6"
11/10/11	BP	Y	SOCK WET
11/17/11	BP	Y	SOCK DAMP
12/1/11	BP	Y	SOCK WET
12/7/11	BP	Y	SOCK DAMP
12/12/11	BP	Y	SOCK ~~SATURATED~~ DAMP ~~WATERLOGGED~~ BP NO OIL
12/20/11	BP	Y	SOCK WET, ~~SOME OIL~~ BP
12/29/11	BP	N	SOCK DAMP
1/6/12	BP	Y	SOCK WET
1/10/12	BP	Y	SOCK WET
1/19/12	BP	N	SOCK DAMP
1/27/12	BP	Y	SOCK DAMP 6" NO OIL
2/4/12	BP	N	SOCK DAMP 1" NO OIL
2/10/12	BP	N	SOCK DAMP 1" NO OIL
2/17/12	BP	Y	SOCK WET 6" NO OIL
2/22/12	BP	Y	SOCK DAMP 1" NO O/L
3/3/12	BP	N	SOCK DAMP 1" NO O/L

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M&A-111

Date	Initials	Sock Changed (Yes / No)	Comments
5-13-11	BP	N	SOCK CLEAN
5-20-11	BP	N	SOCK CLEAN
6-2-11	BP	N	SOCK WET 6" NO OIL
6-8-11	BP	N	SOCK WET NO OIL
6-16-11	BP	N	SOCK WET, NO OIL
6-22-11	CLM	Yes	Sock wet, no oil
7/1/11	BP	N	SOCK WET, NO OIL
7/6/11	BP	N	SOCK WET, NO OIL
7/13/11	BP	N	SOCK WET, NO ~~FREAKE~~ OIL
7/19/11	BP	Y	SOCK WET,
7/28/11	BP	N	SOCK CLEAN
8/3/11	BP	Y	SOCK WET NO OIL
8/11/11	BP	N	SOCK CLEAN NO OIL
8/15/11	BP	Y	SOCK WET NO OIL
8/24/11	BP	N	SOCK DAMP
9/2/11	BP	Y	SOCK WET NO OIL
9/8/11	BP	N	SOCK DAMP
9/16/11	BP	N	SOCK DAMP 6"
9/22/11	BP	N	SOCK DAMP 6"
9/30/11	BP	N	SOCK WET 6"

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info@mabbett.com
www.mabbett.com

M&A-111

Date	Initials	Sock Changed (Yes / No)	Comments
12-14-10	CLM	No	Sock Clean
12-30-10	BHP	NO	" SOCK CLEAN "
1-4-11	BHP	NO	SOCK CLEAN
1-14-11	BHP	NO	SOCK CLEAN
1-18-11	BP	NO	SOCK CLEAN
1-25-11	BP	NO	SOCK CLEAN
2-1-11	BP	NO	SOCK CLEAN
2-8-11	BP	NO	SOCK CLEAN
2-18-11	BP	NO	SOCK CLEAN
2-25-11	BP	NO	SOCK CLEAN
3-3-11	BP	NO	SOCK CLEAN
3-11-11	BP	NO	SOCK CLEAN
3-18-11	BP	NO	SOCK CLEAN
3-23-11	BP	NO	SOCK CLEAN
3-30-11	BP	NO	SOCK CLEAN
4-5-11	BP	NO	SOCK CLEAN
4-13-11	BP	NO	SOCK CLEAN
4-20-11	CLM	Yes	Sock Clean but water soaked
4-25-11	BP	NO	SOCK CLEAN
5-4-11	BP	N	SOCK CLEAN

APPENDIX C

DRM-2 Form

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Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

INSTRUCTIONS TO REQUEST REVIEW OR APPROVAL OF PLANS AND REPORTS BY THE ILLINOIS EPA UNDER THE SITE REMEDIATION PROGRAM (SRP) (FORM DRM-2)

General Information

A Remediation Applicant requesting review and evaluation of Site Remediation Program (SRP) plans and reports by the Illinois Environmental Protection Agency ("Illinois EPA") or by a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") must complete a DRM-2 Form for each plan or report. More than one plan or report may be submitted under cover of this form.

Please read the directions carefully and ensure that all required information is provided. When completing this form, the letters "NA" may be used, but only if the requested information is not applicable. Justification must be stated for any failure to provide applicable requested information. This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to:

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
Site Remediation Program
1021 N. Grand Avenue East
PO Box 19276
Springfield, IL 62794-9276

Hand-carried documents may be delivered during normal business hours (8:30 a.m. - 5 p.m.) to the above address.

To assist in implementing with your plans or reports, once they are approved by the Illinois EPA, you should keep a copy of every submittal and any relevant correspondence sent to the Illinois EPA.

Please fill out the applicable sections on this form. The requested information is described in the directions on the following pages.

*If a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") has been contracted to perform review and evaluation services, one additional copy of those plan(s) or report(s) must be included with the submittal. A RELPEG is a licensed professional engineer or geologist with whom a Remediation Applicant ("RA") has contracted to perform review and evaluation services under the direction of the Illinois EPA. The use of the RELPEG is an option available to an RA to obtain additional technical evaluation resources for a project. Additional information on how a RELPEG can used in the SRP is provide in the regulations (35 Ill. Adm. Code 740.235).

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Site Remediation Program Form (DRM-2)
(To be Submitted with all Plans and Reports)

You may complete this form online, save a copy, print, sign and mail it to the address above.

I. Site Identification:

Site Name: Bodycote Thermal Processing

Street Address: 1975 North Ruby Street P.O. Box:

City: Melrose Park State: IL Zip Code: 60160 Phone: 708-344-4080

Illinois Inventory ID Number: 0311860011 IEMA Incident Number: NA

II. Remediation Applicant:

Applicant's Name: Mr. Thomas Anderson

Company: Bodycote Thermal Processing

Street Address: 12700 Park Central Drive, Suite 700 P.O. Box:

City: Dallas State: TX Zip Code: 75251 Phone: 469-484-0010

Email Address: Thomas.Anderson@bodycote.com

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: Thomas Anderson Date: 7/23/14

III. Contact Person for Remediation Applicant:

Contact's Name: Mr. Thomas Anderson

Company: Bodycote Thermal Processing

Street Address: 12700 Park Central Drive, Suite 700 P.O. Box:

City: Dallas State: TX Zip Code: 75251 Phone: 469-484-0010

Email Address: Thomas.Anderson@bodycote.com

Contact Person for Consultant:

Contact's Name: Mr. Christopher Mabbett

Company: Mabbett & Associates, Inc.

Street Address: 5 Alfred Circle P.O. Box:

City: Bedford State: MA Zip Code: 01730 Phone: 781-275-6050

Email Address: cmabbett@mabbett.com

IV. Review & Evaluation Licensed Professional Engineer or Geologist ("RELPEG"), if applicable:

RELPEG's Name:

Company:

Street Address: P.O. Box:

City: State: Zip Code: Phone:

Email Address:

V. Project Documents Being Submitted:

Document Title: Free Product Recharge Study Completion Report (M&A-111)
Date of Preparation of Plan or Report: ~~June 2014~~ August 2014 (CLM)
Prepared by: Mabbett & Associates, Inc.
Prepared For: Tim Zook (IEPA)

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☑ Other: Free Product Study

Document Title:
Date of Preparation of Plan or Report:
Prepared by:
Prepared For:

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☐ Other:

Document Title:
Date of Preparation of Plan or Report:
Prepared by:
Prepared For:

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☐ Other:

VI. Professional Engineer's or Geologist's Seal or Stamp:

I attest that all site investigations or remedial activities that are subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 Felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Engineer's or Geologist's Name: Paul D. Steinberg

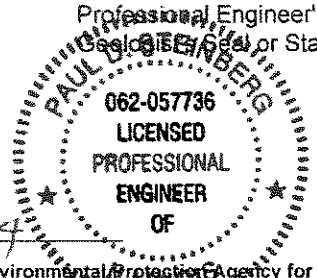
Company: Mabbett & Associates, Inc.

Registration Number: 062-057736 Phone: 781-275-6050

License Expiration Date: 11-30-2015

Signature: _____ Date: 8/11/14

Professional Engineer's or Geologist's Seal or Stamp:



Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f)), as amended by P. A. 92-0735, effective July 25, 2002. A Licensed Professional Geologist cannot certify Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations proumulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

APPENDIX D

M&A-111 Free Product Recharge Study Plan
IEPA Approval Letter November 2012

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397
PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

(217) 524-3300

November 8, 2012

7012 0470 0001 3006 3394

Mr. Thomas Anderson
Environmental Health & Safety
Bodycote Thermal Processing, Inc.
1975 North Ruby Street
Melrose Park, Il 60160

Re: 0311860011 / Cook County
Melrose Park / Bodycote Thermal Processing, Inc.
(Formerly Lindberg Heat Treating Company)
Site Remediation Program / Technical Reports

Dear Mr. Anderson:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the *Free Product Recharge Study Plan* (dated March 28, 2012, and received March 30, 2012/Log Number C-544-M-26), prepared by Mabbett & Associates, Inc. (M&A) for the above Remediation Site. The submittal concerns a proposal to conduct a product recharge study for a portion of the site, with the intent of demonstrating that Non-Aqueous Phase Liquid has been removed to the maximum extent practical. Remedial activities for contamination in the Heat Treatment Building (HTB) and the Gantry Salt Buildings (GB/SB) at the subject facility are being carried out under Illinois EPA's Site Remediation Program (SRP).

The *Free Product Recharge Study Plan* is approved, contingent on the following conditions and modifications:

1. The Illinois EPA concurs that the data indicates no measurable free product or visual staining/oil has been observed on the absorbent media at M&A-111 (Heat Treatment Building) for the past 4.5 years. Therefore, the facility may remove the oil absorbent media from monitoring well M&A-111 for a period of one year (four consecutive quarters) to determine if free product has been removed to the extent practicable.

2. Groundwater/free product surface elevations must be measured immediately after the absorbent media has been removed and for an additional three quarters thereafter. Should measurable free product be found during any the four consecutive quarters, the absorbent media must placed back into the well and the facility must continue product recovery. All data gathered from the quarterly events must be presented in the Report required in Condition 3 hereafter.

3. Within ninety (90) days of the date of the last quarterly monitoring event, the facility must submit a Product Recharge Study Report to the Illinois EPA for review and approval. The report must include, but need not be limited to, the following:

    a. Product elevation data, if any, collected from M&A-111 during the study;

    b. Groundwater elevation data collected during the study from all wells within the Heat Treatment Building, together with Groundwater Flow Maps created from this data;

    c. Groundwater analytical data collected from two years prior to and during the study from the wells located within the Heat Treatment Building;

    d. A summary of all the data presented; and

    e. Conclusions and recommendations.

4. Recharge study proposals for monitoring wells M&A-113 and M&A-114 must be submitted as a modification request for Illinois EPA review and approval. Prior to implementing the study, the facility must submit a detailed plan, which includes at a minimum, but need not be limited, the following:

    a. Introduction/Purpose. An introductory section should be in the report which contains: (1) General background information regarding the project; (2) The purpose and goals of the submittal; and (3) The scope of the project.

    b. Existing Site Conditions. The report should contain information regarding:

        i. The geology and hydrogeology, as appropriate, of the site; and

        ii. The contamination at the site including a description of all investigations conducted at the site to date, the horizontal and vertical extent of contamination, the physical and chemical properties of the contaminants of concern and the distribution of the contamination with the area of concern.

    c. Groundwater monitoring wells to be utilized in the study.

    d. Remedial Objectives.

    e. Estimated time to complete study.

5. Except as modified herein, remediation at the HTB and GB/SB shall be carried out in accordance with the plans approved by the Illinois EPA on December 28, 2000, March 12, 2001, July 24, 2001, and November 1, 2010.

APPENDIX E

Laboratory Analytical Reports

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 05, 2011 3:18:44PM

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

Work Order: NUD3816
Project Name: Bodycote 1998002.292
Project Nbr: 1998002.292
P/O Nbr: 4691
Date Received: 04/22/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MCA-5-042011	NUD3816-01	04/20/11 12:00
M&A-104-042011	NUD3816-02	04/20/11 10:45
M&A-111-042011	NUD3816-03	04/20/11 13:30
M&A-112-042011	NUD3816-04	04/20/11 16:40
M&A-115-042011	NUD3816-05	04/20/11 08:50
M&A-116-042011	NUD3816-06	04/20/11 06:30
M&A-122-042011	NUD3816-07	04/20/11 16:00
M&A-126-042011	NUD3816-08	04/20/11 14:15
TB-01-042011	NUD3816-09	04/20/11 12:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Illinois Certification Number: 200010

RELEASED
9/21/20 – 2020-003646
TJW per CLM

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-01 (MCA-5-042011 - Ground Water) Sampled: 04/20/11 12:00								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 04:06	SW846 8260B	11D6096
Benzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Bromobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Bromoform	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Bromomethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
2-Butanone	ND		ug/L	50.0	1	04/30/11 04:06	SW846 8260B	11D6096
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Chloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Chloroform	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Chloromethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Dibromomethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
cis-1,2-Dichloroethene	**36200**		ug/L	250	250	05/01/11 02:06	SW846 8260B	11E0023
1,1-Dichloroethene	**113**		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
trans-1,2-Dichloroethene	**482**		ug/L	25.0	25	05/01/11 01:38	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
2-Hexanone	ND		ug/L	50.0	1	04/30/11 04:06	SW846 8260B	11D6096
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-01 (MCA-5-042011 - Ground Water) - cont. Sampled: 04/20/11 12:00								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 04:06	SW846 8260B	11D6096
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 04:06	SW846 8260B	11D6096
Naphthalene	ND		ug/L	5.00	1	04/30/11 04:06	SW846 8260B	11D6096
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Styrene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Tetrachloroethene	**52.4**		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Toluene	**8.13**		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Trichloroethene	**49700**		ug/L	250	250	05/01/11 02:06	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 04:06	SW846 8260B	11D6096
Vinyl chloride	**2680**		ug/L	25.0	25	05/01/11 01:38	SW846 8260B	11E0023
Xylenes, total	ND		ug/L	3.00	1	04/30/11 04:06	SW846 8260B	11D6096
Surr: 1,2-Dichloroethane-d4 (63-140%)	*88 %*					*04/30/11 04:06*	*SW846 8260B*	*11D6096*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*95 %*					*05/01/11 01:38*	*SW846 8260B*	*11E0023*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*94 %*					*05/01/11 02:06*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*94 %*					*04/30/11 04:06*	*SW846 8260B*	*11D6096*
Surr: Dibromofluoromethane (73-131%)	*102 %*					*05/01/11 01:38*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*92 %*					*05/01/11 02:06*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*99 %*					*04/30/11 04:06*	*SW846 8260B*	*11D6096*
Surr: Toluene-d8 (80-120%)	*102 %*					*05/01/11 01:38*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 02:06*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*110 %*					*04/30/11 04:06*	*SW846 8260B*	*11D6096*
Surr: 4-Bromofluorobenzene (79-125%)	*107 %*					*05/01/11 01:38*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*106 %*					*05/01/11 02:06*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-02 (M&A-104-042011 - Ground Water) Sampled: 04/20/11 10:45								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 04:34	SW846 8260B	11D6096
Benzene	**2.08**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Bromobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Bromoform	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Bromomethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
2-Butanone	ND		ug/L	50.0	1	04/30/11 04:34	SW846 8260B	11D6096
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Chloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Chloroform	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Chloromethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Dibromomethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2-Dichlorobenzene	**1.46**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1-Dichloroethane	**12.9**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
cis-1,2-Dichloroethene	**54400**		ug/L	5000	5000	05/01/11 03:02	SW846 8260B	11E0023
1,1-Dichloroethene	**145**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
trans-1,2-Dichloroethene	**518**		ug/L	200	200	05/01/11 02:34	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1-Dichloropropene	**1.33**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Ethylbenzene	**12.1**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
2-Hexanone	ND		ug/L	50.0	1	04/30/11 04:34	SW846 8260B	11D6096
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-02 (M&A-104-042011 - Ground Water) - cont. Sampled: 04/20/11 10:45								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Methylene Chloride	**6.63**		ug/L	5.00	1	04/30/11 04:34	SW846 8260B	11D6096
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 04:34	SW846 8260B	11D6096
Naphthalene	ND		ug/L	5.00	1	04/30/11 04:34	SW846 8260B	11D6096
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Styrene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Tetrachloroethene	**2770**		ug/L	200	200	05/01/11 02:34	SW846 8260B	11E0023
Toluene	**154**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Trichloroethene	**382000**		ug/L	5000	5000	05/01/11 03:02	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,3,5-Trimethylbenzene	**1.33**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
1,2,4-Trimethylbenzene	**3.64**		ug/L	1.00	1	04/30/11 04:34	SW846 8260B	11D6096
Vinyl chloride	**4520**		ug/L	200	200	05/01/11 02:34	SW846 8260B	11E0023
Xylenes, total	**38.4**		ug/L	3.00	1	04/30/11 04:34	SW846 8260B	11D6096
Surr: 1,2-Dichloroethane-d4 (63-140%)	*74 %*					*04/30/11 04:34*	*SW846 8260B*	*11D6096*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*94 %*					*05/01/11 02:34*	*SW846 8260B*	*11E0023*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*95 %*					*05/01/11 03:02*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*80 %*					*04/30/11 04:34*	*SW846 8260B*	*11D6096*
Surr: Dibromofluoromethane (73-131%)	*102 %*					*05/01/11 02:34*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*95 %*					*05/01/11 03:02*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*100 %*					*04/30/11 04:34*	*SW846 8260B*	*11D6096*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 02:34*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*102 %*					*05/01/11 03:02*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*111 %*					*04/30/11 04:34*	*SW846 8260B*	*11D6096*
Surr: 4-Bromofluorobenzene (79-125%)	*104 %*					*05/01/11 02:34*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*109 %*					*05/01/11 03:02*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-03 (M&A-111-042011 - Ground Water) Sampled: 04/20/11 13:30								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND	RL1	ug/L	250	5	05/01/11 00:43	SW846 8260B	11E0023
Benzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Bromobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Bromochloromethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Bromodichloromethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Bromoform	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Bromomethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
2-Butanone	ND	RL1	ug/L	250	5	05/01/11 00:43	SW846 8260B	11E0023
sec-Butylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
n-Butylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
tert-Butylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Carbon disulfide	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Carbon Tetrachloride	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Chlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Chlorodibromomethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Chloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Chloroform	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Chloromethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
2-Chlorotoluene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
4-Chlorotoluene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	25.0	5	05/01/11 00:43	SW846 8260B	11E0023
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Dibromomethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,4-Dichlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,3-Dichlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2-Dichlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Dichlorodifluoromethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1-Dichloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2-Dichloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
cis-1,2-Dichloroethene	**1520**		ug/L	50.0	50	05/01/11 01:11	SW846 8260B	11E0023
1,1-Dichloroethene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
trans-1,2-Dichloroethene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,3-Dichloropropane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2-Dichloropropane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
2,2-Dichloropropane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
cis-1,3-Dichloropropene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
trans-1,3-Dichloropropene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1-Dichloropropene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Ethylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Hexachlorobutadiene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
2-Hexanone	ND	RL1	ug/L	250	5	05/01/11 00:43	SW846 8260B	11E0023
Isopropylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
p-Isopropyltoluene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-03 (M&A-111-042011 - Ground Water) - cont. Sampled: 04/20/11 13:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Methylene Chloride	ND	RL1	ug/L	25.0	5	05/01/11 00:43	SW846 8260B	11E0023
4-Methyl-2-pentanone	ND	RL1	ug/L	50.0	5	05/01/11 00:43	SW846 8260B	11E0023
Naphthalene	ND	RL1	ug/L	25.0	5	05/01/11 00:43	SW846 8260B	11E0023
n-Propylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Styrene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Tetrachloroethene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Toluene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2,3-Trichlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2,4-Trichlorobenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1,2-Trichloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,1,1-Trichloroethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Trichloroethene	**171**		ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Trichlorofluoromethane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2,3-Trichloropropane	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,3,5-Trimethylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
1,2,4-Trimethylbenzene	ND	RL1	ug/L	5.00	5	05/01/11 00:43	SW846 8260B	11E0023
Vinyl chloride	**2270**		ug/L	50.0	50	05/01/11 01:11	SW846 8260B	11E0023
Xylenes, total	ND	RL1	ug/L	15.0	5	05/01/11 00:43	SW846 8260B	11E0023
Surr: 1,2-Dichloroethane-d4 (63-140%)	*94 %*					*05/01/11 00:43*	*SW846 8260B*	*11E0023*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*96 %*					*05/01/11 01:11*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*92 %*					*05/01/11 00:43*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*91 %*					*05/01/11 01:11*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 00:43*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 01:11*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*107 %*					*05/01/11 00:43*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*106 %*					*05/01/11 01:11*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-04 (M&A-112-042011 - Ground Water) Sampled: 04/20/11 16:40								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 05:29	SW846 8260B	11D6096
Benzene	**1.66**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Bromobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Bromoform	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Bromomethane	**2.38**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
2-Butanone	ND		ug/L	50.0	1	04/30/11 05:29	SW846 8260B	11D6096
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Chloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Chloroform	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Chloromethane	**4.47**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Dibromomethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
cis-1,2-Dichloroethene	**5900**		ug/L	100	100	05/01/11 03:57	SW846 8260B	11E0023
1,1-Dichloroethene	**76.0**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
trans-1,2-Dichloroethene	**82.3**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
2-Hexanone	ND		ug/L	50.0	1	04/30/11 05:29	SW846 8260B	11D6096
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Sample ID: NUD3816-04 (M&A-112-042011 - Ground Water) - cont. Sampled: 04/20/11 16:40

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 05:29	SW846 8260B	11D6096
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 05:29	SW846 8260B	11D6096
Naphthalene	ND		ug/L	5.00	1	04/30/11 05:29	SW846 8260B	11D6096
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Styrene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Tetrachloroethene	**111**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Toluene	**4.01**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Trichloroethene	**4980**		ug/L	100	100	05/01/11 03:57	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,3,5-Trimethylbenzene	**1.57**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
1,2,4-Trimethylbenzene	**2.19**		ug/L	1.00	1	04/30/11 05:29	SW846 8260B	11D6096
Vinyl chloride	**614**		ug/L	10.0	10	05/01/11 03:29	SW846 8260B	11E0023
Xylenes, total	**3.27**		ug/L	3.00	1	04/30/11 05:29	SW846 8260B	11D6096
Surr: 1,2-Dichloroethane-d4 (63-140%)	*94 %*					*04/30/11 05:29*	*SW846 8260B*	*11D6096*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*94 %*					*05/01/11 03:29*	*SW846 8260B*	*11E0023*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*95 %*					*05/01/11 03:57*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*102 %*					*04/30/11 05:29*	*SW846 8260B*	*11D6096*
Surr: Dibromofluoromethane (73-131%)	*102 %*					*05/01/11 03:29*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*99 %*					*05/01/11 03:57*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*102 %*					*04/30/11 05:29*	*SW846 8260B*	*11D6096*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 03:29*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*103 %*					*05/01/11 03:57*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*109 %*					*04/30/11 05:29*	*SW846 8260B*	*11D6096*
Surr: 4-Bromofluorobenzene (79-125%)	*108 %*					*05/01/11 03:29*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*108 %*					*05/01/11 03:57*	*SW846 8260B*	*11E0023*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-05 (M&A-115-042011 - Ground Water) Sampled: 04/20/11 08:50								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 20:06	SW846 8260B	11E0023
Benzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Bromobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Bromoform	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Bromomethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
2-Butanone	ND		ug/L	50.0	1	04/30/11 20:06	SW846 8260B	11E0023
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Chloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Chloroform	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Chloromethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Dibromomethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
cis-1,2-Dichloroethene	**54.2**		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1-Dichloroethene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
2-Hexanone	ND		ug/L	50.0	1	04/30/11 20:06	SW846 8260B	11E0023
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-05 (M&A-115-042011 - Ground Water) - cont. Sampled: 04/20/11 08:50								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 20:06	SW846 8260B	11E0023
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 20:06	SW846 8260B	11E0023
Naphthalene	ND		ug/L	5.00	1	04/30/11 20:06	SW846 8260B	11E0023
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Styrene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Tetrachloroethene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Toluene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Trichloroethene	**4.29**		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Vinyl chloride	ND		ug/L	1.00	1	04/30/11 20:06	SW846 8260B	11E0023
Xylenes, total	ND		ug/L	3.00	1	04/30/11 20:06	SW846 8260B	11E0023
Surr: 1,2-Dichloroethane-d4 (63-140%)	*95 %*					*04/30/11 20:06*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*99 %*					*04/30/11 20:06*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*101 %*					*04/30/11 20:06*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*106 %*					*04/30/11 20:06*	*SW846 8260B*	*11E0023*

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Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-06 (M&A-116-042011 - Ground Water) Sampled: 04/20/11 06:30								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 20:33	SW846 8260B	11E0023
Benzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Bromobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Bromoform	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Bromomethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
2-Butanone	ND		ug/L	50.0	1	04/30/11 20:33	SW846 8260B	11E0023
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Chloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Chloroform	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Chloromethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Dibromomethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
cis-1,2-Dichloroethene	**13.8**		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1-Dichloroethene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
trans-1,2-Dichloroethene	**1.55**		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
2-Hexanone	ND		ug/L	50.0	1	04/30/11 20:33	SW846 8260B	11E0023
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023

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Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Sample ID: NUD3816-06 (M&A-116-042011 - Ground Water) - cont. Sampled: 04/20/11 06:30

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 20:33	SW846 8260B	11E0023
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 20:33	SW846 8260B	11E0023
Naphthalene	ND		ug/L	5.00	1	04/30/11 20:33	SW846 8260B	11E0023
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Styrene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Tetrachloroethene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Toluene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Trichloroethene	**11.6**		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Vinyl chloride	ND		ug/L	1.00	1	04/30/11 20:33	SW846 8260B	11E0023
Xylenes, total	ND		ug/L	3.00	1	04/30/11 20:33	SW846 8260B	11E0023
Surr: 1,2-Dichloroethane-d4 (63-140%)	*96 %*					*04/30/11 20:33*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*98 %*					*04/30/11 20:33*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*102 %*					*04/30/11 20:33*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*107 %*					*04/30/11 20:33*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-07 (M&A-122-042011 - Ground Water) Sampled: 04/20/11 16:00								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 21:01	SW846 8260B	11E0023
Benzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Bromobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Bromoform	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Bromomethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
2-Butanone	ND		ug/L	50.0	1	04/30/11 21:01	SW846 8260B	11E0023
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Chloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Chloroform	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Chloromethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Dibromomethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
2-Hexanone	ND		ug/L	50.0	1	04/30/11 21:01	SW846 8260B	11E0023
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-07 (M&A-122-042011 - Ground Water) - cont. Sampled: 04/20/11 16:00								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 21:01	SW846 8260B	11E0023
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 21:01	SW846 8260B	11E0023
Naphthalene	ND		ug/L	5.00	1	04/30/11 21:01	SW846 8260B	11E0023
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Styrene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Tetrachloroethene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Toluene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Trichloroethene	**1.88**		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Vinyl chloride	ND		ug/L	1.00	1	04/30/11 21:01	SW846 8260B	11E0023
Xylenes, total	ND		ug/L	3.00	1	04/30/11 21:01	SW846 8260B	11E0023
Surr: 1,2-Dichloroethane-d4 (63-140%)	*89 %*					*04/30/11 21:01*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*92 %*					*04/30/11 21:01*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*101 %*					*04/30/11 21:01*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*105 %*					*04/30/11 21:01*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-08 (M&A-126-042011 - Ground Water) Sampled: 04/20/11 14:15								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/30/11 21:29	SW846 8260B	11E0023
Benzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Bromobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Bromochloromethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Bromodichloromethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Bromoform	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Bromomethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
2-Butanone	ND		ug/L	50.0	1	04/30/11 21:29	SW846 8260B	11E0023
sec-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
n-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
tert-Butylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Carbon disulfide	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Carbon Tetrachloride	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Chlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Chlorodibromomethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Chloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Chloroform	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Chloromethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
2-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
4-Chlorotoluene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Dibromomethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1-Dichloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2-Dichloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,3-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
2,2-Dichloropropane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1-Dichloropropene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Ethylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Hexachlorobutadiene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
2-Hexanone	ND		ug/L	50.0	1	04/30/11 21:29	SW846 8260B	11E0023
Isopropylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
p-Isopropyltoluene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-08 (M&A-126-042011 - Ground Water) - cont. Sampled: 04/20/11 14:15								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Methylene Chloride	ND		ug/L	5.00	1	04/30/11 21:29	SW846 8260B	11E0023
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/30/11 21:29	SW846 8260B	11E0023
Naphthalene	ND		ug/L	5.00	1	04/30/11 21:29	SW846 8260B	11E0023
n-Propylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Styrene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Tetrachloroethene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Toluene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Trichloroethene	**21.1**		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Trichlorofluoromethane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Vinyl chloride	ND		ug/L	1.00	1	04/30/11 21:29	SW846 8260B	11E0023
Xylenes, total	ND		ug/L	3.00	1	04/30/11 21:29	SW846 8260B	11E0023
Surr: 1,2-Dichloroethane-d4 (63-140%)	*95 %*					*04/30/11 21:29*	*SW846 8260B*	*11E0023*
Surr: Dibromofluoromethane (73-131%)	*90 %*					*04/30/11 21:29*	*SW846 8260B*	*11E0023*
Surr: Toluene-d8 (80-120%)	*101 %*					*04/30/11 21:29*	*SW846 8260B*	*11E0023*
Surr: 4-Bromofluorobenzene (79-125%)	*103 %*					*04/30/11 21:29*	*SW846 8260B*	*11E0023*

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-09 (TB-01-042011 - Water) Sampled: 04/20/11 12:00								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	04/29/11 18:53	SW846 8260B	11D7077
Benzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Bromobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Bromochloromethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Bromodichloromethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Bromoform	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Bromomethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
2-Butanone	ND		ug/L	50.0	1	04/29/11 18:53	SW846 8260B	11D7077
sec-Butylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
n-Butylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
tert-Butylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Carbon disulfide	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Carbon Tetrachloride	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Chlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Chlorodibromomethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Chloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Chloroform	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Chloromethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
2-Chlorotoluene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
4-Chlorotoluene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Dibromomethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,4-Dichlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,3-Dichlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2-Dichlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Dichlorodifluoromethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1-Dichloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2-Dichloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1-Dichloroethene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,3-Dichloropropane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2-Dichloropropane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
2,2-Dichloropropane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1-Dichloropropene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Ethylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Hexachlorobutadiene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
2-Hexanone	ND		ug/L	50.0	1	04/29/11 18:53	SW846 8260B	11D7077
Isopropylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
p-Isopropyltoluene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NUD3816-09 (TB-01-042011 - Water) - cont. Sampled: 04/20/11 12:00								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Methylene Chloride	ND		ug/L	5.00	1	04/29/11 18:53	SW846 8260B	11D7077
4-Methyl-2-pentanone	ND		ug/L	10.0	1	04/29/11 18:53	SW846 8260B	11D7077
Naphthalene	ND		ug/L	5.00	1	04/29/11 18:53	SW846 8260B	11D7077
n-Propylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Styrene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Tetrachloroethene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Toluene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1,2-Trichloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,1,1-Trichloroethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Trichloroethene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Trichlorofluoromethane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2,3-Trichloropropane	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Vinyl chloride	ND		ug/L	1.00	1	04/29/11 18:53	SW846 8260B	11D7077
Xylenes, total	ND		ug/L	3.00	1	04/29/11 18:53	SW846 8260B	11D7077
Surr: 1,2-Dichloroethane-d4 (63-140%)	*93 %*					*04/29/11 18:53*	*SW846 8260B*	*11D7077*
Surr: Dibromofluoromethane (73-131%)	*96 %*					*04/29/11 18:53*	*SW846 8260B*	*11D7077*
Surr: Toluene-d8 (80-120%)	*101 %*					*04/29/11 18:53*	*SW846 8260B*	*11D7077*
Surr: 4-Bromofluorobenzene (79-125%)	*104 %*					*04/29/11 18:53*	*SW846 8260B*	*11D7077*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D6096-BLK1						
Acetone	<25.0		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Benzene	<0.270		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Bromobenzene	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Bromochloromethane	<0.440		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Bromodichloromethane	<0.370		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Bromoform	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Bromomethane	<0.470		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
2-Butanone	<1.70		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
sec-Butylbenzene	<0.200		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
n-Butylbenzene	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
tert-Butylbenzene	<0.200		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Carbon disulfide	<0.290		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Carbon Tetrachloride	<0.270		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Chlorobenzene	<0.380		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Chlorodibromomethane	<0.300		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Chloroethane	<0.410		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Chloroform	<0.470		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Chloromethane	<0.180		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
2-Chlorotoluene	<0.250		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
4-Chlorotoluene	<0.270		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2-Dibromo-3-chloropropane	<0.200		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2-Dibromoethane (EDB)	<0.340		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Dibromomethane	<0.430		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,4-Dichlorobenzene	<0.250		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,3-Dichlorobenzene	<0.490		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2-Dichlorobenzene	<0.200		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Dichlorodifluoromethane	<0.140		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1-Dichloroethane	<0.320		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2-Dichloroethane	<0.380		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
cis-1,2-Dichloroethene	<0.380		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1-Dichloroethene	<0.360		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
trans-1,2-Dichloroethene	<0.360		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,3-Dichloropropane	<0.280		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2-Dichloropropane	<0.330		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
2,2-Dichloropropane	<0.260		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
cis-1,3-Dichloropropene	<0.190		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
trans-1,3-Dichloropropene	<0.160		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1-Dichloropropene	<0.300		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Ethylbenzene	<0.320		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Hexachlorobutadiene	<0.310		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
2-Hexanone	<2.20		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D6096-BLK1						
Isopropylbenzene	<0.240		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
p-Isopropyltoluene	<0.210		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Methyl tert-Butyl Ether	<0.320		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Methylene Chloride	1.08		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
4-Methyl-2-pentanone	<1.60		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Naphthalene	<0.170		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
n-Propylbenzene	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Styrene	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1,1,2-Tetrachloroethane	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1,2,2-Tetrachloroethane	<0.250		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Tetrachloroethene	<0.220		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Toluene	<0.330		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2,3-Trichlorobenzene	<0.140		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2,4-Trichlorobenzene	<0.240		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1,2-Trichloroethane	<0.380		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,1,1-Trichloroethane	<0.350		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Trichloroethene	<0.370		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Trichlorofluoromethane	<0.300		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2,3-Trichloropropane	<0.460		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,3,5-Trimethylbenzene	<0.230		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
1,2,4-Trimethylbenzene	<0.200		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Vinyl chloride	<0.360		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Xylenes, total	<0.870		ug/L	11D6096	11D6096-BLK1	04/30/11 03:39
Surrogate: 1,2-Dichloroethane-d4	97%			11D6096	11D6096-BLK1	04/30/11 03:39
Surrogate: Dibromofluoromethane	102%			11D6096	11D6096-BLK1	04/30/11 03:39
Surrogate: Toluene-d8	103%			11D6096	11D6096-BLK1	04/30/11 03:39
Surrogate: 4-Bromofluorobenzene	107%			11D6096	11D6096-BLK1	04/30/11 03:39
11D7077-BLK1						
Acetone	<25.0		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Benzene	<0.270		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Bromobenzene	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Bromochloromethane	<0.440		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Bromodichloromethane	<0.370		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Bromoform	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Bromomethane	<0.470		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
2-Butanone	<1.70		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
sec-Butylbenzene	<0.200		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
n-Butylbenzene	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
tert-Butylbenzene	<0.200		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Carbon disulfide	<0.290		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36

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Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D7077-BLK1						
Carbon Tetrachloride	<0.270		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Chlorobenzene	<0.380		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Chlorodibromomethane	<0.300		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Chloroethane	<0.410		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Chloroform	<0.470		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Chloromethane	<0.180		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
2-Chlorotoluene	<0.250		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
4-Chlorotoluene	<0.270		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2-Dibromo-3-chloropropane	<0.200		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2-Dibromoethane (EDB)	<0.340		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Dibromomethane	<0.430		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,4-Dichlorobenzene	<0.250		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,3-Dichlorobenzene	<0.490		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2-Dichlorobenzene	<0.200		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Dichlorodifluoromethane	<0.140		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1-Dichloroethane	<0.320		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2-Dichloroethane	<0.380		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
cis-1,2-Dichloroethene	<0.380		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1-Dichloroethene	<0.360		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
trans-1,2-Dichloroethene	<0.360		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,3-Dichloropropane	<0.280		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2-Dichloropropane	<0.330		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
2,2-Dichloropropane	<0.260		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
cis-1,3-Dichloropropene	<0.190		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
trans-1,3-Dichloropropene	<0.160		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1-Dichloropropene	<0.300		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Ethylbenzene	<0.320		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Hexachlorobutadiene	<0.310		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
2-Hexanone	<2.20		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Isopropylbenzene	<0.240		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
p-Isopropyltoluene	<0.210		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Methyl tert-Butyl Ether	<0.320		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Methylene Chloride	0.870		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
4-Methyl-2-pentanone	<1.60		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Naphthalene	<0.170		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
n-Propylbenzene	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Styrene	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1,1,2-Tetrachloroethane	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1,2,2-Tetrachloroethane	<0.250		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Tetrachloroethene	<0.220		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Toluene	<0.330		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D7077-BLK1						
1,2,3-Trichlorobenzene	<0.140		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2,4-Trichlorobenzene	<0.240		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1,2-Trichloroethane	<0.380		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,1,1-Trichloroethane	<0.350		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Trichloroethene	<0.370		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Trichlorofluoromethane	<0.300		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2,3-Trichloropropane	<0.460		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,3,5-Trimethylbenzene	<0.230		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
1,2,4-Trimethylbenzene	<0.200		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Vinyl chloride	<0.360		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Xylenes, total	<0.870		ug/L	11D7077	11D7077-BLK1	04/29/11 15:36
Surrogate: 1,2-Dichloroethane-d4	93%			11D7077	11D7077-BLK1	04/29/11 15:36
Surrogate: Dibromofluoromethane	96%			11D7077	11D7077-BLK1	04/29/11 15:36
Surrogate: Toluene-d8	103%			11D7077	11D7077-BLK1	04/29/11 15:36
Surrogate: 4-Bromofluorobenzene	105%			11D7077	11D7077-BLK1	04/29/11 15:36
11E0023-BLK1						
Acetone	<25.0		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Benzene	<0.270		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Bromobenzene	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Bromochloromethane	<0.440		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Bromodichloromethane	<0.370		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Bromoform	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Bromomethane	<0.470		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
2-Butanone	<1.70		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
sec-Butylbenzene	<0.200		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
n-Butylbenzene	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
tert-Butylbenzene	<0.200		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Carbon disulfide	<0.290		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Carbon Tetrachloride	<0.270		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Chlorobenzene	<0.380		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Chlorodibromomethane	<0.300		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Chloroethane	<0.410		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Chloroform	<0.470		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Chloromethane	<0.180		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
2-Chlorotoluene	<0.250		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
4-Chlorotoluene	<0.270		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2-Dibromo-3-chloropropane	<0.200		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2-Dibromoethane (EDB)	<0.340		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Dibromomethane	<0.430		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,4-Dichlorobenzene	<0.250		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11E0023-BLK1						
1,3-Dichlorobenzene	<0.490		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2-Dichlorobenzene	<0.200		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Dichlorodifluoromethane	<0.140		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1-Dichloroethane	<0.320		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2-Dichloroethane	<0.380		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
cis-1,2-Dichloroethene	<0.380		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1-Dichloroethene	<0.360		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
trans-1,2-Dichloroethene	<0.360		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,3-Dichloropropane	<0.280		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2-Dichloropropane	<0.330		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
2,2-Dichloropropane	<0.260		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
cis-1,3-Dichloropropene	<0.190		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
trans-1,3-Dichloropropene	<0.160		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1-Dichloropropene	<0.300		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Ethylbenzene	<0.320		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Hexachlorobutadiene	<0.310		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
2-Hexanone	<2.20		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Isopropylbenzene	<0.240		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
p-Isopropyltoluene	<0.210		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Methyl tert-Butyl Ether	<0.320		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Methylene Chloride	0.970		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
4-Methyl-2-pentanone	<1.60		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Naphthalene	<0.170		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
n-Propylbenzene	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Styrene	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1,1,2-Tetrachloroethane	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1,2,2-Tetrachloroethane	<0.250		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Tetrachloroethene	<0.220		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Toluene	<0.330		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2,3-Trichlorobenzene	<0.140		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2,4-Trichlorobenzene	<0.240		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1,2-Trichloroethane	<0.380		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,1,1-Trichloroethane	<0.350		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Trichloroethene	0.460		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Trichlorofluoromethane	<0.300		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2,3-Trichloropropane	<0.460		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,3,5-Trimethylbenzene	<0.230		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
1,2,4-Trimethylbenzene	<0.200		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Vinyl chloride	<0.360		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Xylenes, total	<0.870		ug/L	11E0023	11E0023-BLK1	04/30/11 19:08
Surrogate: 1,2-Dichloroethane-d4	98%			11E0023	11E0023-BLK1	04/30/11 19:08

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11E0023-BLK1						
Surrogate: Dibromofluoromethane	99%			11E0023	11E0023-BLK1	04/30/11 19:08
Surrogate: Toluene-d8	103%			11E0023	11E0023-BLK1	04/30/11 19:08
Surrogate: 4-Bromofluorobenzene	103%			11E0023	11E0023-BLK1	04/30/11 19:08

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D6096-BS1								
Acetone	100	74.7		ug/L	75%	56 - 150	11D6096	04/30/11 02:16
Benzene	20.0	21.6		ug/L	108%	80 - 121	11D6096	04/30/11 02:16
Bromobenzene	20.0	21.7		ug/L	109%	72 - 130	11D6096	04/30/11 02:16
Bromochloromethane	20.0	22.8		ug/L	114%	73 - 137	11D6096	04/30/11 02:16
Bromodichloromethane	20.0	19.4		ug/L	97%	75 - 131	11D6096	04/30/11 02:16
Bromoform	20.0	17.4		ug/L	87%	65 - 140	11D6096	04/30/11 02:16
Bromomethane	20.0	18.8		ug/L	94%	50 - 150	11D6096	04/30/11 02:16
2-Butanone	100	83.1		ug/L	83%	70 - 144	11D6096	04/30/11 02:16
sec-Butylbenzene	20.0	24.3		ug/L	122%	72 - 140	11D6096	04/30/11 02:16
n-Butylbenzene	20.0	20.1		ug/L	100%	68 - 140	11D6096	04/30/11 02:16
tert-Butylbenzene	20.0	21.8		ug/L	109%	76 - 135	11D6096	04/30/11 02:16
Carbon disulfide	20.0	17.6		ug/L	88%	74 - 137	11D6096	04/30/11 02:16
Carbon Tetrachloride	20.0	19.9		ug/L	100%	71 - 137	11D6096	04/30/11 02:16
Chlorobenzene	20.0	21.0		ug/L	105%	80 - 121	11D6096	04/30/11 02:16
Chlorodibromomethane	20.0	19.3		ug/L	97%	68 - 137	11D6096	04/30/11 02:16
Chloroethane	20.0	16.4		ug/L	82%	50 - 146	11D6096	04/30/11 02:16
Chloroform	20.0	22.2		ug/L	111%	73 - 131	11D6096	04/30/11 02:16
Chloromethane	20.0	16.8		ug/L	84%	30 - 132	11D6096	04/30/11 02:16
2-Chlorotoluene	20.0	22.7		ug/L	113%	74 - 135	11D6096	04/30/11 02:16
4-Chlorotoluene	20.0	23.1		ug/L	115%	74 - 132	11D6096	04/30/11 02:16
1,2-Dibromo-3-chloropropane	20.0	16.3		ug/L	82%	56 - 145	11D6096	04/30/11 02:16
1,2-Dibromoethane (EDB)	20.0	21.5		ug/L	108%	80 - 135	11D6096	04/30/11 02:16
Dibromomethane	20.0	21.1		ug/L	106%	78 - 133	11D6096	04/30/11 02:16
1,4-Dichlorobenzene	20.0	20.3		ug/L	102%	80 - 120	11D6096	04/30/11 02:16
1,3-Dichlorobenzene	20.0	21.4		ug/L	107%	80 - 128	11D6096	04/30/11 02:16
1,2-Dichlorobenzene	20.0	20.8		ug/L	104%	80 - 125	11D6096	04/30/11 02:16
Dichlorodifluoromethane	20.0	16.4		ug/L	82%	30 - 132	11D6096	04/30/11 02:16
1,1-Dichloroethane	20.0	20.5		ug/L	103%	75 - 125	11D6096	04/30/11 02:16
1,2-Dichloroethane	20.0	19.6		ug/L	98%	70 - 134	11D6096	04/30/11 02:16
cis-1,2-Dichloroethene	20.0	21.4		ug/L	107%	71 - 132	11D6096	04/30/11 02:16
1,1-Dichloroethene	20.0	19.9		ug/L	100%	73 - 125	11D6096	04/30/11 02:16
trans-1,2-Dichloroethene	20.0	19.9		ug/L	99%	77 - 125	11D6096	04/30/11 02:16
1,3-Dichloropropane	20.0	21.5		ug/L	108%	76 - 125	11D6096	04/30/11 02:16
1,2-Dichloropropane	20.0	20.2		ug/L	101%	72 - 120	11D6096	04/30/11 02:16
2,2-Dichloropropane	20.0	19.2		ug/L	96%	50 - 150	11D6096	04/30/11 02:16
cis-1,3-Dichloropropene	20.0	22.4		ug/L	112%	70 - 140	11D6096	04/30/11 02:16
trans-1,3-Dichloropropene	20.0	20.5		ug/L	103%	62 - 139	11D6096	04/30/11 02:16
1,1-Dichloropropene	20.0	21.4		ug/L	107%	78 - 126	11D6096	04/30/11 02:16
Ethylbenzene	20.0	23.1		ug/L	116%	78 - 133	11D6096	04/30/11 02:16
Hexachlorobutadiene	20.0	18.6		ug/L	93%	70 - 150	11D6096	04/30/11 02:16
2-Hexanone	100	85.8		ug/L	86%	60 - 150	11D6096	04/30/11 02:16

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D6096-BS1								
Isopropylbenzene	20.0	23.2		ug/L	116%	69 - 120	11D6096	04/30/11 02:16
p-Isopropyltoluene	20.0	21.3		ug/L	107%	72 - 134	11D6096	04/30/11 02:16
Methyl tert-Butyl Ether	20.0	20.2		ug/L	101%	76 - 120	11D6096	04/30/11 02:16
Methylene Chloride	20.0	19.0		ug/L	95%	80 - 133	11D6096	04/30/11 02:16
4-Methyl-2-pentanone	100	95.0		ug/L	95%	62 - 146	11D6096	04/30/11 02:16
Naphthalene	20.0	16.6		ug/L	83%	71 - 139	11D6096	04/30/11 02:16
n-Propylbenzene	20.0	23.4		ug/L	117%	70 - 143	11D6096	04/30/11 02:16
Styrene	20.0	21.0		ug/L	105%	80 - 136	11D6096	04/30/11 02:16
1,1,1,2-Tetrachloroethane	20.0	22.6		ug/L	113%	80 - 130	11D6096	04/30/11 02:16
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L	96%	73 - 131	11D6096	04/30/11 02:16
Tetrachloroethene	20.0	20.8		ug/L	104%	77 - 131	11D6096	04/30/11 02:16
Toluene	20.0	21.9		ug/L	110%	78 - 125	11D6096	04/30/11 02:16
1,2,3-Trichlorobenzene	20.0	16.8		ug/L	84%	71 - 138	11D6096	04/30/11 02:16
1,2,4-Trichlorobenzene	20.0	17.9		ug/L	90%	74 - 136	11D6096	04/30/11 02:16
1,1,2-Trichloroethane	20.0	21.0		ug/L	105%	80 - 123	11D6096	04/30/11 02:16
1,1,1-Trichloroethane	20.0	22.4		ug/L	112%	75 - 137	11D6096	04/30/11 02:16
Trichloroethene	20.0	21.5		ug/L	108%	74 - 139	11D6096	04/30/11 02:16
Trichlorofluoromethane	20.0	16.6		ug/L	83%	60 - 133	11D6096	04/30/11 02:16
1,2,3-Trichloropropane	20.0	18.7		ug/L	93%	64 - 127	11D6096	04/30/11 02:16
1,3,5-Trimethylbenzene	20.0	23.9		ug/L	120%	75 - 134	11D6096	04/30/11 02:16
1,2,4-Trimethylbenzene	20.0	20.7		ug/L	104%	77 - 134	11D6096	04/30/11 02:16
Vinyl chloride	20.0	16.4		ug/L	82%	60 - 122	11D6096	04/30/11 02:16
Xylenes, total	60.0	68.5		ug/L	114%	78 - 134	11D6096	04/30/11 02:16
Surrogate: 1,2-Dichloroethane-d4	30.0	27.9			93%	63 - 140	11D6096	04/30/11 02:16
Surrogate: Dibromofluoromethane	30.0	31.4			105%	73 - 131	11D6096	04/30/11 02:16
Surrogate: Toluene-d8	30.0	31.2			104%	80 - 120	11D6096	04/30/11 02:16
Surrogate: 4-Bromofluorobenzene	30.0	31.4			105%	79 - 125	11D6096	04/30/11 02:16
11D7077-BS1								
Acetone	100	93.0		ug/L	93%	56 - 150	11D7077	04/29/11 14:13
Benzene	20.0	22.2		ug/L	111%	80 - 121	11D7077	04/29/11 14:13
Bromobenzene	20.0	22.3		ug/L	112%	72 - 130	11D7077	04/29/11 14:13
Bromochloromethane	20.0	22.1		ug/L	110%	73 - 137	11D7077	04/29/11 14:13
Bromodichloromethane	20.0	20.0		ug/L	100%	75 - 131	11D7077	04/29/11 14:13
Bromoform	20.0	17.9		ug/L	89%	65 - 140	11D7077	04/29/11 14:13
Bromomethane	20.0	19.7		ug/L	98%	50 - 150	11D7077	04/29/11 14:13
2-Butanone	100	94.6		ug/L	95%	70 - 144	11D7077	04/29/11 14:13
sec-Butylbenzene	20.0	25.6		ug/L	128%	72 - 140	11D7077	04/29/11 14:13
n-Butylbenzene	20.0	22.4		ug/L	112%	68 - 140	11D7077	04/29/11 14:13
tert-Butylbenzene	20.0	22.6		ug/L	113%	76 - 135	11D7077	04/29/11 14:13
Carbon disulfide	20.0	20.0		ug/L	100%	74 - 137	11D7077	04/29/11 14:13

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D7077-BS1								
Carbon Tetrachloride	20.0	18.1		ug/L	91%	71 - 137	11D7077	04/29/11 14:13
Chlorobenzene	20.0	21.3		ug/L	106%	80 - 121	11D7077	04/29/11 14:13
Chlorodibromomethane	20.0	19.4		ug/L	97%	68 - 137	11D7077	04/29/11 14:13
Chloroethane	20.0	18.6		ug/L	93%	50 - 146	11D7077	04/29/11 14:13
Chloroform	20.0	21.8		ug/L	109%	73 - 131	11D7077	04/29/11 14:13
Chloromethane	20.0	18.1		ug/L	91%	30 - 132	11D7077	04/29/11 14:13
2-Chlorotoluene	20.0	23.2		ug/L	116%	74 - 135	11D7077	04/29/11 14:13
4-Chlorotoluene	20.0	24.1		ug/L	120%	74 - 132	11D7077	04/29/11 14:13
1,2-Dibromo-3-chloropropane	20.0	18.3		ug/L	91%	56 - 145	11D7077	04/29/11 14:13
1,2-Dibromoethane (EDB)	20.0	22.2		ug/L	111%	80 - 135	11D7077	04/29/11 14:13
Dibromomethane	20.0	22.5		ug/L	112%	78 - 133	11D7077	04/29/11 14:13
1,4-Dichlorobenzene	20.0	21.6		ug/L	108%	80 - 120	11D7077	04/29/11 14:13
1,3-Dichlorobenzene	20.0	22.4		ug/L	112%	80 - 128	11D7077	04/29/11 14:13
1,2-Dichlorobenzene	20.0	22.1		ug/L	110%	80 - 125	11D7077	04/29/11 14:13
Dichlorodifluoromethane	20.0	19.1		ug/L	95%	30 - 132	11D7077	04/29/11 14:13
1,1-Dichloroethane	20.0	22.6		ug/L	113%	75 - 125	11D7077	04/29/11 14:13
1,2-Dichloroethane	20.0	19.8		ug/L	99%	70 - 134	11D7077	04/29/11 14:13
cis-1,2-Dichloroethene	20.0	23.0		ug/L	115%	71 - 132	11D7077	04/29/11 14:13
1,1-Dichloroethene	20.0	21.3		ug/L	106%	73 - 125	11D7077	04/29/11 14:13
trans-1,2-Dichloroethene	20.0	21.7		ug/L	109%	77 - 125	11D7077	04/29/11 14:13
1,3-Dichloropropane	20.0	21.9		ug/L	109%	76 - 125	11D7077	04/29/11 14:13
1,2-Dichloropropane	20.0	22.8		ug/L	114%	72 - 120	11D7077	04/29/11 14:13
2,2-Dichloropropane	20.0	24.1		ug/L	121%	50 - 150	11D7077	04/29/11 14:13
cis-1,3-Dichloropropene	20.0	22.6		ug/L	113%	70 - 140	11D7077	04/29/11 14:13
trans-1,3-Dichloropropene	20.0	20.5		ug/L	102%	62 - 139	11D7077	04/29/11 14:13
1,1-Dichloropropene	20.0	22.4		ug/L	112%	78 - 126	11D7077	04/29/11 14:13
Ethylbenzene	20.0	23.8		ug/L	119%	78 - 133	11D7077	04/29/11 14:13
Hexachlorobutadiene	20.0	21.9		ug/L	110%	70 - 150	11D7077	04/29/11 14:13
2-Hexanone	100	95.2		ug/L	95%	60 - 150	11D7077	04/29/11 14:13
Isopropylbenzene	20.0	24.0		ug/L	120%	69 - 120	11D7077	04/29/11 14:13
p-Isopropyltoluene	20.0	22.6		ug/L	113%	72 - 134	11D7077	04/29/11 14:13
Methyl tert-Butyl Ether	20.0	22.4		ug/L	112%	76 - 120	11D7077	04/29/11 14:13
Methylene Chloride	20.0	20.8		ug/L	104%	80 - 133	11D7077	04/29/11 14:13
4-Methyl-2-pentanone	100	99.0		ug/L	99%	62 - 146	11D7077	04/29/11 14:13
Naphthalene	20.0	19.6		ug/L	98%	71 - 139	11D7077	04/29/11 14:13
n-Propylbenzene	20.0	24.6		ug/L	123%	70 - 143	11D7077	04/29/11 14:13
Styrene	20.0	21.6		ug/L	108%	80 - 136	11D7077	04/29/11 14:13
1,1,1,2-Tetrachloroethane	20.0	22.8		ug/L	114%	80 - 130	11D7077	04/29/11 14:13
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L	103%	73 - 131	11D7077	04/29/11 14:13
Tetrachloroethene	20.0	21.7		ug/L	108%	77 - 131	11D7077	04/29/11 14:13
Toluene	20.0	22.3		ug/L	112%	78 - 125	11D7077	04/29/11 14:13

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D7077-BS1								
1,2,3-Trichlorobenzene	20.0	19.3		ug/L	97%	71 - 138	11D7077	04/29/11 14:13
1,2,4-Trichlorobenzene	20.0	20.6		ug/L	103%	74 - 136	11D7077	04/29/11 14:13
1,1,2-Trichloroethane	20.0	21.4		ug/L	107%	80 - 123	11D7077	04/29/11 14:13
1,1,1-Trichloroethane	20.0	21.0		ug/L	105%	75 - 137	11D7077	04/29/11 14:13
Trichloroethene	20.0	21.2		ug/L	106%	74 - 139	11D7077	04/29/11 14:13
Trichlorofluoromethane	20.0	18.8		ug/L	94%	60 - 133	11D7077	04/29/11 14:13
1,2,3-Trichloropropane	20.0	19.4		ug/L	97%	64 - 127	11D7077	04/29/11 14:13
1,3,5-Trimethylbenzene	20.0	25.2		ug/L	126%	75 - 134	11D7077	04/29/11 14:13
1,2,4-Trimethylbenzene	20.0	21.9		ug/L	109%	77 - 134	11D7077	04/29/11 14:13
Vinyl chloride	20.0	18.4		ug/L	92%	60 - 122	11D7077	04/29/11 14:13
Xylenes, total	60.0	70.2		ug/L	117%	78 - 134	11D7077	04/29/11 14:13
Surrogate: 1,2-Dichloroethane-d4	30.0	27.9			93%	63 - 140	11D7077	04/29/11 14:13
Surrogate: Dibromofluoromethane	30.0	29.2			97%	73 - 131	11D7077	04/29/11 14:13
Surrogate: Toluene-d8	30.0	31.1			104%	80 - 120	11D7077	04/29/11 14:13
Surrogate: 4-Bromofluorobenzene	30.0	31.5			105%	79 - 125	11D7077	04/29/11 14:13
11E0023-BS1								
Acetone	100	90.7		ug/L	91%	56 - 150	11E0023	04/30/11 17:45
Benzene	20.0	21.6		ug/L	108%	80 - 121	11E0023	04/30/11 17:45
Bromobenzene	20.0	21.8		ug/L	109%	72 - 130	11E0023	04/30/11 17:45
Bromochloromethane	20.0	20.9		ug/L	105%	73 - 137	11E0023	04/30/11 17:45
Bromodichloromethane	20.0	18.4		ug/L	92%	75 - 131	11E0023	04/30/11 17:45
Bromoform	20.0	16.3		ug/L	82%	65 - 140	11E0023	04/30/11 17:45
Bromomethane	20.0	21.9		ug/L	110%	50 - 150	11E0023	04/30/11 17:45
2-Butanone	100	97.3		ug/L	97%	70 - 144	11E0023	04/30/11 17:45
sec-Butylbenzene	20.0	25.4		ug/L	127%	72 - 140	11E0023	04/30/11 17:45
n-Butylbenzene	20.0	21.8		ug/L	109%	68 - 140	11E0023	04/30/11 17:45
tert-Butylbenzene	20.0	22.3		ug/L	112%	76 - 135	11E0023	04/30/11 17:45
Carbon disulfide	20.0	17.1		ug/L	86%	74 - 137	11E0023	04/30/11 17:45
Carbon Tetrachloride	20.0	16.6		ug/L	83%	71 - 137	11E0023	04/30/11 17:45
Chlorobenzene	20.0	20.8		ug/L	104%	80 - 121	11E0023	04/30/11 17:45
Chlorodibromomethane	20.0	18.1		ug/L	91%	68 - 137	11E0023	04/30/11 17:45
Chloroethane	20.0	16.2		ug/L	81%	50 - 146	11E0023	04/30/11 17:45
Chloroform	20.0	20.5		ug/L	102%	73 - 131	11E0023	04/30/11 17:45
Chloromethane	20.0	18.0		ug/L	90%	30 - 132	11E0023	04/30/11 17:45
2-Chlorotoluene	20.0	23.1		ug/L	115%	74 - 135	11E0023	04/30/11 17:45
4-Chlorotoluene	20.0	23.5		ug/L	117%	74 - 132	11E0023	04/30/11 17:45
1,2-Dibromo-3-chloropropane	20.0	17.1		ug/L	85%	56 - 145	11E0023	04/30/11 17:45
1,2-Dibromoethane (EDB)	20.0	22.0		ug/L	110%	80 - 135	11E0023	04/30/11 17:45
Dibromomethane	20.0	20.1		ug/L	101%	78 - 133	11E0023	04/30/11 17:45
1,4-Dichlorobenzene	20.0	20.7		ug/L	103%	80 - 120	11E0023	04/30/11 17:45

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11E0023-BS1								
1,3-Dichlorobenzene	20.0	21.8		ug/L	109%	80 - 128	11E0023	04/30/11 17:45
1,2-Dichlorobenzene	20.0	21.8		ug/L	109%	80 - 125	11E0023	04/30/11 17:45
Dichlorodifluoromethane	20.0	17.5		ug/L	87%	30 - 132	11E0023	04/30/11 17:45
1,1-Dichloroethane	20.0	21.2		ug/L	106%	75 - 125	11E0023	04/30/11 17:45
1,2-Dichloroethane	20.0	19.2		ug/L	96%	70 - 134	11E0023	04/30/11 17:45
cis-1,2-Dichloroethene	20.0	21.2		ug/L	106%	71 - 132	11E0023	04/30/11 17:45
1,1-Dichloroethene	20.0	19.2		ug/L	96%	73 - 125	11E0023	04/30/11 17:45
trans-1,2-Dichloroethene	20.0	19.0		ug/L	95%	77 - 125	11E0023	04/30/11 17:45
1,3-Dichloropropane	20.0	21.5		ug/L	108%	76 - 125	11E0023	04/30/11 17:45
1,2-Dichloropropane	20.0	21.4		ug/L	107%	72 - 120	11E0023	04/30/11 17:45
2,2-Dichloropropane	20.0	22.5		ug/L	112%	50 - 150	11E0023	04/30/11 17:45
cis-1,3-Dichloropropene	20.0	21.5		ug/L	108%	70 - 140	11E0023	04/30/11 17:45
trans-1,3-Dichloropropene	20.0	19.4		ug/L	97%	62 - 139	11E0023	04/30/11 17:45
1,1-Dichloropropene	20.0	21.4		ug/L	107%	78 - 126	11E0023	04/30/11 17:45
Ethylbenzene	20.0	22.9		ug/L	114%	78 - 133	11E0023	04/30/11 17:45
Hexachlorobutadiene	20.0	20.0		ug/L	100%	70 - 150	11E0023	04/30/11 17:45
2-Hexanone	100	95.4		ug/L	95%	60 - 150	11E0023	04/30/11 17:45
Isopropylbenzene	20.0	23.5		ug/L	117%	69 - 120	11E0023	04/30/11 17:45
p-Isopropyltoluene	20.0	22.2		ug/L	111%	72 - 134	11E0023	04/30/11 17:45
Methyl tert-Butyl Ether	20.0	21.4		ug/L	107%	76 - 120	11E0023	04/30/11 17:45
Methylene Chloride	20.0	18.3		ug/L	91%	80 - 133	11E0023	04/30/11 17:45
4-Methyl-2-pentanone	100	101		ug/L	101%	62 - 146	11E0023	04/30/11 17:45
Naphthalene	20.0	19.1		ug/L	96%	71 - 139	11E0023	04/30/11 17:45
n-Propylbenzene	20.0	24.2		ug/L	121%	70 - 143	11E0023	04/30/11 17:45
Styrene	20.0	21.1		ug/L	106%	80 - 136	11E0023	04/30/11 17:45
1,1,1,2-Tetrachloroethane	20.0	20.8		ug/L	104%	80 - 130	11E0023	04/30/11 17:45
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L	102%	73 - 131	11E0023	04/30/11 17:45
Tetrachloroethene	20.0	21.6		ug/L	108%	77 - 131	11E0023	04/30/11 17:45
Toluene	20.0	21.8		ug/L	109%	78 - 125	11E0023	04/30/11 17:45
1,2,3-Trichlorobenzene	20.0	18.8		ug/L	94%	71 - 138	11E0023	04/30/11 17:45
1,2,4-Trichlorobenzene	20.0	19.5		ug/L	97%	74 - 136	11E0023	04/30/11 17:45
1,1,2-Trichloroethane	20.0	21.6		ug/L	108%	80 - 123	11E0023	04/30/11 17:45
1,1,1-Trichloroethane	20.0	19.8		ug/L	99%	75 - 137	11E0023	04/30/11 17:45
Trichloroethene	20.0	20.6		ug/L	103%	74 - 139	11E0023	04/30/11 17:45
Trichlorofluoromethane	20.0	16.5		ug/L	83%	60 - 133	11E0023	04/30/11 17:45
1,2,3-Trichloropropane	20.0	20.7		ug/L	103%	64 - 127	11E0023	04/30/11 17:45
1,3,5-Trimethylbenzene	20.0	24.8		ug/L	124%	75 - 134	11E0023	04/30/11 17:45
1,2,4-Trimethylbenzene	20.0	21.4		ug/L	107%	77 - 134	11E0023	04/30/11 17:45
Vinyl chloride	20.0	16.2		ug/L	81%	60 - 122	11E0023	04/30/11 17:45
Xylenes, total	60.0	68.4		ug/L	114%	78 - 134	11E0023	04/30/11 17:45
Surrogate: 1,2-Dichloroethane-d4	30.0	27.5			92%	63 - 140	11E0023	04/30/11 17:45

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11E0023-BS1								
Surrogate: Dibromofluoromethane	30.0	29.0			97%	73 - 131	11E0023	04/30/11 17:45
Surrogate: Toluene-d8	30.0	31.0			103%	80 - 120	11E0023	04/30/11 17:45
Surrogate: 4-Bromofluorobenzene	30.0	31.9			106%	79 - 125	11E0023	04/30/11 17:45

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D6096-MS1										
Acetone	ND	204		ug/L	250	81%	56 - 150	11D6096	NUD4501-08	04/30/11 12:25
Benzene	ND	52.7		ug/L	50.0	105%	65 - 151	11D6096	NUD4501-08	04/30/11 12:25
Bromobenzene	ND	53.9		ug/L	50.0	108%	69 - 142	11D6096	NUD4501-08	04/30/11 12:25
Bromochloromethane	ND	50.0		ug/L	50.0	100%	64 - 154	11D6096	NUD4501-08	04/30/11 12:25
Bromodichloromethane	ND	48.8		ug/L	50.0	98%	75 - 138	11D6096	NUD4501-08	04/30/11 12:25
Bromoform	ND	44.4		ug/L	50.0	89%	55 - 153	11D6096	NUD4501-08	04/30/11 12:25
Bromomethane	ND	67.9		ug/L	50.0	136%	13 - 176	11D6096	NUD4501-08	04/30/11 12:25
2-Butanone	ND	219		ug/L	250	87%	45 - 164	11D6096	NUD4501-08	04/30/11 12:25
sec-Butylbenzene	ND	61.2		ug/L	50.0	122%	68 - 159	11D6096	NUD4501-08	04/30/11 12:25
n-Butylbenzene	ND	52.9		ug/L	50.0	106%	67 - 151	11D6096	NUD4501-08	04/30/11 12:25
tert-Butylbenzene	ND	55.0		ug/L	50.0	110%	73 - 153	11D6096	NUD4501-08	04/30/11 12:25
Carbon disulfide	ND	47.0		ug/L	50.0	94%	33 - 187	11D6096	NUD4501-08	04/30/11 12:25
Carbon Tetrachloride	ND	43.4		ug/L	50.0	87%	64 - 157	11D6096	NUD4501-08	04/30/11 12:25
Chlorobenzene	ND	52.3		ug/L	50.0	105%	78 - 136	11D6096	NUD4501-08	04/30/11 12:25
Chlorodibromomethane	ND	48.2		ug/L	50.0	96%	64 - 145	11D6096	NUD4501-08	04/30/11 12:25
Chloroethane	ND	43.5		ug/L	50.0	87%	48 - 159	11D6096	NUD4501-08	04/30/11 12:25
Chloroform	ND	51.3		ug/L	50.0	103%	72 - 145	11D6096	NUD4501-08	04/30/11 12:25
Chloromethane	ND	36.3		ug/L	50.0	73%	10 - 194	11D6096	NUD4501-08	04/30/11 12:25
2-Chlorotoluene	ND	56.0		ug/L	50.0	112%	66 - 155	11D6096	NUD4501-08	04/30/11 12:25
4-Chlorotoluene	ND	56.9		ug/L	50.0	114%	69 - 149	11D6096	NUD4501-08	04/30/11 12:25
1,2-Dibromo-3-chloropropane	ND	40.8		ug/L	50.0	82%	49 - 162	11D6096	NUD4501-08	04/30/11 12:25
1,2-Dibromoethane (EDB)	ND	55.2		ug/L	50.0	110%	70 - 152	11D6096	NUD4501-08	04/30/11 12:25
Dibromomethane	ND	52.8		ug/L	50.0	106%	75 - 141	11D6096	NUD4501-08	04/30/11 12:25
1,4-Dichlorobenzene	ND	50.2		ug/L	50.0	100%	75 - 135	11D6096	NUD4501-08	04/30/11 12:25
1,3-Dichlorobenzene	ND	52.0		ug/L	50.0	104%	72 - 146	11D6096	NUD4501-08	04/30/11 12:25
1,2-Dichlorobenzene	ND	52.3		ug/L	50.0	105%	80 - 136	11D6096	NUD4501-08	04/30/11 12:25
Dichlorodifluoromethane	ND	25.9		ug/L	50.0	52%	23 - 159	11D6096	NUD4501-08	04/30/11 12:25
1,1-Dichloroethane	ND	52.9		ug/L	50.0	106%	64 - 154	11D6096	NUD4501-08	04/30/11 12:25
1,2-Dichloroethane	1.32	46.2		ug/L	50.0	90%	72 - 137	11D6096	NUD4501-08	04/30/11 12:25
cis-1,2-Dichloroethene	0.580	52.4		ug/L	50.0	104%	57 - 154	11D6096	NUD4501-08	04/30/11 12:25
1,1-Dichloroethene	ND	50.6		ug/L	50.0	101%	34 - 151	11D6096	NUD4501-08	04/30/11 12:25
trans-1,2-Dichloroethene	ND	51.6		ug/L	50.0	103%	57 - 157	11D6096	NUD4501-08	04/30/11 12:25
1,3-Dichloropropane	ND	54.1		ug/L	50.0	108%	71 - 137	11D6096	NUD4501-08	04/30/11 12:25
1,2-Dichloropropane	ND	51.9		ug/L	50.0	104%	71 - 139	11D6096	NUD4501-08	04/30/11 12:25
2,2-Dichloropropane	ND	44.4		ug/L	50.0	89%	10 - 198	11D6096	NUD4501-08	04/30/11 12:25
cis-1,3-Dichloropropene	2.97	52.4		ug/L	50.0	99%	56 - 156	11D6096	NUD4501-08	04/30/11 12:25
trans-1,3-Dichloropropene	ND	47.8		ug/L	50.0	96%	47 - 157	11D6096	NUD4501-08	04/30/11 12:25

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D6096-MS1										
1,1-Dichloropropene	ND	53.3		ug/L	50.0	107%	70 - 155	11D6096	NUD4501-08	04/30/11 12:25
Ethylbenzene	ND	58.2		ug/L	50.0	116%	68 - 157	11D6096	NUD4501-08	04/30/11 12:25
Hexachlorobutadiene	ND	50.9		ug/L	50.0	102%	47 - 173	11D6096	NUD4501-08	04/30/11 12:25
2-Hexanone	ND	224		ug/L	250	90%	57 - 154	11D6096	NUD4501-08	04/30/11 12:25
Isopropylbenzene	ND	59.9		ug/L	50.0	120%	69 - 139	11D6096	NUD4501-08	04/30/11 12:25
p-Isopropyltoluene	ND	55.5		ug/L	50.0	111%	69 - 151	11D6096	NUD4501-08	04/30/11 12:25
Methyl tert-Butyl Ether	ND	52.3		ug/L	50.0	105%	56 - 152	11D6096	NUD4501-08	04/30/11 12:25
Methylene Chloride	ND	46.1		ug/L	50.0	92%	71 - 136	11D6096	NUD4501-08	04/30/11 12:25
4-Methyl-2-pentanone	2.68	252		ug/L	250	100%	62 - 159	11D6096	NUD4501-08	04/30/11 12:25
Naphthalene	2.10	43.6		ug/L	50.0	83%	56 - 161	11D6096	NUD4501-08	04/30/11 12:25
n-Propylbenzene	ND	58.7		ug/L	50.0	117%	61 - 167	11D6096	NUD4501-08	04/30/11 12:25
Styrene	ND	51.9		ug/L	50.0	104%	69 - 150	11D6096	NUD4501-08	04/30/11 12:25
1,1,1,2-Tetrachloroethane	ND	56.2		ug/L	50.0	112%	80 - 140	11D6096	NUD4501-08	04/30/11 12:25
1,1,2,2-Tetrachloroethane	ND	49.2		ug/L	50.0	98%	76 - 141	11D6096	NUD4501-08	04/30/11 12:25
Tetrachloroethene	0.260	53.9		ug/L	50.0	107%	63 - 155	11D6096	NUD4501-08	04/30/11 12:25
Toluene	ND	54.8		ug/L	50.0	110%	61 - 153	11D6096	NUD4501-08	04/30/11 12:25
1,2,3-Trichlorobenzene	ND	43.9		ug/L	50.0	88%	57 - 155	11D6096	NUD4501-08	04/30/11 12:25
1,2,4-Trichlorobenzene	ND	45.6		ug/L	50.0	91%	64 - 147	11D6096	NUD4501-08	04/30/11 12:25
1,1,2-Trichloroethane	ND	52.4		ug/L	50.0	105%	74 - 138	11D6096	NUD4501-08	04/30/11 12:25
1,1,1-Trichloroethane	ND	51.2		ug/L	50.0	102%	78 - 153	11D6096	NUD4501-08	04/30/11 12:25
Trichloroethene	2.83	57.1		ug/L	50.0	109%	74 - 139	11D6096	NUD4501-08	04/30/11 12:25
Trichlorofluoromethane	ND	41.4		ug/L	50.0	83%	53 - 149	11D6096	NUD4501-08	04/30/11 12:25
1,2,3-Trichloropropane	ND	46.9		ug/L	50.0	94%	49 - 148	11D6096	NUD4501-08	04/30/11 12:25
1,3,5-Trimethylbenzene	ND	59.5		ug/L	50.0	119%	67 - 151	11D6096	NUD4501-08	04/30/11 12:25
1,2,4-Trimethylbenzene	ND	52.0		ug/L	50.0	104%	69 - 150	11D6096	NUD4501-08	04/30/11 12:25
Vinyl chloride	ND	40.3		ug/L	50.0	81%	53 - 137	11D6096	NUD4501-08	04/30/11 12:25
Xylenes, total	ND	171		ug/L	150	114%	68 - 158	11D6096	NUD4501-08	04/30/11 12:25
Surrogate: 1,2-Dichloroethane-d4		26.1		ug/L	30.0	87%	63 - 140	11D6096	NUD4501-08	04/30/11 12:25
Surrogate: Dibromofluoromethane		27.6		ug/L	30.0	92%	73 - 131	11D6096	NUD4501-08	04/30/11 12:25
Surrogate: Toluene-d8		31.1		ug/L	30.0	104%	80 - 120	11D6096	NUD4501-08	04/30/11 12:25
Surrogate: 4-Bromofluorobenzene		31.3		ug/L	30.0	104%	79 - 125	11D6096	NUD4501-08	04/30/11 12:25
11D7077-MS1										
Acetone	ND	179		ug/L	250	72%	56 - 150	11D7077	NUD3685-09	04/30/11 11:29
Benzene	ND	49.8		ug/L	50.0	100%	65 - 151	11D7077	NUD3685-09	04/30/11 11:29
Bromobenzene	ND	54.5		ug/L	50.0	109%	69 - 142	11D7077	NUD3685-09	04/30/11 11:29
Bromochloromethane	ND	47.2		ug/L	50.0	94%	64 - 154	11D7077	NUD3685-09	04/30/11 11:29
Bromodichloromethane	ND	47.9		ug/L	50.0	96%	75 - 138	11D7077	NUD3685-09	04/30/11 11:29

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D7077-MS1										
Bromoform	ND	41.8		ug/L	50.0	84%	55 - 153	11D7077	NUD3685-09	04/30/11 11:29
Bromomethane	ND	50.5		ug/L	50.0	101%	13 - 176	11D7077	NUD3685-09	04/30/11 11:29
2-Butanone	ND	199		ug/L	250	80%	45 - 164	11D7077	NUD3685-09	04/30/11 11:29
sec-Butylbenzene	ND	63.7		ug/L	50.0	127%	68 - 159	11D7077	NUD3685-09	04/30/11 11:29
n-Butylbenzene	ND	56.8		ug/L	50.0	114%	67 - 151	11D7077	NUD3685-09	04/30/11 11:29
tert-Butylbenzene	ND	56.9		ug/L	50.0	114%	73 - 153	11D7077	NUD3685-09	04/30/11 11:29
Carbon disulfide	ND	30.8		ug/L	50.0	62%	33 - 187	11D7077	NUD3685-09	04/30/11 11:29
Carbon Tetrachloride	ND	46.0		ug/L	50.0	92%	64 - 157	11D7077	NUD3685-09	04/30/11 11:29
Chlorobenzene	ND	50.8		ug/L	50.0	102%	78 - 136	11D7077	NUD3685-09	04/30/11 11:29
Chlorodibromomethane	ND	46.4		ug/L	50.0	93%	64 - 145	11D7077	NUD3685-09	04/30/11 11:29
Chloroethane	ND	36.2		ug/L	50.0	72%	48 - 159	11D7077	NUD3685-09	04/30/11 11:29
Chloroform	ND	49.2		ug/L	50.0	98%	72 - 145	11D7077	NUD3685-09	04/30/11 11:29
Chloromethane	ND	28.2		ug/L	50.0	56%	10 - 194	11D7077	NUD3685-09	04/30/11 11:29
2-Chlorotoluene	ND	57.6		ug/L	50.0	115%	66 - 155	11D7077	NUD3685-09	04/30/11 11:29
4-Chlorotoluene	ND	59.7		ug/L	50.0	119%	69 - 149	11D7077	NUD3685-09	04/30/11 11:29
1,2-Dibromo-3-chloropropane	ND	38.8		ug/L	50.0	78%	49 - 162	11D7077	NUD3685-09	04/30/11 11:29
1,2-Dibromoethane (EDB)	ND	50.7		ug/L	50.0	101%	70 - 152	11D7077	NUD3685-09	04/30/11 11:29
Dibromomethane	ND	48.6		ug/L	50.0	97%	75 - 141	11D7077	NUD3685-09	04/30/11 11:29
1,4-Dichlorobenzene	ND	51.7		ug/L	50.0	103%	75 - 135	11D7077	NUD3685-09	04/30/11 11:29
1,3-Dichlorobenzene	ND	53.9		ug/L	50.0	108%	72 - 146	11D7077	NUD3685-09	04/30/11 11:29
1,2-Dichlorobenzene	ND	53.3		ug/L	50.0	107%	80 - 136	11D7077	NUD3685-09	04/30/11 11:29
Dichlorodifluoromethane	ND	21.9		ug/L	50.0	44%	23 - 159	11D7077	NUD3685-09	04/30/11 11:29
1,1-Dichloroethane	ND	48.3		ug/L	50.0	97%	64 - 154	11D7077	NUD3685-09	04/30/11 11:29
1,2-Dichloroethane	ND	46.4		ug/L	50.0	93%	72 - 137	11D7077	NUD3685-09	04/30/11 11:29
cis-1,2-Dichloroethene	ND	50.3		ug/L	50.0	101%	57 - 154	11D7077	NUD3685-09	04/30/11 11:29
1,1-Dichloroethene	ND	43.0		ug/L	50.0	86%	34 - 151	11D7077	NUD3685-09	04/30/11 11:29
trans-1,2-Dichloroethene	ND	44.8		ug/L	50.0	90%	57 - 157	11D7077	NUD3685-09	04/30/11 11:29
1,3-Dichloropropane	ND	50.6		ug/L	50.0	101%	71 - 137	11D7077	NUD3685-09	04/30/11 11:29
1,2-Dichloropropane	ND	49.0		ug/L	50.0	98%	71 - 139	11D7077	NUD3685-09	04/30/11 11:29
2,2-Dichloropropane	ND	53.2		ug/L	50.0	106%	10 - 198	11D7077	NUD3685-09	04/30/11 11:29
cis-1,3-Dichloropropene	ND	51.5		ug/L	50.0	103%	56 - 156	11D7077	NUD3685-09	04/30/11 11:29
trans-1,3-Dichloropropene	ND	47.1		ug/L	50.0	94%	47 - 157	11D7077	NUD3685-09	04/30/11 11:29
1,1-Dichloropropene	ND	49.1		ug/L	50.0	98%	70 - 155	11D7077	NUD3685-09	04/30/11 11:29
Ethylbenzene	ND	56.4		ug/L	50.0	113%	68 - 157	11D7077	NUD3685-09	04/30/11 11:29
Hexachlorobutadiene	ND	51.4		ug/L	50.0	103%	47 - 173	11D7077	NUD3685-09	04/30/11 11:29
2-Hexanone	ND	200		ug/L	250	80%	57 - 154	11D7077	NUD3685-09	04/30/11 11:29
Isopropylbenzene	ND	58.9		ug/L	50.0	118%	69 - 139	11D7077	NUD3685-09	04/30/11 11:29

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D7077-MS1										
p-Isopropyltoluene	ND	58.6		ug/L	50.0	117%	69 - 151	11D7077	NUD3685-09	04/30/11 11:29
Methyl tert-Butyl Ether	ND	47.8		ug/L	50.0	96%	56 - 152	11D7077	NUD3685-09	04/30/11 11:29
Methylene Chloride	ND	41.9		ug/L	50.0	84%	71 - 136	11D7077	NUD3685-09	04/30/11 11:29
4-Methyl-2-pentanone	ND	231		ug/L	250	93%	62 - 159	11D7077	NUD3685-09	04/30/11 11:29
Naphthalene	ND	41.7		ug/L	50.0	83%	56 - 161	11D7077	NUD3685-09	04/30/11 11:29
n-Propylbenzene	ND	60.7		ug/L	50.0	121%	61 - 167	11D7077	NUD3685-09	04/30/11 11:29
Styrene	ND	52.6		ug/L	50.0	105%	69 - 150	11D7077	NUD3685-09	04/30/11 11:29
1,1,1,2-Tetrachloroethane	ND	56.2		ug/L	50.0	112%	80 - 140	11D7077	NUD3685-09	04/30/11 11:29
1,1,2,2-Tetrachloroethane	ND	48.3		ug/L	50.0	97%	76 - 141	11D7077	NUD3685-09	04/30/11 11:29
Tetrachloroethene	ND	50.5		ug/L	50.0	101%	63 - 155	11D7077	NUD3685-09	04/30/11 11:29
Toluene	ND	51.6		ug/L	50.0	103%	61 - 153	11D7077	NUD3685-09	04/30/11 11:29
1,2,3-Trichlorobenzene	ND	43.3		ug/L	50.0	87%	57 - 155	11D7077	NUD3685-09	04/30/11 11:29
1,2,4-Trichlorobenzene	ND	45.7		ug/L	50.0	91%	64 - 147	11D7077	NUD3685-09	04/30/11 11:29
1,1,2-Trichloroethane	ND	50.2		ug/L	50.0	100%	74 - 138	11D7077	NUD3685-09	04/30/11 11:29
1,1,1-Trichloroethane	ND	48.9		ug/L	50.0	98%	78 - 153	11D7077	NUD3685-09	04/30/11 11:29
Trichloroethene	ND	52.5		ug/L	50.0	105%	74 - 139	11D7077	NUD3685-09	04/30/11 11:29
Trichlorofluoromethane	ND	36.6		ug/L	50.0	73%	53 - 149	11D7077	NUD3685-09	04/30/11 11:29
1,2,3-Trichloropropane	ND	44.8		ug/L	50.0	90%	49 - 148	11D7077	NUD3685-09	04/30/11 11:29
1,3,5-Trimethylbenzene	ND	62.0		ug/L	50.0	124%	67 - 151	11D7077	NUD3685-09	04/30/11 11:29
1,2,4-Trimethylbenzene	ND	54.3		ug/L	50.0	109%	69 - 150	11D7077	NUD3685-09	04/30/11 11:29
Vinyl chloride	ND	31.1		ug/L	50.0	62%	53 - 137	11D7077	NUD3685-09	04/30/11 11:29
Xylenes, total	ND	167		ug/L	150	111%	68 - 158	11D7077	NUD3685-09	04/30/11 11:29
Surrogate: 1,2-Dichloroethane-d4		27.9		ug/L	30.0	93%	63 - 140	11D7077	NUD3685-09	04/30/11 11:29
Surrogate: Dibromofluoromethane		27.4		ug/L	30.0	91%	73 - 131	11D7077	NUD3685-09	04/30/11 11:29
Surrogate: Toluene-d8		31.0		ug/L	30.0	103%	80 - 120	11D7077	NUD3685-09	04/30/11 11:29
Surrogate: 4-Bromofluorobenzene		32.1		ug/L	30.0	107%	79 - 125	11D7077	NUD3685-09	04/30/11 11:29
11E0023-MS1										
Acetone	ND	1600		ug/L	2500	64%	56 - 150	11E0023	NUD3685-13R E1	05/01/11 05:48
Benzene	ND	414		ug/L	500	83%	65 - 151	11E0023	NUD3685-13R E1	05/01/11 05:48
Bromobenzene	ND	464		ug/L	500	93%	69 - 142	11E0023	NUD3685-13R E1	05/01/11 05:48
Bromochloromethane	ND	385		ug/L	500	77%	64 - 154	11E0023	NUD3685-13R E1	05/01/11 05:48
Bromodichloromethane	ND	422		ug/L	500	84%	75 - 138	11E0023	NUD3685-13R E1	05/01/11 05:48
Bromoform	ND	398		ug/L	500	80%	55 - 153	11E0023	NUD3685-13R E1	05/01/11 05:48

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11E0023-MS1										
Bromomethane	ND	400		ug/L	500	80%	13 - 176	11E0023	NUD3685-13R E1	05/01/11 05:48
2-Butanone	ND	1770		ug/L	2500	71%	45 - 164	11E0023	NUD3685-13R E1	05/01/11 05:48
sec-Butylbenzene	ND	546		ug/L	500	109%	68 - 159	11E0023	NUD3685-13R E1	05/01/11 05:48
n-Butylbenzene	ND	470		ug/L	500	94%	67 - 151	11E0023	NUD3685-13R E1	05/01/11 05:48
tert-Butylbenzene	ND	488		ug/L	500	98%	73 - 153	11E0023	NUD3685-13R E1	05/01/11 05:48
Carbon disulfide	ND	202		ug/L	500	40%	33 - 187	11E0023	NUD3685-13R E1	05/01/11 05:48
Carbon Tetrachloride	ND	394		ug/L	500	79%	64 - 157	11E0023	NUD3685-13R E1	05/01/11 05:48
Chlorobenzene	ND	439		ug/L	500	88%	78 - 136	11E0023	NUD3685-13R E1	05/01/11 05:48
Chlorodibromomethane	ND	427		ug/L	500	85%	64 - 145	11E0023	NUD3685-13R E1	05/01/11 05:48
Chloroethane	ND	270		ug/L	500	54%	48 - 159	11E0023	NUD3685-13R E1	05/01/11 05:48
Chloroform	ND	411		ug/L	500	82%	72 - 145	11E0023	NUD3685-13R E1	05/01/11 05:48
Chloromethane	ND	231		ug/L	500	46%	10 - 194	11E0023	NUD3685-13R E1	05/01/11 05:48
2-Chlorotoluene	ND	483		ug/L	500	97%	66 - 155	11E0023	NUD3685-13R E1	05/01/11 05:48
4-Chlorotoluene	ND	496		ug/L	500	99%	69 - 149	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2-Dibromo-3-chloropropane	ND	364		ug/L	500	73%	49 - 162	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2-Dibromoethane (EDB)	ND	462		ug/L	500	92%	70 - 152	11E0023	NUD3685-13R E1	05/01/11 05:48
Dibromomethane	ND	430		ug/L	500	86%	75 - 141	11E0023	NUD3685-13R E1	05/01/11 05:48
1,4-Dichlorobenzene	ND	443		ug/L	500	89%	75 - 135	11E0023	NUD3685-13R E1	05/01/11 05:48
1,3-Dichlorobenzene	ND	450		ug/L	500	90%	72 - 146	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2-Dichlorobenzene	ND	460		ug/L	500	92%	80 - 136	11E0023	NUD3685-13R E1	05/01/11 05:48
Dichlorodifluoromethane	ND	176		ug/L	500	35%	23 - 159	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1-Dichloroethane	ND	383		ug/L	500	77%	64 - 154	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2-Dichloroethane	ND	398		ug/L	500	80%	72 - 137	11E0023	NUD3685-13R E1	05/01/11 05:48
cis-1,2-Dichloroethene	ND	391		ug/L	500	78%	57 - 154	11E0023	NUD3685-13R E1	05/01/11 05:48

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11E0023-MS1										
1,1-Dichloroethene	ND	332		ug/L	500	66%	34 - 151	11E0023	NUD3685-13R E1	05/01/11 05:48
trans-1,2-Dichloroethene	ND	322		ug/L	500	64%	57 - 157	11E0023	NUD3685-13R E1	05/01/11 05:48
1,3-Dichloropropane	ND	447		ug/L	500	89%	71 - 137	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2-Dichloropropane	ND	429		ug/L	500	86%	71 - 139	11E0023	NUD3685-13R E1	05/01/11 05:48
2,2-Dichloropropane	ND	399		ug/L	500	80%	10 - 198	11E0023	NUD3685-13R E1	05/01/11 05:48
cis-1,3-Dichloropropene	ND	453		ug/L	500	91%	56 - 156	11E0023	NUD3685-13R E1	05/01/11 05:48
trans-1,3-Dichloropropene	ND	418		ug/L	500	84%	47 - 157	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1-Dichloropropene	ND	395		ug/L	500	79%	70 - 155	11E0023	NUD3685-13R E1	05/01/11 05:48
Ethylbenzene	ND	478		ug/L	500	96%	68 - 157	11E0023	NUD3685-13R E1	05/01/11 05:48
Hexachlorobutadiene	ND	472		ug/L	500	94%	47 - 173	11E0023	NUD3685-13R E1	05/01/11 05:48
2-Hexanone	ND	1910		ug/L	2500	76%	57 - 154	11E0023	NUD3685-13R E1	05/01/11 05:48
Isopropylbenzene	ND	516		ug/L	500	103%	69 - 139	11E0023	NUD3685-13R E1	05/01/11 05:48
p-Isopropyltoluene	ND	491		ug/L	500	98%	69 - 151	11E0023	NUD3685-13R E1	05/01/11 05:48
Methyl tert-Butyl Ether	485	831		ug/L	500	69%	56 - 152	11E0023	NUD3685-13R E1	05/01/11 05:48
Methylene Chloride	8.10	338	M8	ug/L	500	66%	71 - 136	11E0023	NUD3685-13R E1	05/01/11 05:48
4-Methyl-2-pentanone	ND	2170		ug/L	2500	87%	62 - 159	11E0023	NUD3685-13R E1	05/01/11 05:48
Naphthalene	ND	386		ug/L	500	77%	56 - 161	11E0023	NUD3685-13R E1	05/01/11 05:48
n-Propylbenzene	ND	504		ug/L	500	101%	61 - 167	11E0023	NUD3685-13R E1	05/01/11 05:48
Styrene	ND	449		ug/L	500	90%	69 - 150	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1,1,2-Tetrachloroethane	ND	502		ug/L	500	100%	80 - 140	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1,2,2-Tetrachloroethane	ND	444		ug/L	500	89%	76 - 141	11E0023	NUD3685-13R E1	05/01/11 05:48
Tetrachloroethene	ND	422		ug/L	500	84%	63 - 155	11E0023	NUD3685-13R E1	05/01/11 05:48
Toluene	ND	429		ug/L	500	86%	61 - 153	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2,3-Trichlorobenzene	ND	400		ug/L	500	80%	57 - 155	11E0023	NUD3685-13R E1	05/01/11 05:48

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11E0023-MS1										
1,2,4-Trichlorobenzene	ND	421		ug/L	500	84%	64 - 147	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1,2-Trichloroethane	ND	462		ug/L	500	92%	74 - 138	11E0023	NUD3685-13R E1	05/01/11 05:48
1,1,1-Trichloroethane	ND	422		ug/L	500	84%	78 - 153	11E0023	NUD3685-13R E1	05/01/11 05:48
Trichloroethene	ND	434		ug/L	500	87%	74 - 139	11E0023	NUD3685-13R E1	05/01/11 05:48
Trichlorofluoromethane	ND	290		ug/L	500	58%	53 - 149	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2,3-Trichloropropane	ND	415		ug/L	500	83%	49 - 148	11E0023	NUD3685-13R E1	05/01/11 05:48
1,3,5-Trimethylbenzene	ND	523		ug/L	500	105%	67 - 151	11E0023	NUD3685-13R E1	05/01/11 05:48
1,2,4-Trimethylbenzene	ND	457		ug/L	500	91%	69 - 150	11E0023	NUD3685-13R E1	05/01/11 05:48
Vinyl chloride	ND	244	M8	ug/L	500	49%	53 - 137	11E0023	NUD3685-13R E1	05/01/11 05:48
Xylenes, total	ND	1410		ug/L	1500	94%	68 - 158	11E0023	NUD3685-13R E1	05/01/11 05:48
Surrogate: 1,2-Dichloroethane-d4		27.1		ug/L	30.0	90%	63 - 140	11E0023	NUD3685-13R E1	05/01/11 05:48
Surrogate: Dibromofluoromethane		27.1		ug/L	30.0	90%	73 - 131	11E0023	NUD3685-13R E1	05/01/11 05:48
Surrogate: Toluene-d8		30.8		ug/L	30.0	103%	80 - 120	11E0023	NUD3685-13R E1	05/01/11 05:48
Surrogate: 4-Bromofluorobenzene		31.0		ug/L	30.0	103%	79 - 125	11E0023	NUD3685-13R E1	05/01/11 05:48

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11D6096-MSD1												
Acetone	ND	198		ug/L	250	79%	56 - 150	3	31	11D6096	NUD4501-08	04/30/11 12:52
Benzene	ND	52.5		ug/L	50.0	105%	65 - 151	0.2	12	11D6096	NUD4501-08	04/30/11 12:52
Bromobenzene	ND	52.9		ug/L	50.0	106%	69 - 142	2	23	11D6096	NUD4501-08	04/30/11 12:52
Bromochloromethane	ND	47.4		ug/L	50.0	95%	64 - 154	5	32	11D6096	NUD4501-08	04/30/11 12:52
Bromodichloromethane	ND	46.8		ug/L	50.0	94%	75 - 138	4	13	11D6096	NUD4501-08	04/30/11 12:52
Bromoform	ND	43.1		ug/L	50.0	86%	55 - 153	3	18	11D6096	NUD4501-08	04/30/11 12:52
Bromomethane	ND	65.0		ug/L	50.0	130%	13 - 176	4	50	11D6096	NUD4501-08	04/30/11 12:52
2-Butanone	ND	203		ug/L	250	81%	45 - 164	7	37	11D6096	NUD4501-08	04/30/11 12:52
sec-Butylbenzene	ND	59.0		ug/L	50.0	118%	68 - 159	4	21	11D6096	NUD4501-08	04/30/11 12:52
n-Butylbenzene	ND	51.6		ug/L	50.0	103%	67 - 151	3	11	11D6096	NUD4501-08	04/30/11 12:52
tert-Butylbenzene	ND	52.9		ug/L	50.0	106%	73 - 153	4	20	11D6096	NUD4501-08	04/30/11 12:52
Carbon disulfide	ND	43.9		ug/L	50.0	88%	33 - 187	7	28	11D6096	NUD4501-08	04/30/11 12:52
Carbon Tetrachloride	ND	48.1		ug/L	50.0	96%	64 - 157	10	26	11D6096	NUD4501-08	04/30/11 12:52
Chlorobenzene	ND	50.9		ug/L	50.0	102%	78 - 136	3	11	11D6096	NUD4501-08	04/30/11 12:52
Chlorodibromomethane	ND	46.9		ug/L	50.0	94%	64 - 145	3	16	11D6096	NUD4501-08	04/30/11 12:52
Chloroethane	ND	41.9		ug/L	50.0	84%	48 - 159	4	35	11D6096	NUD4501-08	04/30/11 12:52
Chloroform	ND	50.2		ug/L	50.0	100%	72 - 145	2	32	11D6096	NUD4501-08	04/30/11 12:52
Chloromethane	ND	35.8		ug/L	50.0	72%	10 - 194	1	34	11D6096	NUD4501-08	04/30/11 12:52
2-Chlorotoluene	ND	54.4		ug/L	50.0	109%	66 - 155	3	22	11D6096	NUD4501-08	04/30/11 12:52
4-Chlorotoluene	ND	55.5		ug/L	50.0	111%	69 - 149	2	22	11D6096	NUD4501-08	04/30/11 12:52
1,2-Dibromo-3-chloropropane	ND	39.8		ug/L	50.0	80%	49 - 162	3	21	11D6096	NUD4501-08	04/30/11 12:52
1,2-Dibromoethane (EDB)	ND	52.9		ug/L	50.0	106%	70 - 152	4	10	11D6096	NUD4501-08	04/30/11 12:52
Dibromomethane	ND	50.8		ug/L	50.0	102%	75 - 141	4	11	11D6096	NUD4501-08	04/30/11 12:52
1,4-Dichlorobenzene	ND	49.1		ug/L	50.0	98%	75 - 135	2	10	11D6096	NUD4501-08	04/30/11 12:52
1,3-Dichlorobenzene	ND	50.5		ug/L	50.0	101%	72 - 146	3	18	11D6096	NUD4501-08	04/30/11 12:52
1,2-Dichlorobenzene	ND	50.5		ug/L	50.0	101%	80 - 136	3	11	11D6096	NUD4501-08	04/30/11 12:52
Dichlorodifluoromethane	ND	25.1		ug/L	50.0	50%	23 - 159	3	32	11D6096	NUD4501-08	04/30/11 12:52
1,1-Dichloroethane	ND	49.4		ug/L	50.0	99%	64 - 154	7	34	11D6096	NUD4501-08	04/30/11 12:52
1,2-Dichloroethane	1.32	46.8		ug/L	50.0	91%	72 - 137	1	25	11D6096	NUD4501-08	04/30/11 12:52
cis-1,2-Dichloroethene	0.580	49.3		ug/L	50.0	97%	57 - 154	6	32	11D6096	NUD4501-08	04/30/11 12:52
1,1-Dichloroethene	ND	47.4		ug/L	50.0	95%	34 - 151	6	31	11D6096	NUD4501-08	04/30/11 12:52
trans-1,2-Dichloroethene	ND	48.0		ug/L	50.0	96%	57 - 157	7	32	11D6096	NUD4501-08	04/30/11 12:52
1,3-Dichloropropane	ND	51.9		ug/L	50.0	104%	71 - 137	4	20	11D6096	NUD4501-08	04/30/11 12:52
1,2-Dichloropropane	ND	49.9		ug/L	50.0	100%	71 - 139	4	11	11D6096	NUD4501-08	04/30/11 12:52
2,2-Dichloropropane	ND	40.9		ug/L	50.0	82%	10 - 198	8	11	11D6096	NUD4501-08	04/30/11 12:52
cis-1,3-Dichloropropene	2.97	51.0		ug/L	50.0	96%	56 - 156	3	35	11D6096	NUD4501-08	04/30/11 12:52
trans-1,3-Dichloropropene	ND	46.9		ug/L	50.0	94%	47 - 157	2	26	11D6096	NUD4501-08	04/30/11 12:52
1,1-Dichloropropene	ND	52.5		ug/L	50.0	105%	70 - 155	1	18	11D6096	NUD4501-08	04/30/11 12:52
Ethylbenzene	ND	56.2		ug/L	50.0	112%	68 - 157	3	12	11D6096	NUD4501-08	04/30/11 12:52
Hexachlorobutadiene	ND	50.0		ug/L	50.0	100%	47 - 173	2	21	11D6096	NUD4501-08	04/30/11 12:52
2-Hexanone	ND	214		ug/L	250	86%	57 - 154	5	20	11D6096	NUD4501-08	04/30/11 12:52

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11D6096-MSD1												
Isopropylbenzene	ND	57.4		ug/L	50.0	115%	69 - 139	4	15	11D6096	NUD4501-08	04/30/11 12:52
p-Isopropyltoluene	ND	53.9		ug/L	50.0	108%	69 - 151	3	18	11D6096	NUD4501-08	04/30/11 12:52
Methyl tert-Butyl Ether	ND	48.8		ug/L	50.0	98%	56 - 152	7	32	11D6096	NUD4501-08	04/30/11 12:52
Methylene Chloride	ND	42.7		ug/L	50.0	85%	71 - 136	8	36	11D6096	NUD4501-08	04/30/11 12:52
4-Methyl-2-pentanone	2.68	243		ug/L	250	96%	62 - 159	4	35	11D6096	NUD4501-08	04/30/11 12:52
Naphthalene	2.10	42.4		ug/L	50.0	81%	56 - 161	3	30	11D6096	NUD4501-08	04/30/11 12:52
n-Propylbenzene	ND	57.0		ug/L	50.0	114%	61 - 167	3	23	11D6096	NUD4501-08	04/30/11 12:52
Styrene	ND	50.1		ug/L	50.0	100%	69 - 150	3	29	11D6096	NUD4501-08	04/30/11 12:52
1,1,1,2-Tetrachloroethane	ND	54.6		ug/L	50.0	109%	80 - 140	3	11	11D6096	NUD4501-08	04/30/11 12:52
1,1,2,2-Tetrachloroethane	ND	47.9		ug/L	50.0	96%	76 - 141	3	28	11D6096	NUD4501-08	04/30/11 12:52
Tetrachloroethene	0.260	52.3		ug/L	50.0	104%	63 - 155	3	16	11D6096	NUD4501-08	04/30/11 12:52
Toluene	ND	53.5		ug/L	50.0	107%	61 - 153	2	35	11D6096	NUD4501-08	04/30/11 12:52
1,2,3-Trichlorobenzene	ND	42.9		ug/L	50.0	86%	57 - 155	2	28	11D6096	NUD4501-08	04/30/11 12:52
1,2,4-Trichlorobenzene	ND	44.7		ug/L	50.0	89%	64 - 147	2	23	11D6096	NUD4501-08	04/30/11 12:52
1,1,2-Trichloroethane	ND	51.5		ug/L	50.0	103%	74 - 138	2	21	11D6096	NUD4501-08	04/30/11 12:52
1,1,1-Trichloroethane	ND	55.0		ug/L	50.0	110%	78 - 153	7	29	11D6096	NUD4501-08	04/30/11 12:52
Trichloroethene	2.83	54.7		ug/L	50.0	104%	74 - 139	4	11	11D6096	NUD4501-08	04/30/11 12:52
Trichlorofluoromethane	ND	39.9		ug/L	50.0	80%	53 - 149	4	33	11D6096	NUD4501-08	04/30/11 12:52
1,2,3-Trichloropropane	ND	44.8		ug/L	50.0	90%	49 - 148	5	25	11D6096	NUD4501-08	04/30/11 12:52
1,3,5-Trimethylbenzene	ND	58.1		ug/L	50.0	116%	67 - 151	2	21	11D6096	NUD4501-08	04/30/11 12:52
1,2,4-Trimethylbenzene	ND	50.2		ug/L	50.0	100%	69 - 150	3	20	11D6096	NUD4501-08	04/30/11 12:52
Vinyl chloride	ND	38.8		ug/L	50.0	78%	53 - 137	4	32	11D6096	NUD4501-08	04/30/11 12:52
Xylenes, total	ND	165		ug/L	150	110%	68 - 158	4	18	11D6096	NUD4501-08	04/30/11 12:52
Surrogate: 1,2-Dichloroethane-d4		27.7		ug/L	30.0	92%	63 - 140			11D6096	NUD4501-08	04/30/11 12:52
Surrogate: Dibromofluoromethane		30.2		ug/L	30.0	101%	73 - 131			11D6096	NUD4501-08	04/30/11 12:52
Surrogate: Toluene-d8		30.8		ug/L	30.0	103%	80 - 120			11D6096	NUD4501-08	04/30/11 12:52
Surrogate: 4-Bromofluorobenzene		31.4		ug/L	30.0	105%	79 - 125			11D6096	NUD4501-08	04/30/11 12:52
11D7077-MSD1												
Acetone	ND	181		ug/L	250	72%	56 - 150	0.9	31	11D7077	NUD3685-09	04/30/11 11:57
Benzene	ND	46.3		ug/L	50.0	93%	65 - 151	7	12	11D7077	NUD3685-09	04/30/11 11:57
Bromobenzene	ND	50.0		ug/L	50.0	100%	69 - 142	9	23	11D7077	NUD3685-09	04/30/11 11:57
Bromochloromethane	ND	43.1		ug/L	50.0	86%	64 - 154	9	32	11D7077	NUD3685-09	04/30/11 11:57
Bromodichloromethane	ND	44.2		ug/L	50.0	88%	75 - 138	8	13	11D7077	NUD3685-09	04/30/11 11:57
Bromoform	ND	40.9		ug/L	50.0	82%	55 - 153	2	18	11D7077	NUD3685-09	04/30/11 11:57
Bromomethane	ND	48.5		ug/L	50.0	97%	13 - 176	4	50	11D7077	NUD3685-09	04/30/11 11:57
2-Butanone	ND	192		ug/L	250	77%	45 - 164	4	37	11D7077	NUD3685-09	04/30/11 11:57
sec-Butylbenzene	ND	58.0		ug/L	50.0	116%	68 - 159	9	21	11D7077	NUD3685-09	04/30/11 11:57
n-Butylbenzene	ND	51.9		ug/L	50.0	104%	67 - 151	9	11	11D7077	NUD3685-09	04/30/11 11:57
tert-Butylbenzene	ND	52.0		ug/L	50.0	104%	73 - 153	9	20	11D7077	NUD3685-09	04/30/11 11:57
Carbon disulfide	ND	28.0		ug/L	50.0	56%	33 - 187	9	28	11D7077	NUD3685-09	04/30/11 11:57

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11D7077-MSD1												
Carbon Tetrachloride	ND	41.9		ug/L	50.0	84%	64 - 157	9	26	11D7077	NUD3685-09	04/30/11 11:57
Chlorobenzene	ND	47.5		ug/L	50.0	95%	78 - 136	7	11	11D7077	NUD3685-09	04/30/11 11:57
Chlorodibromomethane	ND	45.0		ug/L	50.0	90%	64 - 145	3	16	11D7077	NUD3685-09	04/30/11 11:57
Chloroethane	ND	33.3		ug/L	50.0	67%	48 - 159	8	35	11D7077	NUD3685-09	04/30/11 11:57
Chloroform	ND	45.7		ug/L	50.0	91%	72 - 145	7	32	11D7077	NUD3685-09	04/30/11 11:57
Chloromethane	ND	26.9		ug/L	50.0	54%	10 - 194	5	34	11D7077	NUD3685-09	04/30/11 11:57
2-Chlorotoluene	ND	52.4		ug/L	50.0	105%	66 - 155	9	22	11D7077	NUD3685-09	04/30/11 11:57
4-Chlorotoluene	ND	54.0		ug/L	50.0	108%	69 - 149	10	22	11D7077	NUD3685-09	04/30/11 11:57
1,2-Dibromo-3-chloropropane	ND	38.0		ug/L	50.0	76%	49 - 162	2	21	11D7077	NUD3685-09	04/30/11 11:57
1,2-Dibromoethane (EDB)	ND	49.4		ug/L	50.0	99%	70 - 152	3	10	11D7077	NUD3685-09	04/30/11 11:57
Dibromomethane	ND	46.4		ug/L	50.0	93%	75 - 141	5	11	11D7077	NUD3685-09	04/30/11 11:57
1,4-Dichlorobenzene	ND	47.8		ug/L	50.0	96%	75 - 135	8	10	11D7077	NUD3685-09	04/30/11 11:57
1,3-Dichlorobenzene	ND	49.6		ug/L	50.0	99%	72 - 146	8	18	11D7077	NUD3685-09	04/30/11 11:57
1,2-Dichlorobenzene	ND	49.5		ug/L	50.0	99%	80 - 136	7	11	11D7077	NUD3685-09	04/30/11 11:57
Dichlorodifluoromethane	ND	20.7		ug/L	50.0	41%	23 - 159	6	32	11D7077	NUD3685-09	04/30/11 11:57
1,1-Dichloroethane	ND	46.2		ug/L	50.0	92%	64 - 154	5	34	11D7077	NUD3685-09	04/30/11 11:57
1,2-Dichloroethane	ND	42.8		ug/L	50.0	86%	72 - 137	8	25	11D7077	NUD3685-09	04/30/11 11:57
cis-1,2-Dichloroethene	ND	46.9		ug/L	50.0	94%	57 - 154	7	32	11D7077	NUD3685-09	04/30/11 11:57
1,1-Dichloroethene	ND	39.9		ug/L	50.0	80%	34 - 151	7	31	11D7077	NUD3685-09	04/30/11 11:57
trans-1,2-Dichloroethene	ND	40.9		ug/L	50.0	82%	57 - 157	9	32	11D7077	NUD3685-09	04/30/11 11:57
1,3-Dichloropropane	ND	49.3		ug/L	50.0	99%	71 - 137	3	20	11D7077	NUD3685-09	04/30/11 11:57
1,2-Dichloropropane	ND	46.5		ug/L	50.0	93%	71 - 139	5	11	11D7077	NUD3685-09	04/30/11 11:57
2,2-Dichloropropane	ND	49.6		ug/L	50.0	99%	10 - 198	7	11	11D7077	NUD3685-09	04/30/11 11:57
cis-1,3-Dichloropropene	ND	49.8		ug/L	50.0	100%	56 - 156	3	35	11D7077	NUD3685-09	04/30/11 11:57
trans-1,3-Dichloropropene	ND	45.6		ug/L	50.0	91%	47 - 157	3	26	11D7077	NUD3685-09	04/30/11 11:57
1,1-Dichloropropene	ND	45.1		ug/L	50.0	90%	70 - 155	9	18	11D7077	NUD3685-09	04/30/11 11:57
Ethylbenzene	ND	52.8		ug/L	50.0	106%	68 - 157	7	12	11D7077	NUD3685-09	04/30/11 11:57
Hexachlorobutadiene	ND	48.7		ug/L	50.0	97%	47 - 173	5	21	11D7077	NUD3685-09	04/30/11 11:57
2-Hexanone	ND	204		ug/L	250	82%	57 - 154	2	20	11D7077	NUD3685-09	04/30/11 11:57
Isopropylbenzene	ND	55.4		ug/L	50.0	111%	69 - 139	6	15	11D7077	NUD3685-09	04/30/11 11:57
p-Isopropyltoluene	ND	53.1		ug/L	50.0	106%	69 - 151	10	18	11D7077	NUD3685-09	04/30/11 11:57
Methyl tert-Butyl Ether	ND	47.0		ug/L	50.0	94%	56 - 152	2	32	11D7077	NUD3685-09	04/30/11 11:57
Methylene Chloride	ND	38.9		ug/L	50.0	78%	71 - 136	7	36	11D7077	NUD3685-09	04/30/11 11:57
4-Methyl-2-pentanone	ND	232		ug/L	250	93%	62 - 159	0.3	35	11D7077	NUD3685-09	04/30/11 11:57
Naphthalene	ND	40.2		ug/L	50.0	80%	56 - 161	4	30	11D7077	NUD3685-09	04/30/11 11:57
n-Propylbenzene	ND	55.2		ug/L	50.0	110%	61 - 167	9	23	11D7077	NUD3685-09	04/30/11 11:57
Styrene	ND	49.1		ug/L	50.0	98%	69 - 150	7	29	11D7077	NUD3685-09	04/30/11 11:57
1,1,1,2-Tetrachloroethane	ND	52.8		ug/L	50.0	106%	80 - 140	6	11	11D7077	NUD3685-09	04/30/11 11:57
1,1,2,2-Tetrachloroethane	ND	46.2		ug/L	50.0	92%	76 - 141	4	28	11D7077	NUD3685-09	04/30/11 11:57
Tetrachloroethene	ND	47.1		ug/L	50.0	94%	63 - 155	7	16	11D7077	NUD3685-09	04/30/11 11:57
Toluene	ND	48.1		ug/L	50.0	96%	61 - 153	7	35	11D7077	NUD3685-09	04/30/11 11:57

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11D7077-MSD1												
1,2,3-Trichlorobenzene	ND	42.1		ug/L	50.0	84%	57 - 155	3	28	11D7077	NUD3685-09	04/30/11 11:57
1,2,4-Trichlorobenzene	ND	44.3		ug/L	50.0	89%	64 - 147	3	23	11D7077	NUD3685-09	04/30/11 11:57
1,1,2-Trichloroethane	ND	48.5		ug/L	50.0	97%	74 - 138	4	21	11D7077	NUD3685-09	04/30/11 11:57
1,1,1-Trichloroethane	ND	45.0		ug/L	50.0	90%	78 - 153	8	29	11D7077	NUD3685-09	04/30/11 11:57
Trichloroethene	ND	51.2		ug/L	50.0	102%	74 - 139	3	11	11D7077	NUD3685-09	04/30/11 11:57
Trichlorofluoromethane	ND	33.6		ug/L	50.0	67%	53 - 149	8	33	11D7077	NUD3685-09	04/30/11 11:57
1,2,3-Trichloropropane	ND	43.7		ug/L	50.0	87%	49 - 148	2	25	11D7077	NUD3685-09	04/30/11 11:57
1,3,5-Trimethylbenzene	ND	56.5		ug/L	50.0	113%	67 - 151	9	21	11D7077	NUD3685-09	04/30/11 11:57
1,2,4-Trimethylbenzene	ND	49.2		ug/L	50.0	98%	69 - 150	10	20	11D7077	NUD3685-09	04/30/11 11:57
Vinyl chloride	ND	29.7		ug/L	50.0	59%	53 - 137	5	32	11D7077	NUD3685-09	04/30/11 11:57
Xylenes, total	ND	156		ug/L	150	104%	68 - 158	7	18	11D7077	NUD3685-09	04/30/11 11:57
Surrogate: 1,2-Dichloroethane-d4		27.4		ug/L	30.0	91%	63 - 140			11D7077	NUD3685-09	04/30/11 11:57
Surrogate: Dibromofluoromethane		27.3		ug/L	30.0	91%	73 - 131			11D7077	NUD3685-09	04/30/11 11:57
Surrogate: Toluene-d8		31.0		ug/L	30.0	103%	80 - 120			11D7077	NUD3685-09	04/30/11 11:57
Surrogate: 4-Bromofluorobenzene		31.6		ug/L	30.0	105%	79 - 125			11D7077	NUD3685-09	04/30/11 11:57
11E0023-MSD1												
Acetone	ND	1650		ug/L	2500	66%	56 - 150	3	31	11E0023	NUD3685-13R E1	05/01/11 06:16
Benzene	ND	444		ug/L	500	89%	65 - 151	7	12	11E0023	NUD3685-13R E1	05/01/11 06:16
Bromobenzene	ND	496		ug/L	500	99%	69 - 142	7	23	11E0023	NUD3685-13R E1	05/01/11 06:16
Bromochloromethane	ND	402		ug/L	500	80%	64 - 154	4	32	11E0023	NUD3685-13R E1	05/01/11 06:16
Bromodichloromethane	ND	448		ug/L	500	90%	75 - 138	6	13	11E0023	NUD3685-13R E1	05/01/11 06:16
Bromoform	ND	413		ug/L	500	83%	55 - 153	4	18	11E0023	NUD3685-13R E1	05/01/11 06:16
Bromomethane	ND	424		ug/L	500	85%	13 - 176	6	50	11E0023	NUD3685-13R E1	05/01/11 06:16
2-Butanone	ND	1830		ug/L	2500	73%	45 - 164	3	37	11E0023	NUD3685-13R E1	05/01/11 06:16
sec-Butylbenzene	ND	571		ug/L	500	114%	68 - 159	4	21	11E0023	NUD3685-13R E1	05/01/11 06:16
n-Butylbenzene	ND	495		ug/L	500	99%	67 - 151	5	11	11E0023	NUD3685-13R E1	05/01/11 06:16
tert-Butylbenzene	ND	513		ug/L	500	103%	73 - 153	5	20	11E0023	NUD3685-13R E1	05/01/11 06:16
Carbon disulfide	ND	212		ug/L	500	42%	33 - 187	5	28	11E0023	NUD3685-13R E1	05/01/11 06:16
Carbon Tetrachloride	ND	412		ug/L	500	82%	64 - 157	5	26	11E0023	NUD3685-13R E1	05/01/11 06:16
Chlorobenzene	ND	465		ug/L	500	93%	78 - 136	6	11	11E0023	NUD3685-13R E1	05/01/11 06:16
Chlorodibromomethane	ND	453		ug/L	500	91%	64 - 145	6	16	11E0023	NUD3685-13R E1	05/01/11 06:16

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11E0023-MSD1												
Chloroethane	ND	284		ug/L	500	57%	48 - 159	5	35	11E0023	NUD3685-13R E1	05/01/11 06:16
Chloroform	ND	430		ug/L	500	86%	72 - 145	5	32	11E0023	NUD3685-13R E1	05/01/11 06:16
Chloromethane	ND	248		ug/L	500	50%	10 - 194	7	34	11E0023	NUD3685-13R E1	05/01/11 06:16
2-Chlorotoluene	ND	518		ug/L	500	104%	66 - 155	7	22	11E0023	NUD3685-13R E1	05/01/11 06:16
4-Chlorotoluene	ND	523		ug/L	500	105%	69 - 149	5	22	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2-Dibromo-3-chloropropane	ND	394		ug/L	500	79%	49 - 162	8	21	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2-Dibromoethane (EDB)	ND	488		ug/L	500	98%	70 - 152	5	10	11E0023	NUD3685-13R E1	05/01/11 06:16
Dibromomethane	ND	449		ug/L	500	90%	75 - 141	4	11	11E0023	NUD3685-13R E1	05/01/11 06:16
1,4-Dichlorobenzene	ND	471		ug/L	500	94%	75 - 135	6	10	11E0023	NUD3685-13R E1	05/01/11 06:16
1,3-Dichlorobenzene	ND	484		ug/L	500	97%	72 - 146	7	18	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2-Dichlorobenzene	ND	493		ug/L	500	99%	80 - 136	7	11	11E0023	NUD3685-13R E1	05/01/11 06:16
Dichlorodifluoromethane	ND	187		ug/L	500	37%	23 - 159	6	32	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1-Dichloroethane	ND	405		ug/L	500	81%	64 - 154	6	34	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2-Dichloroethane	ND	414		ug/L	500	83%	72 - 137	4	25	11E0023	NUD3685-13R E1	05/01/11 06:16
cis-1,2-Dichloroethene	ND	411		ug/L	500	82%	57 - 154	5	32	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1-Dichloroethene	ND	346		ug/L	500	69%	34 - 151	4	31	11E0023	NUD3685-13R E1	05/01/11 06:16
trans-1,2-Dichloroethene	ND	342		ug/L	500	68%	57 - 157	6	32	11E0023	NUD3685-13R E1	05/01/11 06:16
1,3-Dichloropropane	ND	482		ug/L	500	96%	71 - 137	8	20	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2-Dichloropropane	ND	450		ug/L	500	90%	71 - 139	5	11	11E0023	NUD3685-13R E1	05/01/11 06:16
2,2-Dichloropropane	ND	421		ug/L	500	84%	10 - 198	5	11	11E0023	NUD3685-13R E1	05/01/11 06:16
cis-1,3-Dichloropropene	ND	467		ug/L	500	93%	56 - 156	3	35	11E0023	NUD3685-13R E1	05/01/11 06:16
trans-1,3-Dichloropropene	ND	437		ug/L	500	87%	47 - 157	5	26	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1-Dichloropropene	ND	422		ug/L	500	84%	70 - 155	7	18	11E0023	NUD3685-13R E1	05/01/11 06:16
Ethylbenzene	ND	502		ug/L	500	100%	68 - 157	5	12	11E0023	NUD3685-13R E1	05/01/11 06:16
Hexachlorobutadiene	ND	503		ug/L	500	101%	47 - 173	6	21	11E0023	NUD3685-13R E1	05/01/11 06:16
2-Hexanone	ND	2010		ug/L	2500	80%	57 - 154	5	20	11E0023	NUD3685-13R E1	05/01/11 06:16

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11E0023-MSD1												
Isopropylbenzene	ND	540		ug/L	500	108%	69 - 139	4	15	11E0023	NUD3685-13R E1	05/01/11 06:16
p-Isopropyltoluene	ND	512		ug/L	500	102%	69 - 151	4	18	11E0023	NUD3685-13R E1	05/01/11 06:16
Methyl tert-Butyl Ether	485	864		ug/L	500	76%	56 - 152	4	32	11E0023	NUD3685-13R E1	05/01/11 06:16
Methylene Chloride	8.10	354	M8	ug/L	500	69%	71 - 136	5	36	11E0023	NUD3685-13R E1	05/01/11 06:16
4-Methyl-2-pentanone	ND	2270		ug/L	2500	91%	62 - 159	4	35	11E0023	NUD3685-13R E1	05/01/11 06:16
Naphthalene	ND	404		ug/L	500	81%	56 - 161	5	30	11E0023	NUD3685-13R E1	05/01/11 06:16
n-Propylbenzene	ND	535		ug/L	500	107%	61 - 167	6	23	11E0023	NUD3685-13R E1	05/01/11 06:16
Styrene	ND	479		ug/L	500	96%	69 - 150	7	29	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1,1,2-Tetrachloroethane	ND	532		ug/L	500	106%	80 - 140	6	11	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1,2,2-Tetrachloroethane	ND	476		ug/L	500	95%	76 - 141	7	28	11E0023	NUD3685-13R E1	05/01/11 06:16
Tetrachloroethene	ND	434		ug/L	500	87%	63 - 155	3	16	11E0023	NUD3685-13R E1	05/01/11 06:16
Toluene	ND	456		ug/L	500	91%	61 - 153	6	35	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2,3-Trichlorobenzene	ND	418		ug/L	500	84%	57 - 155	4	28	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2,4-Trichlorobenzene	ND	444		ug/L	500	89%	64 - 147	5	23	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1,2-Trichloroethane	ND	488		ug/L	500	98%	74 - 138	5	21	11E0023	NUD3685-13R E1	05/01/11 06:16
1,1,1-Trichloroethane	ND	431		ug/L	500	86%	78 - 153	2	29	11E0023	NUD3685-13R E1	05/01/11 06:16
Trichloroethene	ND	460		ug/L	500	92%	74 - 139	6	11	11E0023	NUD3685-13R E1	05/01/11 06:16
Trichlorofluoromethane	ND	309		ug/L	500	62%	53 - 149	6	33	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2,3-Trichloropropane	ND	440		ug/L	500	88%	49 - 148	6	25	11E0023	NUD3685-13R E1	05/01/11 06:16
1,3,5-Trimethylbenzene	ND	549		ug/L	500	110%	67 - 151	5	21	11E0023	NUD3685-13R E1	05/01/11 06:16
1,2,4-Trimethylbenzene	ND	473		ug/L	500	95%	69 - 150	4	20	11E0023	NUD3685-13R E1	05/01/11 06:16
Vinyl chloride	ND	256	M8	ug/L	500	51%	53 - 137	5	32	11E0023	NUD3685-13R E1	05/01/11 06:16
Xylenes, total	ND	1490		ug/L	1500	100%	68 - 158	6	18	11E0023	NUD3685-13R E1	05/01/11 06:16
Surrogate: 1,2-Dichloroethane-d4		27.2		ug/L	30.0	91%	63 - 140			11E0023	NUD3685-13R E1	05/01/11 06:16
Surrogate: Dibromofluoromethane		26.6		ug/L	30.0	89%	73 - 131			11E0023	NUD3685-13R E1	05/01/11 06:16
Surrogate: Toluene-d8		30.6		ug/L	30.0	102%	80 - 120			11E0023	NUD3685-13R E1	05/01/11 06:16

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11E0023-MSD1												
Surrogate: 4-Bromofluorobenzene		31.2		ug/L	30.0	104%	79 - 125			11E0023	NUD3685-13R E1	05/01/11 06:16

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Illinois
SW846 8260B	Water	N/A	X	X

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Mabbett & Associates, Inc. (10615)	Work Order:	NUD3816
	5 Alfred Circle	Project Name:	Bodycote 1998002.292
	Bedford, MA 01730	Project Number:	1998002.292
Attn	Christopher Mabbett	Received:	04/22/11 08:30

DATA QUALIFIERS AND DEFINITIONS

M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER REC

NUD3816

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

1. Tracking # 5167 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 3.7 *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) JG

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) JG

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) JG

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) JG

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

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

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 #: 4691
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.292
Facility ID: 1998002.292
Reg District (CA): ~~1975 North Ruby~~ (CA)
Site Address: 1975 North Ruby Street
City,State,Zip: Melrose Park Illinois 60160

NUD3816
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: 8260B Volatile Organics	RUSH TAT (Pre Schedule)
1	MCA-5-042011	4/20/11	1200	3	X		N			X						X						X	
2	M&A-104-042011	4/20/11	1045	3	X		N			X						X						X	
3	M&A-111-042011	4/20/11	1330	3	X		N			X						X						X	
4	M&A-112-042011	4/20/11	1640	3	X		N			X						X						X	
5	M&A 115-042011	4/20/11	0850	3	X		N			X						X						X	
6	M&A-116-042011	4/20/11	0630	3	X		N			X						X						X	
7	M&A-122-042011	4/20/11	1600	3	X		N			X						X						X	
8	M&A-126-042011	4/20/11	1415	3	X		N			X						X						X	
9	TB-01-042011	4/20/11	1200	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 # 24280*
4810 3522 5167

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	4/21/11	1200						
Shipped Via: FedEx Overnight			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: [signature]	Date: 4/22/11	Time: 0830	Temperature Upon Receipt:	Sample Containers Intact? Y N; VOCs Free of Headspace? Y N				

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: NUJ3354
Client Project/Site: 1998002.302
Client Project Description: Bodycote 1998002.302

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

Attn: Christopher Mabbett

Roxanne L. Connor

Authorized for release by:
11/4/2011 3:12:40 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.

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Sample Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUJ3354-01	MCA-5-102511	Ground Water	10/25/11 07:30	10/26/11 07:35
NUJ3354-02	M&A-104-102511	Ground Water	10/25/11 10:15	10/26/11 07:35
NUJ3354-03	M&A-111-102511	Ground Water	10/25/11 10:30	10/26/11 07:35
NUJ3354-04	M&A-112-102511	Ground Water	10/25/11 11:00	10/26/11 07:35
NUJ3354-05	M&A-115-102411	Ground Water	10/24/11 14:30	10/26/11 07:35
NUJ3354-06	M&A-116-102411	Ground Water	10/24/11 11:30	10/26/11 07:35
NUJ3354-07	M&A-122-102511	Ground Water	10/25/11 12:00	10/26/11 07:35
NUJ3354-08	M&A-126-102511	Ground Water	10/25/11 09:00	10/26/11 07:35
NUJ3354-09	TB-01-102511	Ground Water	10/25/11 12:00	10/26/11 07:35

Definitions/Glossary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
B1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
PV	Acid preservation was indicated on the sample vial. However, a pH of <2 was not obtained.

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: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-01
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Benzene	1.04		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Bromoform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Carbon disulfide	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Chloroform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1-Dichloroethane	5.36		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Ethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Methylene Chloride	ND		5.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Styrene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Tetrachloroethene	53.9		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Toluene	11.0		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00

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

Lab Sample ID: NUJ3354-01
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1,2-Trichloroethane	1.42		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00
Xylenes, total	ND		3.00		ug/L		10/26/11 17:29	10/28/11 01:44	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*103*		*70 - 130*	*10/26/11 17:29*	*10/28/11 01:44*	*1.00*
Dibromofluoromethane	*104*		*70 - 130*	*10/26/11 17:29*	*10/28/11 01:44*	*1.00*
Toluene-d8	*91*		*70 - 130*	*10/26/11 17:29*	*10/28/11 01:44*	*1.00*
4-Bromofluorobenzene	*95*		*70 - 130*	*10/26/11 17:29*	*10/28/11 01:44*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	362		50.0		ug/L		10/26/11 17:29	10/28/11 22:32	50.0
trans-1,2-Dichloroethene	1510		50.0		ug/L		10/26/11 17:29	10/28/11 22:32	50.0
Vinyl chloride	7470		50.0		ug/L		10/26/11 17:29	10/28/11 22:32	50.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:32*	*50.0*
Dibromofluoromethane	*104*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:32*	*50.0*
Toluene-d8	*92*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:32*	*50.0*
4-Bromofluorobenzene	*88*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:32*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	51200		500		ug/L		10/26/11 17:29	10/28/11 22:58	500
Trichloroethene	51000	B1	500		ug/L		10/26/11 17:29	10/28/11 22:58	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:58*	*500*
Dibromofluoromethane	*113*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:58*	*500*
Toluene-d8	*90*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:58*	*500*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/26/11 17:29*	*10/28/11 22:58*	*500*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-02
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Benzene	1.52		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Bromoform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Carbon disulfide	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Chloroform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1-Dichloroethane	8.67		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2-Dichloroethane	1.12		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1-Dichloroethene	130		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1-Dichloropropene	1.07		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Ethylbenzene	6.44		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Methylene Chloride	5.06		5.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Styrene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Toluene	84.3		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00

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

Lab Sample ID: NUJ3354-02
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1,2-Trichloroethane	**5.89**		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
1,2,4-Trimethylbenzene	**1.97**		1.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00
Xylenes, total	**20.8**		3.00		ug/L		10/26/11 17:29	10/28/11 02:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*70 - 130*	*10/26/11 17:29*	*10/28/11 02:10*	*1.00*
Dibromofluoromethane	*100*		*70 - 130*	*10/26/11 17:29*	*10/28/11 02:10*	*1.00*
Toluene-d8	*86*		*70 - 130*	*10/26/11 17:29*	*10/28/11 02:10*	*1.00*
4-Bromofluorobenzene	*94*		*70 - 130*	*10/26/11 17:29*	*10/28/11 02:10*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**311**		100		ug/L		10/26/11 17:29	10/28/11 23:23	100
Tetrachloroethene	**1770**		100		ug/L		10/26/11 17:29	10/28/11 23:23	100
Vinyl chloride	**2060**		100		ug/L		10/26/11 17:29	10/28/11 23:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:23*	*100*
Dibromofluoromethane	*108*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:23*	*100*
Toluene-d8	*90*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:23*	*100*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:23*	*100*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**37700**		2000		ug/L		10/26/11 17:29	10/28/11 23:49	2000
Trichloroethene	**279000**	B1	2000		ug/L		10/26/11 17:29	10/28/11 23:49	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:49*	*2000*
Dibromofluoromethane	*108*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:49*	*2000*
Toluene-d8	*92*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:49*	*2000*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/26/11 17:29*	*10/28/11 23:49*	*2000*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-03
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	298		10.0		ug/L		10/26/11 17:29	10/28/11 20:25	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*10/26/11 17:29*	*10/28/11 20:25*	*10.0*
Dibromofluoromethane	*109*		*70 - 130*	*10/26/11 17:29*	*10/28/11 20:25*	*10.0*
Toluene-d8	*88*		*70 - 130*	*10/26/11 17:29*	*10/28/11 20:25*	*10.0*
4-Bromofluorobenzene	*88*		*70 - 130*	*10/26/11 17:29*	*10/28/11 20:25*	*10.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Benzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Bromobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Bromochloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Bromodichloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Bromoform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Bromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
2-Butanone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
n-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Carbon disulfide	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Chlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Chloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Chloroform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Chloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Dibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
cis-1,2-Dichloroethene	70.4		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Ethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-03
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Isopropylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Methylene Chloride	ND		5.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Naphthalene	ND		5.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
n-Propylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Styrene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Tetrachloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Toluene	**1.29**		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Trichloroethene	**5.43**		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00
Xylenes, total	ND		3.00		ug/L		10/29/11 09:39	10/29/11 16:28	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*10/29/11 09:39*	*10/29/11 16:28*	*1.00*
Dibromofluoromethane	*110*		*70 - 130*	*10/29/11 09:39*	*10/29/11 16:28*	*1.00*
Toluene-d8	*88*		*70 - 130*	*10/29/11 09:39*	*10/29/11 16:28*	*1.00*
4-Bromofluorobenzene	*89*		*70 - 130*	*10/29/11 09:39*	*10/29/11 16:28*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-04
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Benzene	**1.04**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Bromoform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Carbon disulfide	**1.08**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Chloroform	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1-Dichloroethene	**60.8**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
trans-1,2-Dichloroethene	**154**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Ethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Methylene Chloride	ND		5.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Styrene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-04
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**86.5**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Toluene	**2.83**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
1,2,4-Trimethylbenzene	**1.04**		1.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00
Xylenes, total	ND		3.00		ug/L		10/26/11 17:29	10/28/11 03:01	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*10/26/11 17:29*	*10/28/11 03:01*	*1.00*
Dibromofluoromethane	*109*		*70 - 130*	*10/26/11 17:29*	*10/28/11 03:01*	*1.00*
Toluene-d8	*94*		*70 - 130*	*10/26/11 17:29*	*10/28/11 03:01*	*1.00*
4-Bromofluorobenzene	*92*		*70 - 130*	*10/26/11 17:29*	*10/28/11 03:01*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**5310**		50.0		ug/L		10/26/11 17:29	10/29/11 00:14	50.0
Trichloroethene	**3820**	B1	50.0		ug/L		10/26/11 17:29	10/29/11 00:14	50.0
Vinyl chloride	650		50.0		ug/L		10/26/11 17:29	10/29/11 00:14	50.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*70 - 130*	*10/26/11 17:29*	*10/29/11 00:14*	*50.0*
Dibromofluoromethane	*108*		*70 - 130*	*10/26/11 17:29*	*10/29/11 00:14*	*50.0*
Toluene-d8	*89*		*70 - 130*	*10/26/11 17:29*	*10/29/11 00:14*	*50.0*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/26/11 17:29*	*10/29/11 00:14*	*50.0*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Client Sample ID: M&A-115-102411
Date Collected: 10/24/11 14:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3354-05
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Benzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Bromobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Bromochloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Bromodichloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Bromoform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Bromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
2-Butanone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
n-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Carbon disulfide	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Chlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Chloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Chloroform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Chloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Dibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
cis-1,2-Dichloroethene	80.3		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Ethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
2-Hexanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Isopropylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Methylene Chloride	ND		5.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Naphthalene	ND		5.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
n-Propylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Styrene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00

Client Sample ID: M&A-115-102411
Date Collected: 10/24/11 14:30
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3354-05
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Tetrachloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Toluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Trichloroethene	**1.96**		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Vinyl chloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00
Xylenes, total	ND		3.00		ug/L		10/29/11 09:39	10/29/11 13:54	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*70 - 130*	*10/29/11 09:39*	*10/29/11 13:54*	*1.00*
Dibromofluoromethane	*108*		*70 - 130*	*10/29/11 09:39*	*10/29/11 13:54*	*1.00*
Toluene-d8	*88*		*70 - 130*	*10/29/11 09:39*	*10/29/11 13:54*	*1.00*
4-Bromofluorobenzene	*89*		*70 - 130*	*10/29/11 09:39*	*10/29/11 13:54*	*1.00*

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

Lab Sample ID: NUJ3354-06
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Benzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Bromobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Bromochloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Bromodichloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Bromoform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Bromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
2-Butanone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
n-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Carbon disulfide	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Chlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Chloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Chloroform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Chloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Dibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
cis-1,2-Dichloroethene	17.0		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
trans-1,2-Dichloroethene	2.37		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Ethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
2-Hexanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Isopropylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Methylene Chloride	ND		5.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Naphthalene	ND		5.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
n-Propylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Styrene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00

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

Lab Sample ID: NUJ3354-06
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Tetrachloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Toluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Trichloroethene	**14.7**		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Vinyl chloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00
Xylenes, total	ND		3.00		ug/L		10/29/11 09:39	10/29/11 14:20	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:20*	*1.00*
Dibromofluoromethane	*108*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:20*	*1.00*
Toluene-d8	*91*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:20*	*1.00*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:20*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-07
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Benzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Bromobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Bromochloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Bromodichloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Bromoform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Bromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
2-Butanone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
n-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Carbon disulfide	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Chlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Chloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Chloroform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Chloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Dibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
cis-1,2-Dichloroethene	3.20		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Ethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
2-Hexanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Isopropylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Methylene Chloride	ND		5.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Naphthalene	ND		5.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
n-Propylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Styrene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-07
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Tetrachloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Toluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Trichloroethene	**1.04**		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Vinyl chloride	**4.37**		1.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00
Xylenes, total	ND		3.00		ug/L		10/29/11 09:39	10/29/11 14:45	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:45*	*1.00*
Dibromofluoromethane	*108*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:45*	*1.00*
Toluene-d8	*89*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:45*	*1.00*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/29/11 09:39*	*10/29/11 14:45*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-08
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PV	50.0		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Benzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Bromobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Bromochloromethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Bromodichloromethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Bromoform	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Bromomethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
2-Butanone	ND	PV	50.0		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
sec-Butylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
n-Butylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
tert-Butylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Carbon disulfide	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Carbon Tetrachloride	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Chlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Chlorodibromomethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Chloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Chloroform	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Chloromethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
2-Chlorotoluene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
4-Chlorotoluene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2-Dibromo-3-chloropropane	ND	PV	10.0		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2-Dibromoethane (EDB)	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Dibromomethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,4-Dichlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,3-Dichlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2-Dichlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Dichlorodifluoromethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1-Dichloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2-Dichloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
cis-1,2-Dichloroethene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1-Dichloroethene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
trans-1,2-Dichloroethene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,3-Dichloropropane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2-Dichloropropane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
2,2-Dichloropropane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
cis-1,3-Dichloropropene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
trans-1,3-Dichloropropene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1-Dichloropropene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Ethylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Hexachlorobutadiene	ND	PV	2.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
2-Hexanone	ND	PV	10.0		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Isopropylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
p-Isopropyltoluene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Methyl tert-Butyl Ether	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Methylene Chloride	ND	PV	5.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
4-Methyl-2-pentanone	ND	PV	10.0		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Naphthalene	ND	PV	5.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
n-Propylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Styrene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1,1,2-Tetrachloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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

Lab Sample ID: NUJ3354-08
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Tetrachloroethene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Toluene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2,3-Trichlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2,4-Trichlorobenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1,2-Trichloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,1,1-Trichloroethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Trichloroethene	**2.72**	**PV**	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Trichlorofluoromethane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2,3-Trichloropropane	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,3,5-Trimethylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
1,2,4-Trimethylbenzene	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Vinyl chloride	ND	PV	1.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00
Xylenes, total	ND	PV	3.00		ug/L		10/29/11 09:39	10/29/11 15:11	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*10/29/11 09:39*	*10/29/11 15:11*	*1.00*
Dibromofluoromethane	*109*		*70 - 130*	*10/29/11 09:39*	*10/29/11 15:11*	*1.00*
Toluene-d8	*89*		*70 - 130*	*10/29/11 09:39*	*10/29/11 15:11*	*1.00*
4-Bromofluorobenzene	*88*		*70 - 130*	*10/29/11 09:39*	*10/29/11 15:11*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Client Sample ID: TB-01-102511
Date Collected: 10/25/11 12:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3354-09
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Benzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Bromoform	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Carbon disulfide	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Chloroform	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Ethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Methylene Chloride	ND		5.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Styrene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Client Sample ID: TB-01-102511
Date Collected: 10/25/11 12:00
Date Received: 10/26/11 07:35

Lab Sample ID: NUJ3354-09
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Tetrachloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Toluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Trichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Vinyl chloride	ND		1.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00
Xylenes, total	ND		3.00		ug/L		10/26/11 17:29	10/27/11 15:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*70 - 130*	*10/26/11 17:29*	*10/27/11 15:32*	*1.00*
Dibromofluoromethane	*110*		*70 - 130*	*10/26/11 17:29*	*10/27/11 15:32*	*1.00*
Toluene-d8	*92*		*70 - 130*	*10/26/11 17:29*	*10/27/11 15:32*	*1.00*
4-Bromofluorobenzene	*92*		*70 - 130*	*10/26/11 17:29*	*10/27/11 15:32*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11J6162-BLK1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Benzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Bromoform	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Carbon disulfide	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Chloroform	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Ethylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Methylene Chloride	ND		5.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Styrene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6162-BLK1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Tetrachloroethene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Toluene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Trichloroethene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Vinyl chloride	ND		1.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00
Xylenes, total	ND		3.00		ug/L		10/26/11 14:37	10/27/11 10:50	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*106*		*70 - 130*	*10/26/11 14:37*	*10/27/11 10:50*	*1.00*
Dibromofluoromethane	*107*		*70 - 130*	*10/26/11 14:37*	*10/27/11 10:50*	*1.00*
Toluene-d8	*93*		*70 - 130*	*10/26/11 14:37*	*10/27/11 10:50*	*1.00*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/26/11 14:37*	*10/27/11 10:50*	*1.00*

Lab Sample ID: 11J6162-BS1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	117		ug/L		117	54 - 145
Benzene	20.0	22.1		ug/L		110	80 - 121
Bromobenzene	20.0	19.7		ug/L		98	68 - 130
Bromochloromethane	20.0	24.3		ug/L		122	78 - 129
Bromodichloromethane	20.0	23.2		ug/L		116	75 - 129
Bromoform	20.0	19.8		ug/L		99	46 - 145
Bromomethane	20.0	16.1		ug/L		81	41 - 150
2-Butanone	100	116		ug/L		116	62 - 133
sec-Butylbenzene	20.0	20.2		ug/L		101	76 - 128
n-Butylbenzene	20.0	19.5		ug/L		97	68 - 132
tert-Butylbenzene	20.0	20.6		ug/L		103	76 - 126
Carbon disulfide	20.0	21.0		ug/L		105	77 - 126
Carbon Tetrachloride	20.0	22.1		ug/L		110	64 - 147
Chlorobenzene	20.0	22.4		ug/L		112	80 - 120
Chlorodibromomethane	20.0	20.3		ug/L		101	69 - 133
Chloroethane	20.0	18.1		ug/L		90	72 - 120
Chloroform	20.0	23.0		ug/L		115	73 - 129
Chloromethane	20.0	6.20		ug/L		31	12 - 150
2-Chlorotoluene	20.0	20.1		ug/L		100	75 - 126
4-Chlorotoluene	20.0	20.6		ug/L		103	75 - 130
1,2-Dibromo-3-chloropropane	20.0	17.8		ug/L		89	54 - 125
1,2-Dibromoethane (EDB)	20.0	22.2		ug/L		111	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6162-BS1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	20.0	23.9		ug/L		119	71 - 125
1,4-Dichlorobenzene	20.0	22.5		ug/L		113	80 - 120
1,3-Dichlorobenzene	20.0	21.9		ug/L		110	80 - 122
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 121
Dichlorodifluoromethane	20.0	21.6		ug/L		108	37 - 127
1,1-Dichloroethane	20.0	22.3		ug/L		111	78 - 125
1,2-Dichloroethane	20.0	23.8		ug/L		119	77 - 121
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	76 - 125
1,1-Dichloroethene	20.0	22.3		ug/L		112	79 - 124
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	79 - 126
1,3-Dichloropropane	20.0	22.2		ug/L		111	80 - 125
1,2-Dichloropropane	20.0	20.2		ug/L		101	75 - 120
2,2-Dichloropropane	20.0	16.6		ug/L		83	43 - 161
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	74 - 140
trans-1,3-Dichloropropene	20.0	14.7		ug/L		73	63 - 134
1,1-Dichloropropene	20.0	21.9		ug/L		110	80 - 122
Ethylbenzene	20.0	21.0		ug/L		105	80 - 130
Hexachlorobutadiene	20.0	20.7		ug/L		103	49 - 146
2-Hexanone	100	103		ug/L		103	60 - 142
Isopropylbenzene	20.0	22.7		ug/L		114	80 - 141
p-Isopropyltoluene	20.0	19.7		ug/L		99	75 - 128
Methyl tert-Butyl Ether	20.0	18.1		ug/L		90	72 - 133
Methylene Chloride	20.0	21.2		ug/L		106	79 - 123
4-Methyl-2-pentanone	100	100		ug/L		100	60 - 137
Naphthalene	20.0	19.5		ug/L		98	62 - 138
n-Propylbenzene	20.0	20.4		ug/L		102	75 - 129
Styrene	20.0	21.4		ug/L		107	80 - 127
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	74 - 135
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	69 - 131
Tetrachloroethene	20.0	22.6		ug/L		113	80 - 126
Toluene	20.0	21.6		ug/L		108	80 - 126
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		107	62 - 133
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		104	63 - 133
1,1,2-Trichloroethane	20.0	22.2		ug/L		111	80 - 124
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	78 - 135
Trichloroethene	20.0	23.1		ug/L		115	80 - 123
Trichlorofluoromethane	20.0	21.5		ug/L		107	65 - 124
1,2,3-Trichloropropane	20.0	21.1		ug/L		106	70 - 131
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	77 - 127
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	77 - 126
Vinyl chloride	20.0	19.2		ug/L		96	68 - 120
Xylenes, total	60.0	63.3		ug/L		105	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*98*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*92*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6162-MS1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		2500	2100		ug/L		84	45 - 141
Benzene	ND		500	539		ug/L		108	75 - 133
Bromobenzene	ND		500	423		ug/L		85	60 - 138
Bromochloromethane	ND		500	566		ug/L		113	67 - 139
Bromodichloromethane	ND		500	580		ug/L		116	70 - 140
Bromoform	ND		500	464		ug/L		93	42 - 147
Bromomethane	ND		500	385		ug/L		77	16 - 163
2-Butanone	ND		2500	2480		ug/L		99	50 - 138
sec-Butylbenzene	ND		500	469		ug/L		94	73 - 138
n-Butylbenzene	ND		500	474		ug/L		95	66 - 141
tert-Butylbenzene	ND		500	468		ug/L		94	70 - 138
Carbon disulfide	ND		500	505		ug/L		101	48 - 152
Carbon Tetrachloride	32.9		500	579		ug/L		109	62 - 164
Chlorobenzene	ND		500	528		ug/L		106	80 - 129
Chlorodibromomethane	ND		500	484		ug/L		97	66 - 140
Chloroethane	ND		500	514		ug/L		103	58 - 137
Chloroform	ND		500	566		ug/L		113	66 - 138
Chloromethane	ND		500	181		ug/L		36	10 - 169
2-Chlorotoluene	ND		500	443		ug/L		89	67 - 138
4-Chlorotoluene	ND		500	453		ug/L		91	69 - 138
1,2-Dibromo-3-chloropropane	ND		500	370		ug/L		74	52 - 126
1,2-Dibromoethane (EDB)	ND		500	501		ug/L		100	75 - 137
Dibromomethane	ND		500	554		ug/L		111	58 - 140
1,4-Dichlorobenzene	ND		500	518		ug/L		104	78 - 126
1,3-Dichlorobenzene	ND		500	501		ug/L		100	77 - 131
1,2-Dichlorobenzene	ND		500	485		ug/L		97	79 - 128
Dichlorodifluoromethane	ND		500	448		ug/L		90	40 - 127
1,1-Dichloroethane	407		500	934		ug/L		106	71 - 139
1,2-Dichloroethane	ND		500	555		ug/L		111	64 - 136
cis-1,2-Dichloroethene	27.5		500	603		ug/L		115	68 - 138
1,1-Dichloroethene	67.2		500	627		ug/L		112	70 - 142
trans-1,2-Dichloroethene	ND		500	534		ug/L		107	66 - 143
1,3-Dichloropropane	ND		500	500		ug/L		100	72 - 134
1,2-Dichloropropane	ND		500	490		ug/L		98	67 - 131
2,2-Dichloropropane	ND		500	417		ug/L		83	37 - 175
cis-1,3-Dichloropropene	ND		500	480		ug/L		96	71 - 141
trans-1,3-Dichloropropene	ND		500	360		ug/L		72	59 - 135
1,1-Dichloropropene	ND		500	555		ug/L		111	76 - 139
Ethylbenzene	ND		500	508		ug/L		102	79 - 139
Hexachlorobutadiene	ND		500	437		ug/L		87	45 - 155
2-Hexanone	ND		2500	2250		ug/L		90	50 - 150
Isopropylbenzene	ND		500	553		ug/L		111	80 - 153
p-Isopropyltoluene	ND		500	474		ug/L		95	71 - 137
Methyl tert-Butyl Ether	ND		500	408		ug/L		82	66 - 141
Methylene Chloride	ND		500	494		ug/L		99	64 - 139
4-Methyl-2-pentanone	ND		2500	2290		ug/L		92	50 - 147
Naphthalene	ND		500	375		ug/L		75	55 - 140
n-Propylbenzene	ND		500	454		ug/L		91	69 - 142
Styrene	ND		500	502		ug/L		100	61 - 148

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6162-MS1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		500	496		ug/L		99	73 - 141
1,1,2,2-Tetrachloroethane	ND		500	450		ug/L		90	56 - 143
Tetrachloroethene	15.5		500	562		ug/L		109	72 - 145
Toluene	ND		500	510		ug/L		102	75 - 136
1,2,3-Trichlorobenzene	ND		500	422		ug/L		84	55 - 138
1,2,4-Trichlorobenzene	ND		500	436		ug/L		87	60 - 136
1,1,2-Trichloroethane	ND		500	509		ug/L		102	74 - 134
1,1,1-Trichloroethane	132		500	708		ug/L		115	76 - 149
Trichloroethene	22.5		500	592		ug/L		114	73 - 144
Trichlorofluoromethane	ND		500	585		ug/L		117	58 - 139
1,2,3-Trichloropropane	ND		500	435		ug/L		87	53 - 144
1,3,5-Trimethylbenzene	ND		500	447		ug/L		89	69 - 139
1,2,4-Trimethylbenzene	ND		500	440		ug/L		88	69 - 136
Vinyl chloride	ND		500	494		ug/L		99	56 - 129
Xylenes, total	ND		1500	1500		ug/L		100	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*99*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*86*		*70 - 130*

Lab Sample ID: 11J6162-MSD1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		2500	1980		ug/L		79	45 - 141	6	21
Benzene	ND		500	476		ug/L		95	75 - 133	12	17
Bromobenzene	ND		500	402		ug/L		80	60 - 138	5	20
Bromochloromethane	ND		500	503		ug/L		101	67 - 139	12	17
Bromodichloromethane	ND		500	523		ug/L		105	70 - 140	10	18
Bromoform	ND		500	417		ug/L		83	42 - 147	11	16
Bromomethane	ND		500	360		ug/L		72	16 - 163	6	50
2-Butanone	ND		2500	2290		ug/L		91	50 - 138	8	19
sec-Butylbenzene	ND		500	446		ug/L		89	73 - 138	5	16
n-Butylbenzene	ND		500	433		ug/L		87	66 - 141	9	18
tert-Butylbenzene	ND		500	449		ug/L		90	70 - 138	4	16
Carbon disulfide	ND		500	447		ug/L		89	48 - 152	12	21
Carbon Tetrachloride	32.9		500	512		ug/L		96	62 - 164	12	19
Chlorobenzene	ND		500	472		ug/L		94	80 - 129	11	14
Chlorodibromomethane	ND		500	432		ug/L		86	66 - 140	11	15
Chloroethane	ND		500	440		ug/L		88	58 - 137	16	20
Chloroform	ND		500	502		ug/L		100	66 - 138	12	18
Chloromethane	ND		500	141		ug/L		28	10 - 169	25	31
2-Chlorotoluene	ND		500	422		ug/L		84	67 - 138	5	17
4-Chlorotoluene	ND		500	431		ug/L		86	69 - 138	5	18
1,2-Dibromo-3-chloropropane	ND		500	342		ug/L		68	52 - 126	8	24
1,2-Dibromoethane (EDB)	ND		500	450		ug/L		90	75 - 137	11	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6162-MSD1
Matrix: Water
Analysis Batch: U019074

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6162_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		500	490		ug/L		98	58 - 140	12	16
1,4-Dichlorobenzene	ND		500	464		ug/L		93	78 - 126	11	15
1,3-Dichlorobenzene	ND		500	459		ug/L		92	77 - 131	9	15
1,2-Dichlorobenzene	ND		500	435		ug/L		87	79 - 128	11	15
Dichlorodifluoromethane	ND		500	398		ug/L		80	40 - 127	12	18
1,1-Dichloroethane	407		500	860		ug/L		91	71 - 139	8	17
1,2-Dichloroethane	ND		500	492		ug/L		98	64 - 136	12	17
cis-1,2-Dichloroethene	27.5		500	504	R	ug/L		95	68 - 138	18	17
1,1-Dichloroethene	67.2		500	560		ug/L		99	70 - 142	11	17
trans-1,2-Dichloroethene	ND		500	476		ug/L		95	66 - 143	11	16
1,3-Dichloropropane	ND		500	447		ug/L		89	72 - 134	11	14
1,2-Dichloropropane	ND		500	433		ug/L		87	67 - 131	12	17
2,2-Dichloropropane	ND		500	367		ug/L		73	37 - 175	13	18
cis-1,3-Dichloropropene	ND		500	433		ug/L		87	71 - 141	10	15
trans-1,3-Dichloropropene	ND		500	320		ug/L		64	59 - 135	12	14
1,1-Dichloropropene	ND		500	494		ug/L		99	76 - 139	12	17
Ethylbenzene	ND		500	456		ug/L		91	79 - 139	11	15
Hexachlorobutadiene	ND		500	454		ug/L		91	45 - 155	4	23
2-Hexanone	ND		2500	2060		ug/L		82	50 - 150	9	15
Isopropylbenzene	ND		500	503		ug/L		101	80 - 153	9	16
p-Isopropyltoluene	ND		500	435		ug/L		87	71 - 137	9	16
Methyl tert-Butyl Ether	ND		500	361		ug/L		72	66 - 141	12	16
Methylene Chloride	ND		500	441		ug/L		88	64 - 139	11	17
4-Methyl-2-pentanone	ND		2500	2080		ug/L		83	50 - 147	10	17
Naphthalene	ND		500	409		ug/L		82	55 - 140	9	26
n-Propylbenzene	ND		500	434		ug/L		87	69 - 142	5	17
Styrene	ND		500	454		ug/L		91	61 - 148	10	24
1,1,1,2-Tetrachloroethane	ND		500	444		ug/L		89	73 - 141	11	16
1,1,2,2-Tetrachloroethane	ND		500	432		ug/L		86	56 - 143	4	20
Tetrachloroethene	15.5		500	508		ug/L		98	72 - 145	10	16
Toluene	ND		500	459		ug/L		92	75 - 136	11	15
1,2,3-Trichlorobenzene	ND		500	446		ug/L		89	55 - 138	6	25
1,2,4-Trichlorobenzene	ND		500	437		ug/L		87	60 - 136	0.1	19
1,1,2-Trichloroethane	ND		500	459		ug/L		92	74 - 134	10	15
1,1,1-Trichloroethane	132		500	640		ug/L		102	76 - 149	10	17
Trichloroethene	22.5		500	528		ug/L		101	73 - 144	12	17
Trichlorofluoromethane	ND		500	519		ug/L		104	58 - 139	12	18
1,2,3-Trichloropropane	ND		500	415		ug/L		83	53 - 144	5	19
1,3,5-Trimethylbenzene	ND		500	431		ug/L		86	69 - 139	4	17
1,2,4-Trimethylbenzene	ND		500	423		ug/L		85	69 - 136	4	16
Vinyl chloride	ND		500	439		ug/L		88	56 - 129	12	17
Xylenes, total	ND		1500	1360		ug/L		90	74 - 141	10	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*70 - 130*
Dibromofluoromethane	*107*		*70 - 130*
Toluene-d8	*96*		*70 - 130*
4-Bromofluorobenzene	*89*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-BLK1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Benzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Bromobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Bromochloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Bromodichloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Bromoform	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Bromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
2-Butanone	ND		50.0		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
n-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Carbon disulfide	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Chlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Chloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Chloroform	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Chloromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Dibromomethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Ethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
2-Hexanone	ND		10.0		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Isopropylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Methylene Chloride	ND		5.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Naphthalene	ND		5.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
n-Propylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Styrene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-BLK1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Tetrachloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Toluene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Trichloroethene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Vinyl chloride	ND		1.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00
Xylenes, total	ND		3.00		ug/L		10/26/11 17:29	10/27/11 22:20	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*104*		*70 - 130*	*10/26/11 17:29*	*10/27/11 22:20*	*1.00*
Dibromofluoromethane	*107*		*70 - 130*	*10/26/11 17:29*	*10/27/11 22:20*	*1.00*
Toluene-d8	*94*		*70 - 130*	*10/26/11 17:29*	*10/27/11 22:20*	*1.00*
4-Bromofluorobenzene	*92*		*70 - 130*	*10/26/11 17:29*	*10/27/11 22:20*	*1.00*

Lab Sample ID: 11J6267-BS1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	130		ug/L		130	54 - 145
Benzene	20.0	22.4		ug/L		112	80 - 121
Bromobenzene	20.0	18.6		ug/L		93	68 - 130
Bromochloromethane	20.0	24.1		ug/L		120	78 - 129
Bromodichloromethane	20.0	22.8		ug/L		114	75 - 129
Bromoform	20.0	19.6		ug/L		98	46 - 145
Bromomethane	20.0	18.0		ug/L		90	41 - 150
2-Butanone	100	117		ug/L		117	62 - 133
sec-Butylbenzene	20.0	19.6		ug/L		98	76 - 128
n-Butylbenzene	20.0	18.6		ug/L		93	68 - 132
tert-Butylbenzene	20.0	19.7		ug/L		98	76 - 126
Carbon disulfide	20.0	21.2		ug/L		106	77 - 126
Carbon Tetrachloride	20.0	22.6		ug/L		113	64 - 147
Chlorobenzene	20.0	21.8		ug/L		109	80 - 120
Chlorodibromomethane	20.0	19.6		ug/L		98	69 - 133
Chloroethane	20.0	17.7		ug/L		89	72 - 120
Chloroform	20.0	23.0		ug/L		115	73 - 129
Chloromethane	20.0	6.45		ug/L		32	12 - 150
2-Chlorotoluene	20.0	18.9		ug/L		95	75 - 126
4-Chlorotoluene	20.0	19.6		ug/L		98	75 - 130
1,2-Dibromo-3-chloropropane	20.0	16.2		ug/L		81	54 - 125
1,2-Dibromoethane (EDB)	20.0	21.2		ug/L		106	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-BS1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	20.0	22.7		ug/L		114	71 - 125
1,4-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 120
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 122
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 121
Dichlorodifluoromethane	20.0	18.1		ug/L		91	37 - 127
1,1-Dichloroethane	20.0	22.5		ug/L		112	78 - 125
1,2-Dichloroethane	20.0	23.4		ug/L		117	77 - 121
cis-1,2-Dichloroethene	20.0	22.0		ug/L		110	76 - 125
1,1-Dichloroethene	20.0	22.2		ug/L		111	79 - 124
trans-1,2-Dichloroethene	20.0	22.3		ug/L		112	79 - 126
1,3-Dichloropropane	20.0	20.8		ug/L		104	80 - 125
1,2-Dichloropropane	20.0	20.0		ug/L		100	75 - 120
2,2-Dichloropropane	20.0	15.5		ug/L		77	43 - 161
cis-1,3-Dichloropropene	20.0	18.3		ug/L		91	74 - 140
trans-1,3-Dichloropropene	20.0	13.8		ug/L		69	63 - 134
1,1-Dichloropropene	20.0	22.2		ug/L		111	80 - 122
Ethylbenzene	20.0	20.5		ug/L		102	80 - 130
Hexachlorobutadiene	20.0	19.7		ug/L		99	49 - 146
2-Hexanone	100	96.7		ug/L		97	60 - 142
Isopropylbenzene	20.0	22.1		ug/L		110	80 - 141
p-Isopropyltoluene	20.0	19.1		ug/L		96	75 - 128
Methyl tert-Butyl Ether	20.0	18.1		ug/L		91	72 - 133
Methylene Chloride	20.0	21.4		ug/L		107	79 - 123
4-Methyl-2-pentanone	100	94.6		ug/L		95	60 - 137
Naphthalene	20.0	18.1		ug/L		90	62 - 138
n-Propylbenzene	20.0	19.4		ug/L		97	75 - 129
Styrene	20.0	20.5		ug/L		103	80 - 127
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	74 - 135
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	69 - 131
Tetrachloroethene	20.0	22.0		ug/L		110	80 - 126
Toluene	20.0	20.5		ug/L		102	80 - 126
1,2,3-Trichlorobenzene	20.0	20.1		ug/L		100	62 - 133
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	63 - 133
1,1,2-Trichloroethane	20.0	21.5		ug/L		108	80 - 124
1,1,1-Trichloroethane	20.0	22.1		ug/L		110	78 - 135
Trichloroethene	20.0	22.8		ug/L		114	80 - 123
Trichlorofluoromethane	20.0	20.5		ug/L		103	65 - 124
1,2,3-Trichloropropane	20.0	20.1		ug/L		101	70 - 131
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	77 - 127
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	77 - 126
Vinyl chloride	20.0	18.1		ug/L		91	68 - 120
Xylenes, total	60.0	62.1		ug/L		103	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*87*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-MS1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250	234		ug/L		94	45 - 141
Benzene	ND		50.0	50.7		ug/L		101	75 - 133
Bromobenzene	ND		50.0	44.0		ug/L		88	60 - 138
Bromochloromethane	ND		50.0	56.2		ug/L		112	67 - 139
Bromodichloromethane	ND		50.0	55.8		ug/L		112	70 - 140
Bromoform	ND		50.0	47.2		ug/L		94	42 - 147
Bromomethane	ND		50.0	50.9		ug/L		102	16 - 163
2-Butanone	ND		250	253		ug/L		101	50 - 138
sec-Butylbenzene	ND		50.0	48.8		ug/L		98	73 - 138
n-Butylbenzene	ND		50.0	33.6		ug/L		67	66 - 141
tert-Butylbenzene	ND		50.0	49.3		ug/L		99	70 - 138
Carbon disulfide	ND		50.0	45.5		ug/L		91	48 - 152
Carbon Tetrachloride	ND		50.0	54.2		ug/L		108	62 - 164
Chlorobenzene	ND		50.0	49.2		ug/L		98	80 - 129
Chlorodibromomethane	ND		50.0	46.2		ug/L		92	66 - 140
Chloroethane	ND		50.0	46.0		ug/L		92	58 - 137
Chloroform	ND		50.0	53.6		ug/L		107	66 - 138
Chloromethane	ND		50.0	28.8		ug/L		58	10 - 169
2-Chlorotoluene	ND		50.0	45.6		ug/L		91	67 - 138
4-Chlorotoluene	ND		50.0	46.4		ug/L		93	69 - 138
1,2-Dibromo-3-chloropropane	ND		50.0	44.2		ug/L		88	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	48.7		ug/L		97	75 - 137
Dibromomethane	ND		50.0	52.7		ug/L		105	58 - 140
1,4-Dichlorobenzene	ND		50.0	51.4		ug/L		103	78 - 126
1,3-Dichlorobenzene	ND		50.0	50.1		ug/L		100	77 - 131
1,2-Dichlorobenzene	ND		50.0	36.4	M8	ug/L		73	79 - 128
Dichlorodifluoromethane	ND		50.0	39.1		ug/L		78	40 - 127
1,1-Dichloroethane	ND		50.0	51.8		ug/L		104	71 - 139
1,2-Dichloroethane	ND		50.0	52.1		ug/L		104	64 - 136
cis-1,2-Dichloroethene	ND		50.0	50.0		ug/L		100	68 - 138
1,1-Dichloroethene	ND		50.0	53.6		ug/L		107	70 - 142
trans-1,2-Dichloroethene	ND		50.0	50.3		ug/L		101	66 - 143
1,3-Dichloropropane	ND		50.0	47.4		ug/L		95	72 - 134
1,2-Dichloropropane	ND		50.0	46.9		ug/L		94	67 - 131
2,2-Dichloropropane	ND		50.0	40.7		ug/L		81	37 - 175
cis-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	71 - 141
trans-1,3-Dichloropropene	ND		50.0	33.3		ug/L		67	59 - 135
1,1-Dichloropropene	ND		50.0	53.1		ug/L		106	76 - 139
Ethylbenzene	ND		50.0	47.2		ug/L		94	79 - 139
Hexachlorobutadiene	ND		50.0	50.2		ug/L		100	45 - 155
2-Hexanone	ND		250	256		ug/L		102	50 - 150
Isopropylbenzene	ND		50.0	52.6		ug/L		105	80 - 153
p-Isopropyltoluene	ND		50.0	48.3		ug/L		97	71 - 137
Methyl tert-Butyl Ether	ND		50.0	42.3		ug/L		85	66 - 141
Methylene Chloride	ND		50.0	45.5		ug/L		91	64 - 139
4-Methyl-2-pentanone	ND		250	247		ug/L		99	50 - 147
Naphthalene	ND		50.0	54.1		ug/L		108	55 - 140
n-Propylbenzene	ND		50.0	46.6		ug/L		93	69 - 142
Styrene	ND		50.0	48.3		ug/L		97	61 - 148

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-MS1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	47.0		ug/L		94	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	49.1		ug/L		98	56 - 143
Tetrachloroethene	ND		50.0	51.3		ug/L		103	72 - 145
Toluene	ND		50.0	46.7		ug/L		93	75 - 136
1,2,3-Trichlorobenzene	ND		50.0	53.4		ug/L		107	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	50.9		ug/L		102	60 - 136
1,1,2-Trichloroethane	ND		50.0	48.4		ug/L		97	74 - 134
1,1,1-Trichloroethane	ND		50.0	53.5		ug/L		107	76 - 149
Trichloroethene	4.75		50.0	60.3		ug/L		111	73 - 144
Trichlorofluoromethane	ND		50.0	54.7		ug/L		109	58 - 139
1,2,3-Trichloropropane	ND		50.0	47.8		ug/L		96	53 - 144
1,3,5-Trimethylbenzene	ND		50.0	45.9		ug/L		92	69 - 139
1,2,4-Trimethylbenzene	ND		50.0	45.8		ug/L		92	69 - 136
Vinyl chloride	ND		50.0	43.1		ug/L		86	56 - 129
Xylenes, total	ND		150	140		ug/L		93	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*99*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*92*		*70 - 130*
4-Bromofluorobenzene	*90*		*70 - 130*

Lab Sample ID: 11J6267-MSD1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	230		ug/L		92	45 - 141	2	21
Benzene	ND		50.0	50.9		ug/L		102	75 - 133	0.3	17
Bromobenzene	ND		50.0	44.2		ug/L		88	60 - 138	0.5	20
Bromochloromethane	ND		50.0	55.3		ug/L		111	67 - 139	2	17
Bromodichloromethane	ND		50.0	55.8		ug/L		112	70 - 140	0.09	18
Bromoform	ND		50.0	47.5		ug/L		95	42 - 147	0.5	16
Bromomethane	ND		50.0	54.8		ug/L		110	16 - 163	7	50
2-Butanone	ND		250	261		ug/L		104	50 - 138	3	19
sec-Butylbenzene	ND		50.0	49.4		ug/L		99	73 - 138	1	16
n-Butylbenzene	ND		50.0	49.2	R	ug/L		98	66 - 141	38	18
tert-Butylbenzene	ND		50.0	49.4		ug/L		99	70 - 138	0.2	16
Carbon disulfide	ND		50.0	45.6		ug/L		91	48 - 152	0.2	21
Carbon Tetrachloride	ND		50.0	54.5		ug/L		109	62 - 164	0.6	19
Chlorobenzene	ND		50.0	50.2		ug/L		100	80 - 129	2	14
Chlorodibromomethane	ND		50.0	46.4		ug/L		93	66 - 140	0.3	15
Chloroethane	ND		50.0	45.6		ug/L		91	58 - 137	0.9	20
Chloroform	ND		50.0	54.0		ug/L		108	66 - 138	0.8	18
Chloromethane	ND		50.0	28.2		ug/L		56	10 - 169	2	31
2-Chlorotoluene	ND		50.0	45.7		ug/L		91	67 - 138	0.3	17
4-Chlorotoluene	ND		50.0	46.7		ug/L		93	69 - 138	0.7	18
1,2-Dibromo-3-chloropropane	ND		50.0	45.1		ug/L		90	52 - 126	2	24
1,2-Dibromoethane (EDB)	ND		50.0	49.6		ug/L		99	75 - 137	2	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6267-MSD1
Matrix: Water
Analysis Batch: U019076

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6267_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		50.0	53.3		ug/L		107	58 - 140	1	16
1,4-Dichlorobenzene	ND		50.0	52.0		ug/L		104	78 - 126	1	15
1,3-Dichlorobenzene	ND		50.0	50.8		ug/L		102	77 - 131	1	15
1,2-Dichlorobenzene	ND		50.0	48.7	R	ug/L		97	79 - 128	29	15
Dichlorodifluoromethane	ND		50.0	39.4		ug/L		79	40 - 127	0.7	18
1,1-Dichloroethane	ND		50.0	52.0		ug/L		104	71 - 139	0.5	17
1,2-Dichloroethane	ND		50.0	52.0		ug/L		104	64 - 136	0.3	17
cis-1,2-Dichloroethene	ND		50.0	50.1		ug/L		100	68 - 138	0.3	17
1,1-Dichloroethene	ND		50.0	54.3		ug/L		109	70 - 142	1	17
trans-1,2-Dichloroethene	ND		50.0	51.7		ug/L		103	66 - 143	3	16
1,3-Dichloropropane	ND		50.0	48.9		ug/L		98	72 - 134	3	14
1,2-Dichloropropane	ND		50.0	47.5		ug/L		95	67 - 131	1	17
2,2-Dichloropropane	ND		50.0	40.7		ug/L		81	37 - 175	0.1	18
cis-1,3-Dichloropropene	ND		50.0	46.1		ug/L		92	71 - 141	1	15
trans-1,3-Dichloropropene	ND		50.0	34.4		ug/L		69	59 - 135	3	14
1,1-Dichloropropene	ND		50.0	53.0		ug/L		106	76 - 139	0.08	17
Ethylbenzene	ND		50.0	48.5		ug/L		97	79 - 139	3	15
Hexachlorobutadiene	ND		50.0	53.5		ug/L		107	45 - 155	6	23
2-Hexanone	ND		250	268		ug/L		107	50 - 150	5	15
Isopropylbenzene	ND		50.0	54.0		ug/L		108	80 - 153	3	16
p-Isopropyltoluene	ND		50.0	48.7		ug/L		97	71 - 137	0.7	16
Methyl tert-Butyl Ether	ND		50.0	42.4		ug/L		85	66 - 141	0.4	16
Methylene Chloride	ND		50.0	45.4		ug/L		91	64 - 139	0.1	17
4-Methyl-2-pentanone	ND		250	255		ug/L		102	50 - 147	3	17
Naphthalene	ND		50.0	57.4		ug/L		115	55 - 140	6	26
n-Propylbenzene	ND		50.0	46.9		ug/L		94	69 - 142	0.6	17
Styrene	ND		50.0	49.6		ug/L		99	61 - 148	3	24
1,1,1,2-Tetrachloroethane	ND		50.0	48.1		ug/L		96	73 - 141	2	16
1,1,2,2-Tetrachloroethane	ND		50.0	49.5		ug/L		99	56 - 143	0.8	20
Tetrachloroethene	ND		50.0	52.5		ug/L		105	72 - 145	2	16
Toluene	ND		50.0	47.4		ug/L		95	75 - 136	2	15
1,2,3-Trichlorobenzene	ND		50.0	56.7		ug/L		113	55 - 138	6	25
1,2,4-Trichlorobenzene	ND		50.0	53.3		ug/L		107	60 - 136	5	19
1,1,2-Trichloroethane	ND		50.0	50.1		ug/L		100	74 - 134	4	15
1,1,1-Trichloroethane	ND		50.0	54.1		ug/L		108	76 - 149	1	17
Trichloroethene	4.75		50.0	60.9		ug/L		112	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	55.1		ug/L		110	58 - 139	0.7	18
1,2,3-Trichloropropane	ND		50.0	47.2		ug/L		94	53 - 144	1	19
1,3,5-Trimethylbenzene	ND		50.0	46.5		ug/L		93	69 - 139	1	17
1,2,4-Trimethylbenzene	ND		50.0	46.1		ug/L		92	69 - 136	0.7	16
Vinyl chloride	ND		50.0	43.6		ug/L		87	56 - 129	1	17
Xylenes, total	ND		150	143		ug/L		95	74 - 141	2	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*100*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*93*		*70 - 130*
4-Bromofluorobenzene	*89*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-BLK1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Benzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Bromobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Bromochloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Bromodichloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Bromoform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Bromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
2-Butanone	ND		50.0		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
n-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Carbon disulfide	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Chlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Chloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Chloroform	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Chloromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Dibromomethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Ethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
2-Hexanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Isopropylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Methylene Chloride	ND		5.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Naphthalene	ND		5.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
n-Propylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Styrene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-BLK1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Tetrachloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Toluene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Trichloroethene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Vinyl chloride	ND		1.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00
Xylenes, total	ND		3.00		ug/L		10/29/11 09:39	10/29/11 11:21	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*10/29/11 09:39*	*10/29/11 11:21*	*1.00*
Dibromofluoromethane	*107*		*70 - 130*	*10/29/11 09:39*	*10/29/11 11:21*	*1.00*
Toluene-d8	*89*		*70 - 130*	*10/29/11 09:39*	*10/29/11 11:21*	*1.00*
4-Bromofluorobenzene	*90*		*70 - 130*	*10/29/11 09:39*	*10/29/11 11:21*	*1.00*

Lab Sample ID: 11J6327-BS1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	102		ug/L		102	54 - 145
Benzene	20.0	20.6		ug/L		103	80 - 121
Bromobenzene	20.0	18.2		ug/L		91	68 - 130
Bromochloromethane	20.0	22.9		ug/L		114	78 - 129
Bromodichloromethane	20.0	21.1		ug/L		106	75 - 129
Bromoform	20.0	19.2		ug/L		96	46 - 145
Bromomethane	20.0	18.9		ug/L		95	41 - 150
2-Butanone	100	102		ug/L		102	62 - 133
sec-Butylbenzene	20.0	19.0		ug/L		95	76 - 128
n-Butylbenzene	20.0	18.5		ug/L		92	68 - 132
tert-Butylbenzene	20.0	19.5		ug/L		98	76 - 126
Carbon disulfide	20.0	18.8		ug/L		94	77 - 126
Carbon Tetrachloride	20.0	20.7		ug/L		104	64 - 147
Chlorobenzene	20.0	20.8		ug/L		104	80 - 120
Chlorodibromomethane	20.0	18.6		ug/L		93	69 - 133
Chloroethane	20.0	14.9		ug/L		74	72 - 120
Chloroform	20.0	21.4		ug/L		107	73 - 129
Chloromethane	20.0	10.2		ug/L		51	12 - 150
2-Chlorotoluene	20.0	18.4		ug/L		92	75 - 126
4-Chlorotoluene	20.0	19.0		ug/L		95	75 - 130
1,2-Dibromo-3-chloropropane	20.0	17.0		ug/L		85	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.0		ug/L		100	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-BS1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	20.0	21.4		ug/L		107	71 - 125
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 120
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 122
1,2-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 121
Dichlorodifluoromethane	20.0	14.5		ug/L		72	37 - 127
1,1-Dichloroethane	20.0	19.7		ug/L		99	78 - 125
1,2-Dichloroethane	20.0	20.9		ug/L		105	77 - 121
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	76 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	79 - 124
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	79 - 126
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 125
1,2-Dichloropropane	20.0	18.9		ug/L		95	75 - 120
2,2-Dichloropropane	20.0	14.1		ug/L		71	43 - 161
cis-1,3-Dichloropropene	20.0	17.4		ug/L		87	74 - 140
trans-1,3-Dichloropropene	20.0	12.9		ug/L		65	63 - 134
1,1-Dichloropropene	20.0	20.3		ug/L		102	80 - 122
Ethylbenzene	20.0	19.5		ug/L		97	80 - 130
Hexachlorobutadiene	20.0	19.5		ug/L		98	49 - 146
2-Hexanone	100	89.2		ug/L		89	60 - 142
Isopropylbenzene	20.0	21.4		ug/L		107	80 - 141
p-Isopropyltoluene	20.0	18.9		ug/L		94	75 - 128
Methyl tert-Butyl Ether	20.0	16.0		ug/L		80	72 - 133
Methylene Chloride	20.0	19.1		ug/L		96	79 - 123
4-Methyl-2-pentanone	100	86.0		ug/L		86	60 - 137
Naphthalene	20.0	20.5		ug/L		102	62 - 138
n-Propylbenzene	20.0	18.8		ug/L		94	75 - 129
Styrene	20.0	19.8		ug/L		99	80 - 127
1,1,1,2-Tetrachloroethane	20.0	19.1		ug/L		95	74 - 135
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	69 - 131
Tetrachloroethene	20.0	21.3		ug/L		107	80 - 126
Toluene	20.0	19.6		ug/L		98	80 - 126
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	62 - 133
1,2,4-Trichlorobenzene	20.0	19.8		ug/L		99	63 - 133
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	80 - 124
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	78 - 135
Trichloroethene	20.0	21.9		ug/L		110	80 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		93	65 - 124
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	70 - 131
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	77 - 127
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	77 - 126
Vinyl chloride	20.0	15.2		ug/L		76	68 - 120
Xylenes, total	60.0	59.3		ug/L		99	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*70 - 130*
Dibromofluoromethane	*105*		*70 - 130*
Toluene-d8	*93*		*70 - 130*
4-Bromofluorobenzene	*91*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-MS1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		1250000	1050000		ug/L		84	45 - 141
Benzene	ND		250000	238000		ug/L		95	75 - 133
Bromobenzene	ND		250000	206000		ug/L		82	60 - 138
Bromochloromethane	ND		250000	261000		ug/L		104	67 - 139
Bromodichloromethane	ND		250000	270000		ug/L		108	70 - 140
Bromoform	ND		250000	226000		ug/L		91	42 - 147
Bromomethane	ND		250000	226000		ug/L		90	16 - 163
2-Butanone	ND		1250000	1160000		ug/L		92	50 - 138
sec-Butylbenzene	ND		250000	234000		ug/L		94	73 - 138
n-Butylbenzene	ND		250000	224000		ug/L		89	66 - 141
tert-Butylbenzene	ND		250000	235000		ug/L		94	70 - 138
Carbon disulfide	ND		250000	184000		ug/L		73	48 - 152
Carbon Tetrachloride	ND		250000	256000		ug/L		103	62 - 164
Chlorobenzene	ND		250000	240000		ug/L		96	80 - 129
Chlorodibromomethane	ND		250000	229000		ug/L		91	66 - 140
Chloroethane	ND		250000	204000		ug/L		81	58 - 137
Chloroform	ND		250000	256000		ug/L		103	66 - 138
Chloromethane	ND		250000	124000		ug/L		50	10 - 169
2-Chlorotoluene	ND		250000	218000		ug/L		87	67 - 138
4-Chlorotoluene	ND		250000	221000		ug/L		88	69 - 138
1,2-Dibromo-3-chloropropane	ND		250000	180000		ug/L		72	52 - 126
1,2-Dibromoethane (EDB)	ND		250000	232000		ug/L		93	75 - 137
Dibromomethane	ND		250000	249000		ug/L		100	58 - 140
1,4-Dichlorobenzene	ND		250000	245000		ug/L		98	78 - 126
1,3-Dichlorobenzene	ND		250000	238000		ug/L		95	77 - 131
1,2-Dichlorobenzene	ND		250000	230000		ug/L		92	79 - 128
Dichlorodifluoromethane	ND		250000	167000		ug/L		67	40 - 127
1,1-Dichloroethane	ND		250000	244000		ug/L		98	71 - 139
1,2-Dichloroethane	ND		250000	246000		ug/L		98	64 - 136
cis-1,2-Dichloroethene	9750		250000	241000		ug/L		93	68 - 138
1,1-Dichloroethene	ND		250000	242000		ug/L		97	70 - 142
trans-1,2-Dichloroethene	ND		250000	226000		ug/L		90	66 - 143
1,3-Dichloropropane	ND		250000	231000		ug/L		92	72 - 134
1,2-Dichloropropane	ND		250000	221000		ug/L		88	67 - 131
2,2-Dichloropropane	ND		250000	161000		ug/L		64	37 - 175
cis-1,3-Dichloropropene	ND		250000	216000		ug/L		86	71 - 141
trans-1,3-Dichloropropene	ND		250000	158000		ug/L		63	59 - 135
1,1-Dichloropropene	ND		250000	239000		ug/L		95	76 - 139
Ethylbenzene	ND		250000	226000		ug/L		90	79 - 139
Hexachlorobutadiene	ND		250000	226000		ug/L		90	45 - 155
2-Hexanone	ND		1250000	1000000		ug/L		80	50 - 150
Isopropylbenzene	ND		250000	257000		ug/L		103	80 - 153
p-Isopropyltoluene	ND		250000	226000		ug/L		90	71 - 137
Methyl tert-Butyl Ether	ND		250000	169000		ug/L		68	66 - 141
Methylene Chloride	ND		250000	217000		ug/L		87	64 - 139
4-Methyl-2-pentanone	ND		1250000	1000000		ug/L		80	50 - 147
Naphthalene	ND		250000	234000		ug/L		94	55 - 140
n-Propylbenzene	ND		250000	221000		ug/L		88	69 - 142
Styrene	ND		250000	234000		ug/L		94	61 - 148

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-MS1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		250000	231000		ug/L		92	73 - 141
1,1,2,2-Tetrachloroethane	ND		250000	229000		ug/L		92	56 - 143
Tetrachloroethene	ND		250000	245000		ug/L		98	72 - 145
Toluene	ND		250000	225000		ug/L		90	75 - 136
1,2,3-Trichlorobenzene	ND		250000	251000		ug/L		100	55 - 138
1,2,4-Trichlorobenzene	ND		250000	233000		ug/L		93	60 - 136
1,1,2-Trichloroethane	ND		250000	239000		ug/L		96	74 - 134
1,1,1-Trichloroethane	ND		250000	248000		ug/L		99	76 - 149
Trichloroethene	385000		250000	651000		ug/L		106	73 - 144
Trichlorofluoromethane	ND		250000	251000		ug/L		101	58 - 139
1,2,3-Trichloropropane	ND		250000	221000		ug/L		89	53 - 144
1,3,5-Trimethylbenzene	ND		250000	219000		ug/L		88	69 - 139
1,2,4-Trimethylbenzene	ND		250000	217000		ug/L		87	69 - 136
Vinyl chloride	ND		250000	192000		ug/L		77	56 - 129
Xylenes, total	ND		750000	677000		ug/L		90	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*97*		*70 - 130*
Dibromofluoromethane	*109*		*70 - 130*
Toluene-d8	*93*		*70 - 130*
4-Bromofluorobenzene	*87*		*70 - 130*

Lab Sample ID: 11J6327-MSD1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		1250000	1080000		ug/L		86	45 - 141	2	21
Benzene	ND		250000	239000		ug/L		96	75 - 133	0.5	17
Bromobenzene	ND		250000	204000		ug/L		82	60 - 138	0.8	20
Bromochloromethane	ND		250000	261000		ug/L		104	67 - 139	0.1	17
Bromodichloromethane	ND		250000	264000		ug/L		106	70 - 140	2	18
Bromoform	ND		250000	223000		ug/L		89	42 - 147	2	16
Bromomethane	ND		250000	251000		ug/L		100	16 - 163	10	50
2-Butanone	ND		1250000	1150000		ug/L		92	50 - 138	0.8	19
sec-Butylbenzene	ND		250000	234000		ug/L		94	73 - 138	0.06	16
n-Butylbenzene	ND		250000	226000		ug/L		90	66 - 141	1	18
tert-Butylbenzene	ND		250000	236000		ug/L		95	70 - 138	0.7	16
Carbon disulfide	ND		250000	184000		ug/L		73	48 - 152	0.08	21
Carbon Tetrachloride	ND		250000	254000		ug/L		102	62 - 164	0.9	19
Chlorobenzene	ND		250000	239000		ug/L		96	80 - 129	0.7	14
Chlorodibromomethane	ND		250000	225000		ug/L		90	66 - 140	1	15
Chloroethane	ND		250000	213000		ug/L		85	58 - 137	5	20
Chloroform	ND		250000	254000		ug/L		102	66 - 138	0.7	18
Chloromethane	ND		250000	121000		ug/L		49	10 - 169	2	31
2-Chlorotoluene	ND		250000	217000		ug/L		87	67 - 138	0.5	17
4-Chlorotoluene	ND		250000	224000		ug/L		89	69 - 138	1	18
1,2-Dibromo-3-chloropropane	ND		250000	177000		ug/L		71	52 - 126	2	24
1,2-Dibromoethane (EDB)	ND		250000	232000		ug/L		93	75 - 137	0.1	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6327-MSD1
Matrix: Water
Analysis Batch: U019433

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6327_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		250000	245000		ug/L		98	58 - 140	1	16
1,4-Dichlorobenzene	ND		250000	246000		ug/L		98	78 - 126	0.7	15
1,3-Dichlorobenzene	ND		250000	238000		ug/L		95	77 - 131	0.2	15
1,2-Dichlorobenzene	ND		250000	234000		ug/L		93	79 - 128	1	15
Dichlorodifluoromethane	ND		250000	174000		ug/L		70	40 - 127	4	18
1,1-Dichloroethane	ND		250000	232000		ug/L		93	71 - 139	5	17
1,2-Dichloroethane	ND		250000	244000		ug/L		98	64 - 136	0.7	17
cis-1,2-Dichloroethene	9750		250000	241000		ug/L		93	68 - 138	0	17
1,1-Dichloroethene	ND		250000	239000		ug/L		96	70 - 142	1	17
trans-1,2-Dichloroethene	ND		250000	233000		ug/L		93	66 - 143	3	16
1,3-Dichloropropane	ND		250000	232000		ug/L		93	72 - 134	0.5	14
1,2-Dichloropropane	ND		250000	222000		ug/L		89	67 - 131	0.2	17
2,2-Dichloropropane	ND		250000	165000		ug/L		66	37 - 175	2	18
cis-1,3-Dichloropropene	ND		250000	219000		ug/L		88	71 - 141	2	15
trans-1,3-Dichloropropene	ND		250000	158000		ug/L		63	59 - 135	0.2	14
1,1-Dichloropropene	ND		250000	241000		ug/L		96	76 - 139	1	17
Ethylbenzene	ND		250000	226000		ug/L		91	79 - 139	0.1	15
Hexachlorobutadiene	ND		250000	239000		ug/L		95	45 - 155	5	23
2-Hexanone	ND		1250000	995000		ug/L		80	50 - 150	0.9	15
Isopropylbenzene	ND		250000	259000		ug/L		104	80 - 153	0.9	16
p-Isopropyltoluene	ND		250000	228000		ug/L		91	71 - 137	1	16
Methyl tert-Butyl Ether	ND		250000	170000		ug/L		68	66 - 141	0.6	16
Methylene Chloride	ND		250000	212000		ug/L		85	64 - 139	3	17
4-Methyl-2-pentanone	ND		1250000	987000		ug/L		79	50 - 147	2	17
Naphthalene	ND		250000	243000		ug/L		97	55 - 140	4	26
n-Propylbenzene	ND		250000	221000		ug/L		88	69 - 142	0.1	17
Styrene	ND		250000	237000		ug/L		95	61 - 148	1	24
1,1,1,2-Tetrachloroethane	ND		250000	234000		ug/L		94	73 - 141	1	16
1,1,2,2-Tetrachloroethane	ND		250000	218000		ug/L		87	56 - 143	5	20
Tetrachloroethene	ND		250000	245000		ug/L		98	72 - 145	0.2	16
Toluene	ND		250000	226000		ug/L		90	75 - 136	0.4	15
1,2,3-Trichlorobenzene	ND		250000	260000		ug/L		104	55 - 138	4	25
1,2,4-Trichlorobenzene	ND		250000	240000		ug/L		96	60 - 136	3	19
1,1,2-Trichloroethane	ND		250000	238000		ug/L		95	74 - 134	0.3	15
1,1,1-Trichloroethane	ND		250000	253000		ug/L		101	76 - 149	2	17
Trichloroethene	385000		250000	657000		ug/L		109	73 - 144	1	17
Trichlorofluoromethane	ND		250000	259000		ug/L		104	58 - 139	3	18
1,2,3-Trichloropropane	ND		250000	214000		ug/L		86	53 - 144	3	19
1,3,5-Trimethylbenzene	ND		250000	222000		ug/L		89	69 - 139	1	17
1,2,4-Trimethylbenzene	ND		250000	219000		ug/L		87	69 - 136	0.7	16
Vinyl chloride	ND		250000	197000		ug/L		79	56 - 129	3	17
Xylenes, total	ND		750000	689000		ug/L		92	74 - 141	2	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*87*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-BLK1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Benzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Bromobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Bromochloromethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Bromodichloromethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Bromoform	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Bromomethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
2-Butanone	ND		50.0		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
sec-Butylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
n-Butylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
tert-Butylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Carbon disulfide	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Carbon Tetrachloride	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Chlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Chlorodibromomethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Chloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Chloroform	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Chloromethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
2-Chlorotoluene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
4-Chlorotoluene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Dibromomethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1-Dichloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2-Dichloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1-Dichloroethene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,3-Dichloropropane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2-Dichloropropane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
2,2-Dichloropropane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1-Dichloropropene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Ethylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Hexachlorobutadiene	ND		2.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
2-Hexanone	ND		10.0		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Isopropylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
p-Isopropyltoluene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Methylene Chloride	ND		5.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Naphthalene	ND		5.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
n-Propylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Styrene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-BLK1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Tetrachloroethene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Toluene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Trichloroethene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Trichlorofluoromethane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Vinyl chloride	ND		1.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00
Xylenes, total	ND		3.00		ug/L		10/28/11 11:43	10/28/11 17:01	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*70 - 130*	*10/28/11 11:43*	*10/28/11 17:01*	*1.00*
Dibromofluoromethane	*108*		*70 - 130*	*10/28/11 11:43*	*10/28/11 17:01*	*1.00*
Toluene-d8	*90*		*70 - 130*	*10/28/11 11:43*	*10/28/11 17:01*	*1.00*
4-Bromofluorobenzene	*89*		*70 - 130*	*10/28/11 11:43*	*10/28/11 17:01*	*1.00*

Lab Sample ID: 11J6713-BS1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	110		ug/L		110	54 - 145
Benzene	20.0	21.7		ug/L		109	80 - 121
Bromobenzene	20.0	18.4		ug/L		92	68 - 130
Bromochloromethane	20.0	24.0		ug/L		120	78 - 129
Bromodichloromethane	20.0	22.5		ug/L		113	75 - 129
Bromoform	20.0	19.9		ug/L		100	46 - 145
Bromomethane	20.0	20.9		ug/L		105	41 - 150
2-Butanone	100	109		ug/L		109	62 - 133
sec-Butylbenzene	20.0	19.7		ug/L		98	76 - 128
n-Butylbenzene	20.0	19.0		ug/L		95	68 - 132
tert-Butylbenzene	20.0	19.8		ug/L		99	76 - 126
Carbon disulfide	20.0	20.3		ug/L		102	77 - 126
Carbon Tetrachloride	20.0	21.6		ug/L		108	64 - 147
Chlorobenzene	20.0	21.6		ug/L		108	80 - 120
Chlorodibromomethane	20.0	19.6		ug/L		98	69 - 133
Chloroethane	20.0	17.0		ug/L		85	72 - 120
Chloroform	20.0	22.3		ug/L		112	73 - 129
Chloromethane	20.0	12.4		ug/L		62	12 - 150
2-Chlorotoluene	20.0	19.2		ug/L		96	75 - 126
4-Chlorotoluene	20.0	19.6		ug/L		98	75 - 130
1,2-Dibromo-3-chloropropane	20.0	16.1		ug/L		81	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-BS1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	20.0	22.2		ug/L		111	71 - 125
1,4-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 122
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 121
Dichlorodifluoromethane	20.0	16.7		ug/L		83	37 - 127
1,1-Dichloroethane	20.0	21.6		ug/L		108	78 - 125
1,2-Dichloroethane	20.0	22.0		ug/L		110	77 - 121
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	76 - 125
1,1-Dichloroethene	20.0	22.6		ug/L		113	79 - 124
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	79 - 126
1,3-Dichloropropane	20.0	20.6		ug/L		103	80 - 125
1,2-Dichloropropane	20.0	19.8		ug/L		99	75 - 120
2,2-Dichloropropane	20.0	15.0		ug/L		75	43 - 161
cis-1,3-Dichloropropene	20.0	18.0		ug/L		90	74 - 140
trans-1,3-Dichloropropene	20.0	13.1		ug/L		65	63 - 134
1,1-Dichloropropene	20.0	22.0		ug/L		110	80 - 122
Ethylbenzene	20.0	20.5		ug/L		103	80 - 130
Hexachlorobutadiene	20.0	19.8		ug/L		99	49 - 146
2-Hexanone	100	96.3		ug/L		96	60 - 142
Isopropylbenzene	20.0	22.5		ug/L		112	80 - 141
p-Isopropyltoluene	20.0	19.2		ug/L		96	75 - 128
Methyl tert-Butyl Ether	20.0	16.6		ug/L		83	72 - 133
Methylene Chloride	20.0	20.8		ug/L		104	79 - 123
4-Methyl-2-pentanone	100	88.3		ug/L		88	60 - 137
Naphthalene	20.0	19.6		ug/L		98	62 - 138
n-Propylbenzene	20.0	19.5		ug/L		98	75 - 129
Styrene	20.0	20.8		ug/L		104	80 - 127
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		98	74 - 135
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	69 - 131
Tetrachloroethene	20.0	22.2		ug/L		111	80 - 126
Toluene	20.0	20.2		ug/L		101	80 - 126
1,2,3-Trichlorobenzene	20.0	21.1		ug/L		106	62 - 133
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	63 - 133
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	80 - 124
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	78 - 135
Trichloroethene	20.0	24.6		ug/L		123	80 - 123
Trichlorofluoromethane	20.0	20.4		ug/L		102	65 - 124
1,2,3-Trichloropropane	20.0	18.8		ug/L		94	70 - 131
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	77 - 127
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		95	77 - 126
Vinyl chloride	20.0	17.2		ug/L		86	68 - 120
Xylenes, total	60.0	62.0		ug/L		103	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*100*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*90*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-MS1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		2500	1950		ug/L		78	45 - 141
Benzene	ND		500	480		ug/L		96	75 - 133
Bromobenzene	ND		500	402		ug/L		80	60 - 138
Bromochloromethane	ND		500	523		ug/L		105	67 - 139
Bromodichloromethane	ND		500	527		ug/L		105	70 - 140
Bromoform	ND		500	430		ug/L		86	42 - 147
Bromomethane	ND		500	459		ug/L		92	16 - 163
2-Butanone	ND		2500	2120		ug/L		85	50 - 138
sec-Butylbenzene	ND		500	449		ug/L		90	73 - 138
n-Butylbenzene	ND		500	429		ug/L		86	66 - 141
tert-Butylbenzene	ND		500	448		ug/L		90	70 - 138
Carbon disulfide	ND		500	427		ug/L		85	48 - 152
Carbon Tetrachloride	ND		500	514		ug/L		103	62 - 164
Chlorobenzene	ND		500	471		ug/L		94	80 - 129
Chlorodibromomethane	ND		500	435		ug/L		87	66 - 140
Chloroethane	ND		500	427		ug/L		85	58 - 137
Chloroform	ND		500	518		ug/L		104	66 - 138
Chloromethane	ND		500	249		ug/L		50	10 - 169
2-Chlorotoluene	ND		500	424		ug/L		85	67 - 138
4-Chlorotoluene	ND		500	435		ug/L		87	69 - 138
1,2-Dibromo-3-chloropropane	ND		500	368		ug/L		74	52 - 126
1,2-Dibromoethane (EDB)	ND		500	457		ug/L		91	75 - 137
Dibromomethane	ND		500	493		ug/L		99	58 - 140
1,4-Dichlorobenzene	ND		500	471		ug/L		94	78 - 126
1,3-Dichlorobenzene	ND		500	464		ug/L		93	77 - 131
1,2-Dichlorobenzene	ND		500	440		ug/L		88	79 - 128
Dichlorodifluoromethane	ND		500	349		ug/L		70	40 - 127
1,1-Dichloroethane	ND		500	491		ug/L		98	71 - 139
1,2-Dichloroethane	5.40		500	480		ug/L		95	64 - 136
cis-1,2-Dichloroethene	190		500	645		ug/L		91	68 - 138
1,1-Dichloroethene	ND		500	512		ug/L		102	70 - 142
trans-1,2-Dichloroethene	40.5		500	513		ug/L		95	66 - 143
1,3-Dichloropropane	ND		500	452		ug/L		90	72 - 134
1,2-Dichloropropane	ND		500	441		ug/L		88	67 - 131
2,2-Dichloropropane	ND		500	335		ug/L		67	37 - 175
cis-1,3-Dichloropropene	ND		500	428		ug/L		86	71 - 141
trans-1,3-Dichloropropene	ND		500	307		ug/L		61	59 - 135
1,1-Dichloropropene	ND		500	491		ug/L		98	76 - 139
Ethylbenzene	ND		500	456		ug/L		91	79 - 139
Hexachlorobutadiene	ND		500	427		ug/L		85	45 - 155
2-Hexanone	ND		2500	1910		ug/L		77	50 - 150
Isopropylbenzene	ND		500	508		ug/L		102	80 - 153
p-Isopropyltoluene	ND		500	436		ug/L		87	71 - 137
Methyl tert-Butyl Ether	ND		500	360		ug/L		72	66 - 141
Methylene Chloride	ND		500	437		ug/L		87	64 - 139
4-Methyl-2-pentanone	ND		2500	1920		ug/L		77	50 - 147
Naphthalene	ND		500	444		ug/L		89	55 - 140
n-Propylbenzene	ND		500	431		ug/L		86	69 - 142
Styrene	ND		500	459		ug/L		92	61 - 148

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-MS1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		500	451		ug/L		90	73 - 141
1,1,2,2-Tetrachloroethane	ND		500	432		ug/L		86	56 - 143
Tetrachloroethene	ND		500	487		ug/L		97	72 - 145
Toluene	ND		500	455		ug/L		91	75 - 136
1,2,3-Trichlorobenzene	ND		500	467		ug/L		93	55 - 138
1,2,4-Trichlorobenzene	ND		500	438		ug/L		88	60 - 136
1,1,2-Trichloroethane	ND		500	458		ug/L		92	74 - 134
1,1,1-Trichloroethane	ND		500	505		ug/L		101	76 - 149
Trichloroethene	569		500	1050		ug/L		96	73 - 144
Trichlorofluoromethane	ND		500	523		ug/L		105	58 - 139
1,2,3-Trichloropropane	ND		500	422		ug/L		84	53 - 144
1,3,5-Trimethylbenzene	ND		500	433		ug/L		87	69 - 139
1,2,4-Trimethylbenzene	ND		500	424		ug/L		85	69 - 136
Vinyl chloride	10.4		500	408		ug/L		80	56 - 129
Xylenes, total	ND		1500	1350		ug/L		90	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*98*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*93*		*70 - 130*
4-Bromofluorobenzene	*87*		*70 - 130*

Lab Sample ID: 11J6713-MSD1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		2500	2010		ug/L		80	45 - 141	3	21
Benzene	ND		500	498		ug/L		100	75 - 133	4	17
Bromobenzene	ND		500	426		ug/L		85	60 - 138	6	20
Bromochloromethane	ND		500	525		ug/L		105	67 - 139	0.4	17
Bromodichloromethane	ND		500	549		ug/L		110	70 - 140	4	18
Bromoform	ND		500	462		ug/L		92	42 - 147	7	16
Bromomethane	ND		500	485		ug/L		97	16 - 163	5	50
2-Butanone	ND		2500	2200		ug/L		88	50 - 138	4	19
sec-Butylbenzene	ND		500	482		ug/L		96	73 - 138	7	16
n-Butylbenzene	ND		500	463		ug/L		93	66 - 141	8	18
tert-Butylbenzene	ND		500	489		ug/L		98	70 - 138	9	16
Carbon disulfide	ND		500	438		ug/L		88	48 - 152	3	21
Carbon Tetrachloride	ND		500	520		ug/L		104	62 - 164	1	19
Chlorobenzene	ND		500	499		ug/L		100	80 - 129	6	14
Chlorodibromomethane	ND		500	466		ug/L		93	66 - 140	7	15
Chloroethane	ND		500	445		ug/L		89	58 - 137	4	20
Chloroform	ND		500	527		ug/L		105	66 - 138	2	18
Chloromethane	ND		500	259		ug/L		52	10 - 169	4	31
2-Chlorotoluene	ND		500	455		ug/L		91	67 - 138	7	17
4-Chlorotoluene	ND		500	460		ug/L		92	69 - 138	6	18
1,2-Dibromo-3-chloropropane	ND		500	367		ug/L		73	52 - 126	0.2	24
1,2-Dibromoethane (EDB)	ND		500	487		ug/L		97	75 - 137	6	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J6713-MSD1
Matrix: Water
Analysis Batch: U019102

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J6713_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		500	510		ug/L		102	58 - 140	3	16
1,4-Dichlorobenzene	ND		500	503		ug/L		101	78 - 126	7	15
1,3-Dichlorobenzene	ND		500	494		ug/L		99	77 - 131	6	15
1,2-Dichlorobenzene	ND		500	476		ug/L		95	79 - 128	8	15
Dichlorodifluoromethane	ND		500	359		ug/L		72	40 - 127	3	18
1,1-Dichloroethane	ND		500	497		ug/L		99	71 - 139	1	17
1,2-Dichloroethane	5.40		500	509		ug/L		101	64 - 136	6	17
cis-1,2-Dichloroethene	190		500	654		ug/L		93	68 - 138	1	17
1,1-Dichloroethene	ND		500	527		ug/L		105	70 - 142	3	17
trans-1,2-Dichloroethene	40.5		500	532		ug/L		98	66 - 143	4	16
1,3-Dichloropropane	ND		500	484		ug/L		97	72 - 134	7	14
1,2-Dichloropropane	ND		500	455		ug/L		91	67 - 131	3	17
2,2-Dichloropropane	ND		500	351		ug/L		70	37 - 175	5	18
cis-1,3-Dichloropropene	ND		500	459		ug/L		92	71 - 141	7	15
trans-1,3-Dichloropropene	ND		500	334		ug/L		67	59 - 135	8	14
1,1-Dichloropropene	ND		500	512		ug/L		102	76 - 139	4	17
Ethylbenzene	ND		500	482		ug/L		96	79 - 139	6	15
Hexachlorobutadiene	ND		500	476		ug/L		95	45 - 155	11	23
2-Hexanone	ND		2500	2020		ug/L		81	50 - 150	5	15
Isopropylbenzene	ND		500	538		ug/L		108	80 - 153	6	16
p-Isopropyltoluene	ND		500	468		ug/L		94	71 - 137	7	16
Methyl tert-Butyl Ether	ND		500	363		ug/L		73	66 - 141	0.8	16
Methylene Chloride	ND		500	450		ug/L		90	64 - 139	3	17
4-Methyl-2-pentanone	ND		2500	2040		ug/L		82	50 - 147	6	17
Naphthalene	ND		500	490		ug/L		98	55 - 140	10	26
n-Propylbenzene	ND		500	463		ug/L		93	69 - 142	7	17
Styrene	ND		500	498		ug/L		100	61 - 148	8	24
1,1,1,2-Tetrachloroethane	ND		500	483		ug/L		97	73 - 141	7	16
1,1,2,2-Tetrachloroethane	ND		500	457		ug/L		91	56 - 143	6	20
Tetrachloroethene	ND		500	518		ug/L		104	72 - 145	6	16
Toluene	ND		500	476		ug/L		95	75 - 136	5	15
1,2,3-Trichlorobenzene	ND		500	518		ug/L		104	55 - 138	10	25
1,2,4-Trichlorobenzene	ND		500	482		ug/L		96	60 - 136	9	19
1,1,2-Trichloroethane	ND		500	490		ug/L		98	74 - 134	7	15
1,1,1-Trichloroethane	ND		500	521		ug/L		104	76 - 149	3	17
Trichloroethene	569		500	1070		ug/L		99	73 - 144	2	17
Trichlorofluoromethane	ND		500	530		ug/L		106	58 - 139	1	18
1,2,3-Trichloropropane	ND		500	439		ug/L		88	53 - 144	4	19
1,3,5-Trimethylbenzene	ND		500	460		ug/L		92	69 - 139	6	17
1,2,4-Trimethylbenzene	ND		500	455		ug/L		91	69 - 136	7	16
Vinyl chloride	10.4		500	430		ug/L		84	56 - 129	5	17
Xylenes, total	ND		1500	1450		ug/L		97	74 - 141	7	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*98*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*94*		*70 - 130*
4-Bromofluorobenzene	*88*		*70 - 130*

GCMS Volatiles

Analysis Batch: U019074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6162-BLK1	Method Blank	Total	Water	SW846 8260B	11J6162_P
11J6162-BS1	Lab Control Sample	Total	Water	SW846 8260B	11J6162_P
11J6162-MS1	Matrix Spike	Total	Water	SW846 8260B	11J6162_P
11J6162-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11J6162_P
NUJ3354-09	TB-01-102511	Total	Ground Water	SW846 8260B	11J6162_P

Analysis Batch: U019076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6267-BLK1	Method Blank	Total	Water	SW846 8260B	11J6267_P
11J6267-BS1	Lab Control Sample	Total	Water	SW846 8260B	11J6267_P
11J6267-MS1	Matrix Spike	Total	Water	SW846 8260B	11J6267_P
11J6267-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11J6267_P
NUJ3354-01	MCA-5-102511	Total	Ground Water	SW846 8260B	11J6267_P
NUJ3354-02	M&A-104-102511	Total	Ground Water	SW846 8260B	11J6267_P
NUJ3354-04	M&A-112-102511	Total	Ground Water	SW846 8260B	11J6267_P

Analysis Batch: U019102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6713-BLK1	Method Blank	Total	Water	SW846 8260B	11J6713_P
11J6713-BS1	Lab Control Sample	Total	Water	SW846 8260B	11J6713_P
11J6713-MS1	Matrix Spike	Total	Water	SW846 8260B	11J6713_P
11J6713-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11J6713_P
NUJ3354-01 - RE1	MCA-5-102511	Total	Ground Water	SW846 8260B	11J6713_P
NUJ3354-01 - RE2	MCA-5-102511	Total	Ground Water	SW846 8260B	11J6713_P
NUJ3354-02 - RE1	M&A-104-102511	Total	Ground Water	SW846 8260B	11J6713_P
NUJ3354-02 - RE2	M&A-104-102511	Total	Ground Water	SW846 8260B	11J6713_P
NUJ3354-03 - RE2	M&A-111-102511	Total	Ground Water	SW846 8260B	11J6713_P
NUJ3354-04 - RE1	M&A-112-102511	Total	Ground Water	SW846 8260B	11J6713_P

Analysis Batch: U019433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6327-BLK1	Method Blank	Total	Water	SW846 8260B	11J6327_P
11J6327-BS1	Lab Control Sample	Total	Water	SW846 8260B	11J6327_P
11J6327-MS1	Matrix Spike	Total	Water	SW846 8260B	11J6327_P
11J6327-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	11J6327_P
NUJ3354-03 - RE3	M&A-111-102511	Total	Ground Water	SW846 8260B	11J6327_P
NUJ3354-05 - RE1	M&A-115-102411	Total	Ground Water	SW846 8260B	11J6327_P
NUJ3354-06 - RE1	M&A-116-102411	Total	Ground Water	SW846 8260B	11J6327_P
NUJ3354-07 - RE1	M&A-122-102511	Total	Ground Water	SW846 8260B	11J6327_P
NUJ3354-08 - RE1	M&A-126-102511	Total	Ground Water	SW846 8260B	11J6327_P

Prep Batch: 11J6162_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6162-BLK1	Method Blank	Total	Water	EPA 5030B	
11J6162-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11J6162-MS1	Matrix Spike	Total	Water	EPA 5030B	
11J6162-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUJ3354-09	TB-01-102511	Total	Ground Water	EPA 5030B	

Prep Batch: 11J6267_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6267-BLK1	Method Blank	Total	Water	EPA 5030B	

GCMS Volatiles (Continued)

Prep Batch: 11J6267_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6267-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11J6267-MS1	Matrix Spike	Total	Water	EPA 5030B	
11J6267-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUJ3354-01	MCA-5-102511	Total	Ground Water	EPA 5030B	
NUJ3354-02	M&A-104-102511	Total	Ground Water	EPA 5030B	
NUJ3354-04	M&A-112-102511	Total	Ground Water	EPA 5030B	

Prep Batch: 11J6327_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6327-BLK1	Method Blank	Total	Water	EPA 5030B	
11J6327-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11J6327-MS1	Matrix Spike	Total	Water	EPA 5030B	
11J6327-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUJ3354-03 - RE3	M&A-111-102511	Total	Ground Water	EPA 5030B	
NUJ3354-05 - RE1	M&A-115-102411	Total	Ground Water	EPA 5030B	
NUJ3354-06 - RE1	M&A-116-102411	Total	Ground Water	EPA 5030B	
NUJ3354-07 - RE1	M&A-122-102511	Total	Ground Water	EPA 5030B	
NUJ3354-08 - RE1	M&A-126-102511	Total	Ground Water	EPA 5030B	

Prep Batch: 11J6713_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J6713-BLK1	Method Blank	Total	Water	EPA 5030B	
11J6713-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11J6713-MS1	Matrix Spike	Total	Water	EPA 5030B	
11J6713-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NUJ3354-01 - RE1	MCA-5-102511	Total	Ground Water	EPA 5030B	
NUJ3354-01 - RE2	MCA-5-102511	Total	Ground Water	EPA 5030B	
NUJ3354-02 - RE1	M&A-104-102511	Total	Ground Water	EPA 5030B	
NUJ3354-02 - RE2	M&A-104-102511	Total	Ground Water	EPA 5030B	
NUJ3354-03 - RE2	M&A-111-102511	Total	Ground Water	EPA 5030B	
NUJ3354-04 - RE1	M&A-112-102511	Total	Ground Water	EPA 5030B	

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Client Sample ID: MCA-5-102511

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

Lab Sample ID: NUJ3354-01
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11J6267_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019076	10/28/11 01:44	JJR	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U019102	10/28/11 22:32	JJR	TAL NSH
Total	Prep	EPA 5030B	RE2	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	500	U019102	10/28/11 22:58	JJR	TAL NSH

Client Sample ID: M&A-104-102511

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

Lab Sample ID: NUJ3354-02
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11J6267_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019076	10/28/11 02:10	JJR	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	100	U019102	10/28/11 23:23	JJR	TAL NSH
Total	Prep	EPA 5030B	RE2	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	2000	U019102	10/28/11 23:49	JJR	TAL NSH

Client Sample ID: M&A-111-102511

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

Lab Sample ID: NUJ3354-03
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE2	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE2	10.0	U019102	10/28/11 20:25	JJR	TAL NSH
Total	Prep	EPA 5030B	RE3	1.00	11J6327_P	10/29/11 09:39	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE3	1.00	U019433	10/29/11 16:28	JJR	TAL NSH

Client Sample ID: M&A-112-102511

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

Lab Sample ID: NUJ3354-04
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11J6267_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019076	10/28/11 03:01	JJR	TAL NSH
Total	Prep	EPA 5030B	RE1	1.00	11J6713_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U019102	10/29/11 00:14	JJR	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Client Sample ID: M&A-115-102411 — **Lab Sample ID: NUJ3354-05**
Date Collected: 10/24/11 14:30 — 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 5030B	RE1	1.00	11J6327_P	10/29/11 09:39	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U019433	10/29/11 13:54	JJR	TAL NSH

Client Sample ID: M&A-116-102411 — **Lab Sample ID: NUJ3354-06**
Date Collected: 10/24/11 11:30 — 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 5030B	RE1	1.00	11J6327_P	10/29/11 09:39	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U019433	10/29/11 14:20	JJR	TAL NSH

Client Sample ID: M&A-122-102511 — **Lab Sample ID: NUJ3354-07**
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 5030B	RE1	1.00	11J6327_P	10/29/11 09:39	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U019433	10/29/11 14:45	JJR	TAL NSH

Client Sample ID: M&A-126-102511 — **Lab Sample ID: NUJ3354-08**
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 5030B	RE1	1.00	11J6327_P	10/29/11 09:39	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U019433	10/29/11 15:11	JJR	TAL NSH

Client Sample ID: TB-01-102511 — **Lab Sample ID: NUJ3354-09**
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 5030B		1.00	11J6162_P	10/26/11 17:29	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019074	10/27/11 15:32	JJR	TAL NSH

Laboratory References:

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

Method Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH

Protocol References:

Laboratory References:

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

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Certification Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.302

TestAmerica Job ID: NUJ3354

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
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER REC

NUJ3354

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) R

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) R

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) R

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

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

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)")

NUJ3354
11/09/11 23:59

Page 1 of 1

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: Christ Mabbett

TA Account #: 1408030 PO #: 4730
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.302
Facility ID: 1998002.302
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: 8260B Volatile Organics	RUSH TAT (Pre Schedule) *
1 MCA-5-102511	10/25/11	0730	3	X					X						X						X	
2 MCA-104-102511	10/25/11	1015	3	X					X						X						X	
3 MCA-111-102511	10/25/11	1730	3	X					X						X						X	
4 MCA-112-102511	10/25/11	1100	3	X					X						X						X	
5 MCA-115-102411	10/24/11	1430	3	X					X						X						X	
6 MCA-116-102411	10/24/11	1130	3	X					X						X						X	
7 MCA-122-102511	10/25/11	1200	3	X					X						X						X	
8 MCA-126-102511	10/25/11	0900	3	X					X						X						X	
9 TB-01-102511	10/25/11	1200	2	X					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 # 27058

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:	Time:	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: NWD3226
Client Project/Site: 1998002.311 HTB
Client Project Description: Bodycote 1998002.311 HTB

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

Attn: Christopher Mabbett

Authorized for release by:
5/10/2012 5:19:02 PM

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

LINKS

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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.

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Sample Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NWD3226-01	MCA-5-042412	Ground Water	04/24/12 16:00	04/26/12 08:20
NWD3226-02	M+A-104-042512	Ground Water	04/25/12 10:30	04/26/12 08:20
NWD3226-03	M+A-111-042412	Ground Water	04/24/12 15:20	04/26/12 08:20
NWD3226-04	M+A-115-042512	Ground Water	04/25/12 10:20	04/26/12 08:20
NWD3226-05	M+A-116-042412	Ground Water	04/24/12 14:40	04/26/12 08:20
NWD3226-06	M+A-112-042512	Ground Water	04/25/12 11:50	04/26/12 08:20
NWD3226-07	M+A-122-042512	Ground Water	04/25/12 09:00	04/26/12 08:20
NWD3226-08	M+A-126-042412	Ground Water	04/24/12 14:30	04/26/12 08:20
NWD3226-09	TB-02-042512	Water	04/25/12 12:00	04/26/12 08:20

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
B	Analyte was detected in the associated Method Blank.
PV	Acid preservation was indicated on the sample vial. However, a pH of <2 was not obtained.
RL1	Reporting limit raised due to sample matrix effects.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.

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
QC	Quality Control
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: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: MCA-5-042412
Date Collected: 04/24/12 16:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-01
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PV RL1	5000		ug/L		05/02/12 06:33	05/02/12 10:36	100
Benzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Bromobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Bromochloromethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Bromodichloromethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Bromoform	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Bromomethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
2-Butanone	ND	PV RL1	5000		ug/L		05/02/12 06:33	05/02/12 10:36	100
sec-Butylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
n-Butylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
tert-Butylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Carbon disulfide	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Carbon Tetrachloride	ND	RL1 PV	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Chlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Chlorodibromomethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Chloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Chloroform	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Chloromethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
2-Chlorotoluene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
4-Chlorotoluene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2-Dibromo-3-chloropropane	ND	PV RL1	1000		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2-Dibromoethane (EDB)	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Dibromomethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,4-Dichlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,3-Dichlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2-Dichlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Dichlorodifluoromethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1-Dichloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2-Dichloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1-Dichloroethene	225	PV	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
trans-1,2-Dichloroethene	684	PV	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,3-Dichloropropane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2-Dichloropropane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
2,2-Dichloropropane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
cis-1,3-Dichloropropene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
trans-1,3-Dichloropropene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1-Dichloropropene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Ethylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Hexachlorobutadiene	ND	PV RL1	200		ug/L		05/02/12 06:33	05/02/12 10:36	100
2-Hexanone	ND	RL1 PV	1000		ug/L		05/02/12 06:33	05/02/12 10:36	100
Isopropylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
p-Isopropyltoluene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Methyl tert-Butyl Ether	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Methylene Chloride	ND	PV RL1	500		ug/L		05/02/12 06:33	05/02/12 10:36	100
4-Methyl-2-pentanone	ND	PV RL1	1000		ug/L		05/02/12 06:33	05/02/12 10:36	100
Naphthalene	ND	PV RL1	500		ug/L		05/02/12 06:33	05/02/12 10:36	100
n-Propylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Styrene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1,1,2-Tetrachloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1,2,2-Tetrachloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Tetrachloroethene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100

Client Sample ID: MCA-5-042412
Date Collected: 04/24/12 16:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-01
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2,3-Trichlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2,4-Trichlorobenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1,2-Trichloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,1,1-Trichloroethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Trichloroethene	**37800**	**PV**	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Trichlorofluoromethane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2,3-Trichloropropane	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,3,5-Trimethylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
1,2,4-Trimethylbenzene	ND	PV RL1	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Vinyl chloride	**5100**	**PV**	100		ug/L		05/02/12 06:33	05/02/12 10:36	100
Xylenes, total	ND	PV RL1	300		ug/L		05/02/12 06:33	05/02/12 10:36	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*70 - 130*	*05/02/12 06:33*	*05/02/12 10:36*	*100*
Dibromofluoromethane	*99*		*70 - 130*	*05/02/12 06:33*	*05/02/12 10:36*	*100*
Toluene-d8	*106*		*70 - 130*	*05/02/12 06:33*	*05/02/12 10:36*	*100*
4-Bromofluorobenzene	*96*		*70 - 130*	*05/02/12 06:33*	*05/02/12 10:36*	*100*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**33100**	**PV**	1000		ug/L		05/02/12 06:33	05/02/12 11:03	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:03*	*1000*
Dibromofluoromethane	*96*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:03*	*1000*
Toluene-d8	*106*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:03*	*1000*
4-Bromofluorobenzene	*96*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:03*	*1000*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-104-042512
Date Collected: 04/25/12 10:30
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-02
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	RL1	50000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Benzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Bromobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Bromochloromethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Bromodichloromethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Bromoform	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Bromomethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
2-Butanone	ND	RL1	50000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
sec-Butylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
n-Butylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
tert-Butylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Carbon disulfide	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Carbon Tetrachloride	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Chlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Chlorodibromomethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Chloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Chloroform	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Chloromethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
2-Chlorotoluene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
4-Chlorotoluene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2-Dibromo-3-chloropropane	ND	RL1	10000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2-Dibromoethane (EDB)	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Dibromomethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,4-Dichlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,3-Dichlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2-Dichlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Dichlorodifluoromethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1-Dichloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2-Dichloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
cis-1,2-Dichloroethene	**32200**		1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1-Dichloroethene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
trans-1,2-Dichloroethene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,3-Dichloropropane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2-Dichloropropane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
2,2-Dichloropropane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
cis-1,3-Dichloropropene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
trans-1,3-Dichloropropene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1-Dichloropropene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Ethylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Hexachlorobutadiene	ND	RL1	2000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
2-Hexanone	ND	RL1	10000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Isopropylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
p-Isopropyltoluene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Methyl tert-Butyl Ether	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Methylene Chloride	ND	RL1	5000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
4-Methyl-2-pentanone	ND	RL1	10000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Naphthalene	ND	RL1	5000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
n-Propylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Styrene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1,1,2-Tetrachloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1,2,2-Tetrachloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000

Client Sample ID: M+A-104-042512
Date Collected: 04/25/12 10:30
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-02
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1380**		1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Toluene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2,3-Trichlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2,4-Trichlorobenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1,2-Trichloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,1,1-Trichloroethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Trichloroethene	**199000**		1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Trichlorofluoromethane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2,3-Trichloropropane	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,3,5-Trimethylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
1,2,4-Trimethylbenzene	ND	RL1	1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Vinyl chloride	**2010**		1000		ug/L		05/02/12 06:33	05/02/12 11:31	1000
Xylenes, total	ND	RL1	3000		ug/L		05/02/12 06:33	05/02/12 11:31	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:31*	*1000*
Dibromofluoromethane	*98*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:31*	*1000*
Toluene-d8	*105*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:31*	*1000*
4-Bromofluorobenzene	*96*		*70 - 130*	*05/02/12 06:33*	*05/02/12 11:31*	*1000*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-111-042412
Date Collected: 04/24/12 15:20
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-03
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	RL1	500		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Benzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Bromobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Bromochloromethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Bromodichloromethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Bromoform	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Bromomethane	ND	L RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
2-Butanone	ND	RL1	500		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
sec-Butylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
n-Butylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
tert-Butylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Carbon disulfide	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Carbon Tetrachloride	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Chlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Chlorodibromomethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Chloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Chloroform	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Chloromethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
2-Chlorotoluene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
4-Chlorotoluene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2-Dibromo-3-chloropropane	ND	RL1	100		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2-Dibromoethane (EDB)	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Dibromomethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,4-Dichlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,3-Dichlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2-Dichlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Dichlorodifluoromethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1-Dichloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2-Dichloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
cis-1,2-Dichloroethene	261		10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1-Dichloroethene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
trans-1,2-Dichloroethene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,3-Dichloropropane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2-Dichloropropane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
2,2-Dichloropropane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
cis-1,3-Dichloropropene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
trans-1,3-Dichloropropene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1-Dichloropropene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Ethylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Hexachlorobutadiene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
2-Hexanone	ND	RL1	100		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Isopropylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
p-Isopropyltoluene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Methyl tert-Butyl Ether	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Methylene Chloride	ND	RL1	50.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
4-Methyl-2-pentanone	ND	RL1	100		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Naphthalene	ND	RL1	50.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
n-Propylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Styrene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1,1,2-Tetrachloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1,2,2-Tetrachloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0

Client Sample ID: M+A-111-042412
Date Collected: 04/24/12 15:20
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-03
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Toluene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2,3-Trichlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2,4-Trichlorobenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1,2-Trichloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,1,1-Trichloroethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Trichloroethene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Trichlorofluoromethane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2,3-Trichloropropane	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,3,5-Trimethylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
1,2,4-Trimethylbenzene	ND	RL1	10.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0
Xylenes, total	ND	RL1	30.0		ug/L		05/08/12 04:47	05/08/12 08:04	10.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:04*	*10.0*
Dibromofluoromethane	*100*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:04*	*10.0*
Toluene-d8	*104*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:04*	*10.0*
4-Bromofluorobenzene	*92*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:04*	*10.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2450		100		ug/L		05/08/12 04:47	05/08/12 08:31	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*90*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:31*	*100*
Dibromofluoromethane	*98*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:31*	*100*
Toluene-d8	*105*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:31*	*100*
4-Bromofluorobenzene	*92*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:31*	*100*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-115-042512
Date Collected: 04/25/12 10:20
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-04
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	PV	50.0		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Benzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Bromobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Bromochloromethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Bromodichloromethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Bromoform	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Bromomethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
2-Butanone	ND	PV	50.0		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
sec-Butylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
n-Butylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
tert-Butylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Carbon disulfide	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Carbon Tetrachloride	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Chlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Chlorodibromomethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Chloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Chloroform	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Chloromethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
2-Chlorotoluene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
4-Chlorotoluene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2-Dibromo-3-chloropropane	ND	PV	10.0		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2-Dibromoethane (EDB)	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Dibromomethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,4-Dichlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,3-Dichlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2-Dichlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Dichlorodifluoromethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1-Dichloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2-Dichloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
cis-1,2-Dichloroethene	32.8	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1-Dichloroethene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
trans-1,2-Dichloroethene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,3-Dichloropropane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2-Dichloropropane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
2,2-Dichloropropane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
cis-1,3-Dichloropropene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
trans-1,3-Dichloropropene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1-Dichloropropene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Ethylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Hexachlorobutadiene	ND	PV	2.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
2-Hexanone	ND	PV	10.0		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Isopropylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
p-Isopropyltoluene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Methyl tert-Butyl Ether	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Methylene Chloride	ND	PV	5.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
4-Methyl-2-pentanone	ND	PV	10.0		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Naphthalene	ND	PV	5.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
n-Propylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Styrene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1,1,2-Tetrachloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1,2,2-Tetrachloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-115-042512
Date Collected: 04/25/12 10:20
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-04
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Toluene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2,3-Trichlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2,4-Trichlorobenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1,2-Trichloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,1,1-Trichloroethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Trichloroethene	1.50	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Trichlorofluoromethane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2,3-Trichloropropane	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,3,5-Trimethylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
1,2,4-Trimethylbenzene	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Vinyl chloride	ND	PV	1.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00
Xylenes, total	ND	PV	3.00		ug/L		05/01/12 08:25	05/01/12 17:28	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:28*	*1.00*
Dibromofluoromethane	*98*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:28*	*1.00*
Toluene-d8	*105*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:28*	*1.00*
4-Bromofluorobenzene	*95*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:28*	*1.00*

Client Sample ID: M+A-116-042412
Date Collected: 04/24/12 14:40
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-05
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Benzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Bromobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Bromochloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Bromodichloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Bromoform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Bromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
2-Butanone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
n-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Carbon disulfide	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Chlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Chloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Chloroform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Chloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Dibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
cis-1,2-Dichloroethene	10.2		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
trans-1,2-Dichloroethene	1.56		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Ethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
2-Hexanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Isopropylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Methylene Chloride	ND		5.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Naphthalene	ND		5.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
n-Propylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Styrene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00

Client Sample ID: M+A-116-042412
Date Collected: 04/24/12 14:40
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-05
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Toluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Trichloroethene	9.25		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Vinyl chloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00
Xylenes, total	ND		3.00		ug/L		05/01/12 08:25	05/01/12 17:55	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*101*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:55*	*1.00*
Dibromofluoromethane	*96*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:55*	*1.00*
Toluene-d8	*107*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:55*	*1.00*
4-Bromofluorobenzene	*96*		*70 - 130*	*05/01/12 08:25*	*05/01/12 17:55*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-112-042512
Date Collected: 04/25/12 11:50
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-06
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	RL1	1000		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Benzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Bromobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Bromochloromethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Bromodichloromethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Bromoform	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Bromomethane	ND	L RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
2-Butanone	ND	RL1	1000		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
sec-Butylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
n-Butylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
tert-Butylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Carbon disulfide	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Carbon Tetrachloride	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Chlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Chlorodibromomethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Chloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Chloroform	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Chloromethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
2-Chlorotoluene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
4-Chlorotoluene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2-Dibromo-3-chloropropane	ND	RL1	200		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2-Dibromoethane (EDB)	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Dibromomethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,4-Dichlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,3-Dichlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2-Dichlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Dichlorodifluoromethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1-Dichloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2-Dichloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
cis-1,2-Dichloroethene	3070		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1-Dichloroethene	22.6		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
trans-1,2-Dichloroethene	34.6		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,3-Dichloropropane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2-Dichloropropane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
2,2-Dichloropropane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
cis-1,3-Dichloropropene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
trans-1,3-Dichloropropene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1-Dichloropropene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Ethylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Hexachlorobutadiene	ND	RL1	40.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
2-Hexanone	ND	RL1	200		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Isopropylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
p-Isopropyltoluene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Methyl tert-Butyl Ether	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Methylene Chloride	ND	RL1	100		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
4-Methyl-2-pentanone	ND	RL1	200		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Naphthalene	ND	RL1	100		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
n-Propylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Styrene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1,1,2-Tetrachloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1,2,2-Tetrachloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0

Client Sample ID: M+A-112-042512
Date Collected: 04/25/12 11:50
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-06
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**75.0**		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Toluene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2,3-Trichlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2,4-Trichlorobenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1,2-Trichloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,1,1-Trichloroethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Trichloroethene	**2750**		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Trichlorofluoromethane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2,3-Trichloropropane	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,3,5-Trimethylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
1,2,4-Trimethylbenzene	ND	RL1	20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Vinyl chloride	**463**		20.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0
Xylenes, total	ND	RL1	60.0		ug/L		05/08/12 04:47	05/08/12 08:58	20.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:58*	*20.0*
Dibromofluoromethane	*100*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:58*	*20.0*
Toluene-d8	*104*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:58*	*20.0*
4-Bromofluorobenzene	*92*		*70 - 130*	*05/08/12 04:47*	*05/08/12 08:58*	*20.0*

Client Sample ID: M+A-122-042512
Date Collected: 04/25/12 09:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-07
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Benzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Bromobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Bromochloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Bromodichloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Bromoform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Bromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
2-Butanone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
n-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Carbon disulfide	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Chlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Chloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Chloroform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Chloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Dibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Ethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
2-Hexanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Isopropylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Methylene Chloride	ND		5.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Naphthalene	ND		5.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
n-Propylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Styrene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00

Client Sample ID: M+A-122-042512
Date Collected: 04/25/12 09:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-07
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Toluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Trichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Vinyl chloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00
Xylenes, total	ND		3.00		ug/L		05/01/12 08:25	05/01/12 18:23	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:23*	*1.00*
Dibromofluoromethane	*96*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:23*	*1.00*
Toluene-d8	*108*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:23*	*1.00*
4-Bromofluorobenzene	*98*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:23*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-126-042412
Date Collected: 04/24/12 14:30
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-08
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Benzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Bromobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Bromochloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Bromodichloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Bromoform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Bromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
2-Butanone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
n-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Carbon disulfide	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Chlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Chloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Chloroform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Chloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Dibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2-Dichloroethane	1.18		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Ethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
2-Hexanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Isopropylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Methylene Chloride	ND		5.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Naphthalene	ND		5.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
n-Propylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Styrene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00

Client Sample ID: M+A-126-042412
Date Collected: 04/24/12 14:30
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-08
Matrix: Ground Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Toluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Trichloroethene	**1.10**		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2,3-Trichloropropane	**24.1**		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Vinyl chloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00
Xylenes, total	ND		3.00		ug/L		05/01/12 08:25	05/01/12 18:50	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*100*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:50*	*1.00*
Dibromofluoromethane	*96*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:50*	*1.00*
Toluene-d8	*107*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:50*	*1.00*
4-Bromofluorobenzene	*97*		*70 - 130*	*05/01/12 08:25*	*05/01/12 18:50*	*1.00*

Client Sample ID: TB-02-042512
Date Collected: 04/25/12 12:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-09
Matrix: Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Benzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Bromobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Bromochloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Bromodichloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Bromoform	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Bromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
2-Butanone	ND		50.0		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
sec-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
n-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
tert-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Carbon disulfide	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Carbon Tetrachloride	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Chlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Chlorodibromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Chloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Chloroform	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Chloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
2-Chlorotoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
4-Chlorotoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Dibromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1-Dichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2-Dichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,3-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
2,2-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Ethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Hexachlorobutadiene	ND		2.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
2-Hexanone	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Isopropylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
p-Isopropyltoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Methylene Chloride	ND		5.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Naphthalene	ND		5.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
n-Propylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Styrene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00

Client Sample ID: TB-02-042512
Date Collected: 04/25/12 12:00
Date Received: 04/26/12 08:20

Lab Sample ID: NWD3226-09
Matrix: Water

5

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Toluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2,3-Trichlorobenzene	ND	B	1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Trichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Trichlorofluoromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Vinyl chloride	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00
Xylenes, total	ND		3.00		ug/L		04/28/12 07:02	04/28/12 09:43	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*87*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:43*	*1.00*
Dibromofluoromethane	*95*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:43*	*1.00*
Toluene-d8	*110*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:43*	*1.00*
4-Bromofluorobenzene	*93*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:43*	*1.00*

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 12D5708-BLK1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Benzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Bromobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Bromochloromethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Bromodichloromethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Bromoform	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Bromomethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
2-Butanone	ND		50.0		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
n-Butylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Carbon disulfide	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Chlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Chloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Chloroform	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Chloromethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Dibromomethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2-Dichloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Ethylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
2-Hexanone	ND		10.0		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Isopropylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Methylene Chloride	ND		5.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Naphthalene	ND		5.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
n-Propylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Styrene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-BLK1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Tetrachloroethene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Toluene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Trichloroethene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Vinyl chloride	ND		1.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00
Xylenes, total	ND		3.00		ug/L		05/08/12 04:47	05/08/12 07:11	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*91*		*70 - 130*	*05/08/12 04:47*	*05/08/12 07:11*	*1.00*
Dibromofluoromethane	*100*		*70 - 130*	*05/08/12 04:47*	*05/08/12 07:11*	*1.00*
Toluene-d8	*104*		*70 - 130*	*05/08/12 04:47*	*05/08/12 07:11*	*1.00*
4-Bromofluorobenzene	*93*		*70 - 130*	*05/08/12 04:47*	*05/08/12 07:11*	*1.00*

Lab Sample ID: 12D5708-BS1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	210		ug/L		84	54 - 145
Benzene	50.0	51.1		ug/L		102	80 - 121
Bromobenzene	50.0	48.3		ug/L		97	68 - 130
Bromochloromethane	50.0	40.6		ug/L		81	78 - 129
Bromodichloromethane	50.0	47.9		ug/L		96	75 - 129
Bromoform	50.0	55.3		ug/L		111	46 - 145
Bromomethane	50.0	88.8	L1	ug/L		178	41 - 150
2-Butanone	250	199		ug/L		80	62 - 133
sec-Butylbenzene	50.0	51.6		ug/L		103	76 - 128
n-Butylbenzene	50.0	53.0		ug/L		106	68 - 132
tert-Butylbenzene	50.0	50.1		ug/L		100	76 - 126
Carbon disulfide	50.0	48.1		ug/L		96	77 - 126
Carbon Tetrachloride	50.0	50.9		ug/L		102	64 - 147
Chlorobenzene	50.0	48.3		ug/L		97	80 - 120
Chlorodibromomethane	50.0	54.5		ug/L		109	69 - 133
Chloroethane	50.0	43.4		ug/L		87	72 - 120
Chloroform	50.0	50.6		ug/L		101	73 - 129
Chloromethane	50.0	49.8		ug/L		100	12 - 150
2-Chlorotoluene	50.0	48.0		ug/L		96	75 - 126
4-Chlorotoluene	50.0	49.8		ug/L		100	75 - 130
1,2-Dibromo-3-chloropropane	50.0	40.7		ug/L		81	54 - 125
1,2-Dibromoethane (EDB)	50.0	50.0		ug/L		100	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-BS1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	50.0	49.1		ug/L		98	71 - 125
1,4-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 120
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 122
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 121
Dichlorodifluoromethane	50.0	38.8		ug/L		78	37 - 127
1,1-Dichloroethane	50.0	50.8		ug/L		102	78 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	77 - 121
cis-1,2-Dichloroethene	50.0	49.3		ug/L		99	76 - 125
1,1-Dichloroethene	50.0	52.4		ug/L		105	79 - 124
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	79 - 126
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 125
1,2-Dichloropropane	50.0	49.6		ug/L		99	75 - 120
2,2-Dichloropropane	50.0	46.8		ug/L		94	43 - 161
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	74 - 140
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	63 - 134
1,1-Dichloropropene	50.0	50.6		ug/L		101	80 - 122
Ethylbenzene	50.0	51.9		ug/L		104	80 - 130
Hexachlorobutadiene	50.0	57.3		ug/L		115	49 - 146
2-Hexanone	250	230		ug/L		92	60 - 142
Isopropylbenzene	50.0	55.9		ug/L		112	80 - 141
p-Isopropyltoluene	50.0	51.1		ug/L		102	75 - 128
Methyl tert-Butyl Ether	50.0	43.5		ug/L		87	72 - 133
Methylene Chloride	50.0	45.0		ug/L		90	79 - 123
4-Methyl-2-pentanone	250	221		ug/L		88	60 - 137
Naphthalene	50.0	44.4		ug/L		89	62 - 138
n-Propylbenzene	50.0	50.5		ug/L		101	75 - 129
Styrene	50.0	53.3		ug/L		107	80 - 127
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	74 - 135
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L		90	69 - 131
Tetrachloroethene	50.0	56.6		ug/L		113	80 - 126
Toluene	50.0	51.5		ug/L		103	80 - 126
1,2,3-Trichlorobenzene	50.0	50.1		ug/L		100	62 - 133
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	63 - 133
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 124
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	78 - 135
Trichloroethene	50.0	49.0		ug/L		98	80 - 123
Trichlorofluoromethane	50.0	44.6		ug/L		89	65 - 124
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	70 - 131
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	77 - 127
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	77 - 126
Vinyl chloride	50.0	46.7		ug/L		93	68 - 120
Xylenes, total	150	153		ug/L		102	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*88*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8	*104*		*70 - 130*
4-Bromofluorobenzene	*94*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-BSD1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	208		ug/L		83	54 - 145	1	21
Benzene	50.0	50.5		ug/L		101	80 - 121	1	17
Bromobenzene	50.0	48.5		ug/L		97	68 - 130	0.4	20
Bromochloromethane	50.0	40.5		ug/L		81	78 - 129	0.2	17
Bromodichloromethane	50.0	47.3		ug/L		95	75 - 129	1	18
Bromoform	50.0	54.7		ug/L		109	46 - 145	1	16
Bromomethane	50.0	87.5	L1	ug/L		175	41 - 150	1	50
2-Butanone	250	202		ug/L		81	62 - 133	1	19
sec-Butylbenzene	50.0	50.7		ug/L		101	76 - 128	2	16
n-Butylbenzene	50.0	52.5		ug/L		105	68 - 132	1	18
tert-Butylbenzene	50.0	50.0		ug/L		100	76 - 126	0.3	16
Carbon disulfide	50.0	47.5		ug/L		95	77 - 126	1	21
Carbon Tetrachloride	50.0	50.5		ug/L		101	64 - 147	0.7	19
Chlorobenzene	50.0	47.8		ug/L		96	80 - 120	1	14
Chlorodibromomethane	50.0	53.8		ug/L		108	69 - 133	1	15
Chloroethane	50.0	41.7		ug/L		83	72 - 120	4	20
Chloroform	50.0	49.9		ug/L		100	73 - 129	1	18
Chloromethane	50.0	48.8		ug/L		98	12 - 150	2	31
2-Chlorotoluene	50.0	48.0		ug/L		96	75 - 126	0.06	17
4-Chlorotoluene	50.0	49.3		ug/L		99	75 - 130	0.9	18
1,2-Dibromo-3-chloropropane	50.0	40.8		ug/L		82	54 - 125	0.2	24
1,2-Dibromoethane (EDB)	50.0	49.5		ug/L		99	80 - 129	1	15
Dibromomethane	50.0	48.4		ug/L		97	71 - 125	1	16
1,4-Dichlorobenzene	50.0	53.5		ug/L		107	80 - 120	0.3	15
1,3-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 122	1	15
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 121	1	15
Dichlorodifluoromethane	50.0	38.0		ug/L		76	37 - 127	2	18
1,1-Dichloroethane	50.0	50.2		ug/L		100	78 - 125	1	17
1,2-Dichloroethane	50.0	45.6		ug/L		91	77 - 121	0.9	17
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	76 - 125	0.8	17
1,1-Dichloroethene	50.0	51.4		ug/L		103	79 - 124	2	17
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	79 - 126	2	16
1,3-Dichloropropane	50.0	49.0		ug/L		98	80 - 125	1	14
1,2-Dichloropropane	50.0	49.3		ug/L		99	75 - 120	0.5	17
2,2-Dichloropropane	50.0	45.8		ug/L		92	43 - 161	2	18
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	74 - 140	2	15
trans-1,3-Dichloropropene	50.0	49.1		ug/L		98	63 - 134	0.6	14
1,1-Dichloropropene	50.0	49.9		ug/L		100	80 - 122	1	17
Ethylbenzene	50.0	51.1		ug/L		102	80 - 130	2	15
Hexachlorobutadiene	50.0	56.9		ug/L		114	49 - 146	0.6	23
2-Hexanone	250	229		ug/L		91	60 - 142	0.6	15
Isopropylbenzene	50.0	55.4		ug/L		111	80 - 141	0.9	16
p-Isopropyltoluene	50.0	50.5		ug/L		101	75 - 128	1	16
Methyl tert-Butyl Ether	50.0	43.6		ug/L		87	72 - 133	0.2	16
Methylene Chloride	50.0	44.9		ug/L		90	79 - 123	0.1	17
4-Methyl-2-pentanone	250	220		ug/L		88	60 - 137	0.3	17
Naphthalene	50.0	43.9		ug/L		88	62 - 138	1	26
n-Propylbenzene	50.0	50.4		ug/L		101	75 - 129	0.2	17
Styrene	50.0	52.5		ug/L		105	80 - 127	1	24

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-BSD1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	69 - 131	0.3	20
Tetrachloroethene	50.0	55.2		ug/L		110	80 - 126	2	16
Toluene	50.0	51.0		ug/L		102	80 - 126	1	15
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	62 - 133	0.9	25
1,2,4-Trichlorobenzene	50.0	51.8		ug/L		104	63 - 133	1	19
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	80 - 124	0.4	15
1,1,1-Trichloroethane	50.0	49.3		ug/L		99	78 - 135	0.8	17
Trichloroethene	50.0	48.7		ug/L		97	80 - 123	0.6	17
Trichlorofluoromethane	50.0	44.3		ug/L		89	65 - 124	0.5	18
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	70 - 131	0.6	19
1,3,5-Trimethylbenzene	50.0	49.1		ug/L		98	77 - 127	0.5	17
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	77 - 126	1	16
Vinyl chloride	50.0	45.6		ug/L		91	68 - 120	2	17
Xylenes, total	150	151		ug/L		101	80 - 132	1	15

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*89*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8	*104*		*70 - 130*
4-Bromofluorobenzene	*95*		*70 - 130*

Lab Sample ID: 12D5708-MS1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: M+A-112-042512
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	RL1	5000	4330		ug/L		87	45 - 141
Benzene	ND	RL1	1000	1100		ug/L		110	75 - 133
Bromobenzene	ND	RL1	1000	1010		ug/L		101	60 - 138
Bromochloromethane	ND	RL1	1000	940		ug/L		94	67 - 139
Bromodichloromethane	ND	RL1	1000	1020		ug/L		102	70 - 140
Bromoform	ND	RL1	1000	1190		ug/L		119	42 - 147
Bromomethane	ND	L RL1	1000	2010	M7	ug/L		201	16 - 163
2-Butanone	ND	RL1	5000	4800		ug/L		96	50 - 138
sec-Butylbenzene	ND	RL1	1000	1100		ug/L		110	73 - 138
n-Butylbenzene	ND	RL1	1000	1120		ug/L		112	66 - 141
tert-Butylbenzene	ND	RL1	1000	1070		ug/L		107	70 - 138
Carbon disulfide	ND	RL1	1000	1030		ug/L		103	48 - 152
Carbon Tetrachloride	ND	RL1	1000	1120		ug/L		112	62 - 164
Chlorobenzene	ND	RL1	1000	1020		ug/L		102	80 - 129
Chlorodibromomethane	ND	RL1	1000	1160		ug/L		116	66 - 140
Chloroethane	ND	RL1	1000	958		ug/L		96	58 - 137
Chloroform	ND	RL1	1000	1040		ug/L		104	66 - 138
Chloromethane	ND	RL1	1000	865		ug/L		87	10 - 169
2-Chlorotoluene	ND	RL1	1000	1000		ug/L		100	67 - 138
4-Chlorotoluene	ND	RL1	1000	1030		ug/L		103	69 - 138
1,2-Dibromo-3-chloropropane	ND	RL1	1000	907		ug/L		91	52 - 126
1,2-Dibromoethane (EDB)	ND	RL1	1000	1070		ug/L		107	75 - 137

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-MS1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: M+A-112-042512
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	ND	RL1	1000	1040		ug/L		104	58 - 140
1,4-Dichlorobenzene	ND	RL1	1000	1110		ug/L		111	78 - 126
1,3-Dichlorobenzene	ND	RL1	1000	1100		ug/L		110	77 - 131
1,2-Dichlorobenzene	ND	RL1	1000	1070		ug/L		107	79 - 128
Dichlorodifluoromethane	ND	RL1	1000	791		ug/L		79	40 - 127
1,1-Dichloroethane	ND	RL1	1000	1090		ug/L		109	71 - 139
1,2-Dichloroethane	ND	RL1	1000	983		ug/L		98	64 - 136
cis-1,2-Dichloroethene	3070		1000	4060		ug/L		98	68 - 138
1,1-Dichloroethene	22.6		1000	1090		ug/L		107	70 - 142
trans-1,2-Dichloroethene	34.6		1000	1160		ug/L		112	66 - 143
1,3-Dichloropropane	ND	RL1	1000	1060		ug/L		106	72 - 134
1,2-Dichloropropane	ND	RL1	1000	1060		ug/L		106	67 - 131
2,2-Dichloropropane	ND	RL1	1000	835		ug/L		84	37 - 175
cis-1,3-Dichloropropene	ND	RL1	1000	1100		ug/L		110	71 - 141
trans-1,3-Dichloropropene	ND	RL1	1000	1020		ug/L		102	59 - 135
1,1-Dichloropropene	ND	RL1	1000	1110		ug/L		111	76 - 139
Ethylbenzene	ND	RL1	1000	1110		ug/L		111	79 - 139
Hexachlorobutadiene	ND	RL1	1000	1190		ug/L		119	45 - 155
2-Hexanone	ND	RL1	5000	5290		ug/L		106	50 - 150
Isopropylbenzene	ND	RL1	1000	1200		ug/L		120	80 - 153
p-Isopropyltoluene	ND	RL1	1000	1070		ug/L		107	71 - 137
Methyl tert-Butyl Ether	ND	RL1	1000	945		ug/L		95	66 - 141
Methylene Chloride	ND	RL1	1000	995		ug/L		100	64 - 139
4-Methyl-2-pentanone	ND	RL1	5000	5120		ug/L		102	50 - 147
Naphthalene	ND	RL1	1000	975		ug/L		98	55 - 140
n-Propylbenzene	ND	RL1	1000	1060		ug/L		106	69 - 142
Styrene	ND	RL1	1000	1090		ug/L		109	61 - 148
1,1,1,2-Tetrachloroethane	ND	RL1	1000	1080		ug/L		108	73 - 141
1,1,2,2-Tetrachloroethane	ND	RL1	1000	990		ug/L		99	56 - 143
Tetrachloroethene	75.0		1000	1290		ug/L		122	72 - 145
Toluene	ND	RL1	1000	1110		ug/L		111	75 - 136
1,2,3-Trichlorobenzene	ND	RL1	1000	1060		ug/L		106	55 - 138
1,2,4-Trichlorobenzene	ND	RL1	1000	1110		ug/L		111	60 - 136
1,1,2-Trichloroethane	ND	RL1	1000	1080		ug/L		108	74 - 134
1,1,1-Trichloroethane	ND	RL1	1000	1060		ug/L		106	76 - 149
Trichloroethene	2750		1000	3750		ug/L		100	73 - 144
Trichlorofluoromethane	ND	RL1	1000	940		ug/L		94	58 - 139
1,2,3-Trichloropropane	ND	RL1	1000	1010		ug/L		101	53 - 144
1,3,5-Trimethylbenzene	ND	RL1	1000	1040		ug/L		104	69 - 139
1,2,4-Trimethylbenzene	ND	RL1	1000	1020		ug/L		102	69 - 136
Vinyl chloride	463		1000	1440		ug/L		98	56 - 129
Xylenes, total	ND	RL1	3000	3210		ug/L		107	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*70 - 130*
Dibromofluoromethane	*99*		*70 - 130*
Toluene-d8	*104*		*70 - 130*
4-Bromofluorobenzene	*91*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-MSD1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: M+A-112-042512
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND	RL1	5000	4290		ug/L		86	45 - 141	1	21
Benzene	ND	RL1	1000	1050		ug/L		105	75 - 133	4	17
Bromobenzene	ND	RL1	1000	1000		ug/L		100	60 - 138	1	20
Bromochloromethane	ND	RL1	1000	882		ug/L		88	67 - 139	6	17
Bromodichloromethane	ND	RL1	1000	979		ug/L		98	70 - 140	4	18
Bromoform	ND	RL1	1000	1140		ug/L		114	42 - 147	4	16
Bromomethane	ND	L RL1	1000	1500		ug/L		150	16 - 163	29	50
2-Butanone	ND	RL1	5000	4540		ug/L		91	50 - 138	6	19
sec-Butylbenzene	ND	RL1	1000	1080		ug/L		108	73 - 138	2	16
n-Butylbenzene	ND	RL1	1000	1100		ug/L		110	66 - 141	2	18
tert-Butylbenzene	ND	RL1	1000	1050		ug/L		105	70 - 138	2	16
Carbon disulfide	ND	RL1	1000	1020		ug/L		102	48 - 152	2	21
Carbon Tetrachloride	ND	RL1	1000	1080		ug/L		108	62 - 164	4	19
Chlorobenzene	ND	RL1	1000	993		ug/L		99	80 - 129	3	14
Chlorodibromomethane	ND	RL1	1000	1110		ug/L		111	66 - 140	4	15
Chloroethane	ND	RL1	1000	905		ug/L		90	58 - 137	6	20
Chloroform	ND	RL1	1000	992		ug/L		99	66 - 138	4	18
Chloromethane	ND	RL1	1000	912		ug/L		91	10 - 169	5	31
2-Chlorotoluene	ND	RL1	1000	993		ug/L		99	67 - 138	0.9	17
4-Chlorotoluene	ND	RL1	1000	1010		ug/L		101	69 - 138	2	18
1,2-Dibromo-3-chloropropane	ND	RL1	1000	870		ug/L		87	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND	RL1	1000	1020		ug/L		102	75 - 137	4	15
Dibromomethane	ND	RL1	1000	1010		ug/L		101	58 - 140	3	16
1,4-Dichlorobenzene	ND	RL1	1000	1080		ug/L		108	78 - 126	2	15
1,3-Dichlorobenzene	ND	RL1	1000	1090		ug/L		109	77 - 131	2	15
1,2-Dichlorobenzene	ND	RL1	1000	1040		ug/L		104	79 - 128	3	15
Dichlorodifluoromethane	ND	RL1	1000	773		ug/L		77	40 - 127	2	18
1,1-Dichloroethane	ND	RL1	1000	1060		ug/L		106	71 - 139	3	17
1,2-Dichloroethane	ND	RL1	1000	945		ug/L		95	64 - 136	4	17
cis-1,2-Dichloroethene	3070		1000	3840		ug/L		77	68 - 138	6	17
1,1-Dichloroethene	22.6		1000	1060		ug/L		104	70 - 142	3	17
trans-1,2-Dichloroethene	34.6		1000	1110		ug/L		108	66 - 143	4	16
1,3-Dichloropropane	ND	RL1	1000	1020		ug/L		102	72 - 134	4	14
1,2-Dichloropropane	ND	RL1	1000	1030		ug/L		103	67 - 131	3	17
2,2-Dichloropropane	ND	RL1	1000	808		ug/L		81	37 - 175	3	18
cis-1,3-Dichloropropene	ND	RL1	1000	1060		ug/L		106	71 - 141	4	15
trans-1,3-Dichloropropene	ND	RL1	1000	985		ug/L		99	59 - 135	3	14
1,1-Dichloropropene	ND	RL1	1000	1080		ug/L		108	76 - 139	3	17
Ethylbenzene	ND	RL1	1000	1070		ug/L		107	79 - 139	3	15
Hexachlorobutadiene	ND	RL1	1000	1210		ug/L		121	45 - 155	2	23
2-Hexanone	ND	RL1	5000	5020		ug/L		100	50 - 150	5	15
Isopropylbenzene	ND	RL1	1000	1170		ug/L		117	80 - 153	2	16
p-Isopropyltoluene	ND	RL1	1000	1050		ug/L		105	71 - 137	1	16
Methyl tert-Butyl Ether	ND	RL1	1000	909		ug/L		91	66 - 141	4	16
Methylene Chloride	ND	RL1	1000	933		ug/L		93	64 - 139	6	17
4-Methyl-2-pentanone	ND	RL1	5000	4870		ug/L		97	50 - 147	5	17
Naphthalene	ND	RL1	1000	968		ug/L		97	55 - 140	0.8	26
n-Propylbenzene	ND	RL1	1000	1040		ug/L		104	69 - 142	1	17
Styrene	ND	RL1	1000	1050		ug/L		105	61 - 148	3	24

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D5708-MSD1
Matrix: Water
Analysis Batch: V007579

Client Sample ID: M+A-112-042512
Prep Type: Total
Prep Batch: 12D5708_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	RL1	1000	1050		ug/L		105	73 - 141	3	16
1,1,2,2-Tetrachloroethane	ND	RL1	1000	972		ug/L		97	56 - 143	2	20
Tetrachloroethene	75.0		1000	1250		ug/L		117	72 - 145	4	16
Toluene	ND	RL1	1000	1070		ug/L		107	75 - 136	4	15
1,2,3-Trichlorobenzene	ND	RL1	1000	1070		ug/L		107	55 - 138	0.3	25
1,2,4-Trichlorobenzene	ND	RL1	1000	1100		ug/L		110	60 - 136	0.8	19
1,1,2-Trichloroethane	ND	RL1	1000	1030		ug/L		103	74 - 134	4	15
1,1,1-Trichloroethane	ND	RL1	1000	1030		ug/L		103	76 - 149	3	17
Trichloroethene	2750		1000	3530		ug/L		78	73 - 144	6	17
Trichlorofluoromethane	ND	RL1	1000	907		ug/L		91	58 - 139	4	18
1,2,3-Trichloropropane	ND	RL1	1000	988		ug/L		99	53 - 144	2	19
1,3,5-Trimethylbenzene	ND	RL1	1000	1020		ug/L		102	69 - 139	2	17
1,2,4-Trimethylbenzene	ND	RL1	1000	1010		ug/L		101	69 - 136	0.9	16
Vinyl chloride	463		1000	1400		ug/L		94	56 - 129	3	17
Xylenes, total	ND	RL1	3000	3090		ug/L		103	74 - 141	4	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*90*		*70 - 130*
Dibromofluoromethane	*98*		*70 - 130*
Toluene-d8	*103*		*70 - 130*
4-Bromofluorobenzene	*93*		*70 - 130*

Lab Sample ID: 12E0011-BLK1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Benzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Bromobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Bromochloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Bromodichloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Bromoform	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Bromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
2-Butanone	ND		50.0		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
sec-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
n-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
tert-Butylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Carbon disulfide	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Carbon Tetrachloride	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Chlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Chlorodibromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Chloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Chloroform	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Chloromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
2-Chlorotoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
4-Chlorotoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0011-BLK1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1-Dichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2-Dichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,3-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
2,2-Dichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1-Dichloropropene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Ethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Hexachlorobutadiene	ND		2.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
2-Hexanone	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Isopropylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
p-Isopropyltoluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Methylene Chloride	ND		5.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Naphthalene	ND		5.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
n-Propylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Styrene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Tetrachloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Toluene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2,3-Trichlorobenzene	1.06		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Trichloroethene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Trichlorofluoromethane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Vinyl chloride	ND		1.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00
Xylenes, total	ND		3.00		ug/L		04/28/12 07:02	04/28/12 09:16	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*87*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:16*	*1.00*
Dibromofluoromethane	*94*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:16*	*1.00*
Toluene-d8	*109*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:16*	*1.00*
4-Bromofluorobenzene	*94*		*70 - 130*	*04/28/12 07:02*	*04/28/12 09:16*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0011-BS1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	226		ug/L		90	54 - 145
Benzene	50.0	43.4		ug/L		87	80 - 121
Bromobenzene	50.0	49.6		ug/L		99	68 - 130
Bromochloromethane	50.0	44.6		ug/L		89	78 - 129
Bromodichloromethane	50.0	40.9		ug/L		82	75 - 129
Bromoform	50.0	55.9		ug/L		112	46 - 145
Bromomethane	50.0	45.0		ug/L		90	41 - 150
2-Butanone	250	221		ug/L		89	62 - 133
sec-Butylbenzene	50.0	53.8		ug/L		108	76 - 128
n-Butylbenzene	50.0	53.1		ug/L		106	68 - 132
tert-Butylbenzene	50.0	52.9		ug/L		106	76 - 126
Carbon disulfide	50.0	40.5		ug/L		81	77 - 126
Carbon Tetrachloride	50.0	46.8		ug/L		94	64 - 147
Chlorobenzene	50.0	51.2		ug/L		102	80 - 120
Chlorodibromomethane	50.0	54.0		ug/L		108	69 - 133
Chloroethane	50.0	37.2		ug/L		74	72 - 120
Chloroform	50.0	45.2		ug/L		90	73 - 129
Chloromethane	50.0	34.1		ug/L		68	12 - 150
2-Chlorotoluene	50.0	50.0		ug/L		100	75 - 126
4-Chlorotoluene	50.0	51.5		ug/L		103	75 - 130
1,2-Dibromo-3-chloropropane	50.0	50.1		ug/L		100	54 - 125
1,2-Dibromoethane (EDB)	50.0	53.4		ug/L		107	80 - 129
Dibromomethane	50.0	44.4		ug/L		89	71 - 125
1,4-Dichlorobenzene	50.0	54.0		ug/L		108	80 - 120
1,3-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 122
1,2-Dichlorobenzene	50.0	54.1		ug/L		108	80 - 121
Dichlorodifluoromethane	50.0	32.5		ug/L		65	37 - 127
1,1-Dichloroethane	50.0	42.1		ug/L		84	78 - 125
1,2-Dichloroethane	50.0	38.9		ug/L		78	77 - 121
cis-1,2-Dichloroethene	50.0	40.8		ug/L		82	76 - 125
1,1-Dichloroethene	50.0	44.7		ug/L		89	79 - 124
trans-1,2-Dichloroethene	50.0	41.8		ug/L		84	79 - 126
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 125
1,2-Dichloropropane	50.0	41.6		ug/L		83	75 - 120
2,2-Dichloropropane	50.0	42.6		ug/L		85	43 - 161
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	74 - 140
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	63 - 134
1,1-Dichloropropene	50.0	42.1		ug/L		84	80 - 122
Ethylbenzene	50.0	51.8		ug/L		104	80 - 130
Hexachlorobutadiene	50.0	48.3		ug/L		97	49 - 146
2-Hexanone	250	273		ug/L		109	60 - 142
Isopropylbenzene	50.0	56.3		ug/L		113	80 - 141
p-Isopropyltoluene	50.0	52.3		ug/L		105	75 - 128
Methyl tert-Butyl Ether	50.0	40.1		ug/L		80	72 - 133
Methylene Chloride	50.0	41.6		ug/L		83	79 - 123
4-Methyl-2-pentanone	250	253		ug/L		101	60 - 137
Naphthalene	50.0	53.1		ug/L		106	62 - 138
n-Propylbenzene	50.0	52.0		ug/L		104	75 - 129
Styrene	50.0	52.9		ug/L		106	80 - 127

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0011-BS1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.3		ug/L		105	74 - 135
1,1,2,2-Tetrachloroethane	50.0	54.4		ug/L		109	69 - 131
Tetrachloroethene	50.0	53.8		ug/L		108	80 - 126
Toluene	50.0	52.0		ug/L		104	80 - 126
1,2,3-Trichlorobenzene	50.0	55.2	B	ug/L		110	62 - 133
1,2,4-Trichlorobenzene	50.0	54.2		ug/L		108	63 - 133
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 124
1,1,1-Trichloroethane	50.0	42.0		ug/L		84	78 - 135
Trichloroethene	50.0	44.4		ug/L		89	80 - 123
Trichlorofluoromethane	50.0	35.6		ug/L		71	65 - 124
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	70 - 131
1,3,5-Trimethylbenzene	50.0	52.7		ug/L		105	77 - 127
1,2,4-Trimethylbenzene	50.0	51.9		ug/L		104	77 - 126
Vinyl chloride	50.0	37.4		ug/L		75	68 - 120
Xylenes, total	150	153		ug/L		102	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*70 - 130*
Dibromofluoromethane	*92*		*70 - 130*
Toluene-d8	*107*		*70 - 130*
4-Bromofluorobenzene	*95*		*70 - 130*

Lab Sample ID: 12E0011-BSD1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	276		ug/L		110	54 - 145	20	21
Benzene	50.0	43.9		ug/L		88	80 - 121	1	17
Bromobenzene	50.0	51.6		ug/L		103	68 - 130	4	20
Bromochloromethane	50.0	45.5		ug/L		91	78 - 129	2	17
Bromodichloromethane	50.0	41.2		ug/L		82	75 - 129	0.5	18
Bromoform	50.0	56.5		ug/L		113	46 - 145	1	16
Bromomethane	50.0	45.8		ug/L		92	41 - 150	2	50
2-Butanone	250	243		ug/L		97	62 - 133	9	19
sec-Butylbenzene	50.0	55.2		ug/L		110	76 - 128	3	16
n-Butylbenzene	50.0	54.5		ug/L		109	68 - 132	3	18
tert-Butylbenzene	50.0	54.4		ug/L		109	76 - 126	3	16
Carbon disulfide	50.0	41.3		ug/L		83	77 - 126	2	21
Carbon Tetrachloride	50.0	47.5		ug/L		95	64 - 147	1	19
Chlorobenzene	50.0	52.1		ug/L		104	80 - 120	2	14
Chlorodibromomethane	50.0	55.2		ug/L		110	69 - 133	2	15
Chloroethane	50.0	38.3		ug/L		77	72 - 120	3	20
Chloroform	50.0	45.2		ug/L		90	73 - 129	0.1	18
Chloromethane	50.0	33.4		ug/L		67	12 - 150	2	31
2-Chlorotoluene	50.0	50.9		ug/L		102	75 - 126	2	17
4-Chlorotoluene	50.0	53.2		ug/L		106	75 - 130	3	18
1,2-Dibromo-3-chloropropane	50.0	52.4		ug/L		105	54 - 125	5	24
1,2-Dibromoethane (EDB)	50.0	54.5		ug/L		109	80 - 129	2	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0011-BSD1
Matrix: Water
Analysis Batch: V007125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0011_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	44.2		ug/L		88	71 - 125	0.5	16
1,4-Dichlorobenzene	50.0	55.6		ug/L		111	80 - 120	3	15
1,3-Dichlorobenzene	50.0	54.4		ug/L		109	80 - 122	1	15
1,2-Dichlorobenzene	50.0	55.1		ug/L		110	80 - 121	2	15
Dichlorodifluoromethane	50.0	33.4		ug/L		67	37 - 127	3	18
1,1-Dichloroethane	50.0	42.5		ug/L		85	78 - 125	1	17
1,2-Dichloroethane	50.0	38.8		ug/L		78	77 - 121	0.3	17
cis-1,2-Dichloroethene	50.0	41.0		ug/L		82	76 - 125	0.6	17
1,1-Dichloroethene	50.0	46.1		ug/L		92	79 - 124	3	17
trans-1,2-Dichloroethene	50.0	42.1		ug/L		84	79 - 126	0.8	16
1,3-Dichloropropane	50.0	51.9		ug/L		104	80 - 125	1	14
1,2-Dichloropropane	50.0	42.1		ug/L		84	75 - 120	1	17
2,2-Dichloropropane	50.0	42.7		ug/L		85	43 - 161	0.4	18
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	74 - 140	2	15
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	63 - 134	1	14
1,1-Dichloropropene	50.0	42.6		ug/L		85	80 - 122	1	17
Ethylbenzene	50.0	52.8		ug/L		106	80 - 130	2	15
Hexachlorobutadiene	50.0	50.8		ug/L		102	49 - 146	5	23
2-Hexanone	250	290		ug/L		116	60 - 142	6	15
Isopropylbenzene	50.0	57.0		ug/L		114	80 - 141	1	16
p-Isopropyltoluene	50.0	53.7		ug/L		107	75 - 128	3	16
Methyl tert-Butyl Ether	50.0	40.9		ug/L		82	72 - 133	2	16
Methylene Chloride	50.0	42.4		ug/L		85	79 - 123	2	17
4-Methyl-2-pentanone	250	257		ug/L		103	60 - 137	2	17
Naphthalene	50.0	55.5		ug/L		111	62 - 138	4	26
n-Propylbenzene	50.0	53.5		ug/L		107	75 - 129	3	17
Styrene	50.0	53.0		ug/L		106	80 - 127	0.2	24
1,1,1,2-Tetrachloroethane	50.0	53.4		ug/L		107	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	56.2		ug/L		112	69 - 131	3	20
Tetrachloroethene	50.0	55.2		ug/L		110	80 - 126	2	16
Toluene	50.0	53.3		ug/L		107	80 - 126	2	15
1,2,3-Trichlorobenzene	50.0	58.0	B	ug/L		116	62 - 133	5	25
1,2,4-Trichlorobenzene	50.0	57.0		ug/L		114	63 - 133	5	19
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	80 - 124	2	15
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	78 - 135	1	17
Trichloroethene	50.0	45.6		ug/L		91	80 - 123	3	17
Trichlorofluoromethane	50.0	35.4		ug/L		71	65 - 124	0.5	18
1,2,3-Trichloropropane	50.0	53.6		ug/L		107	70 - 131	3	19
1,3,5-Trimethylbenzene	50.0	54.3		ug/L		109	77 - 127	3	17
1,2,4-Trimethylbenzene	50.0	53.2		ug/L		106	77 - 126	2	16
Vinyl chloride	50.0	38.1		ug/L		76	68 - 120	2	17
Xylenes, total	150	155		ug/L		103	80 - 132	1	15

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*70 - 130*
Dibromofluoromethane	*93*		*70 - 130*
Toluene-d8	*108*		*70 - 130*
4-Bromofluorobenzene	*96*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-BLK1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Benzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Bromobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Bromochloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Bromodichloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Bromoform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Bromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
2-Butanone	ND		50.0		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
n-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Carbon disulfide	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Chlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Chloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Chloroform	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Chloromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Dibromomethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2-Dichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Ethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
2-Hexanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Isopropylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Methylene Chloride	ND		5.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Naphthalene	ND		5.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
n-Propylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Styrene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-BLK1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Tetrachloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Toluene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Trichloroethene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Vinyl chloride	ND		1.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00
Xylenes, total	ND		3.00		ug/L		05/01/12 08:25	05/01/12 11:07	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*70 - 130*	*05/01/12 08:25*	*05/01/12 11:07*	*1.00*
Dibromofluoromethane	*98*		*70 - 130*	*05/01/12 08:25*	*05/01/12 11:07*	*1.00*
Toluene-d8	*106*		*70 - 130*	*05/01/12 08:25*	*05/01/12 11:07*	*1.00*
4-Bromofluorobenzene	*98*		*70 - 130*	*05/01/12 08:25*	*05/01/12 11:07*	*1.00*

Lab Sample ID: 12E0352-BS1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	234		ug/L		94	54 - 145
Benzene	50.0	43.9		ug/L		88	80 - 121
Bromobenzene	50.0	54.3		ug/L		109	68 - 130
Bromochloromethane	50.0	46.0		ug/L		92	78 - 129
Bromodichloromethane	50.0	45.2		ug/L		90	75 - 129
Bromoform	50.0	63.3		ug/L		127	46 - 145
Bromomethane	50.0	41.7		ug/L		83	41 - 150
2-Butanone	250	225		ug/L		90	62 - 133
sec-Butylbenzene	50.0	54.0		ug/L		108	76 - 128
n-Butylbenzene	50.0	54.2		ug/L		108	68 - 132
tert-Butylbenzene	50.0	54.7		ug/L		109	76 - 126
Carbon disulfide	50.0	41.3		ug/L		83	77 - 126
Carbon Tetrachloride	50.0	50.6		ug/L		101	64 - 147
Chlorobenzene	50.0	51.5		ug/L		103	80 - 120
Chlorodibromomethane	50.0	57.4		ug/L		115	69 - 133
Chloroethane	50.0	37.2		ug/L		74	72 - 120
Chloroform	50.0	45.4		ug/L		91	73 - 129
Chloromethane	50.0	35.2		ug/L		70	12 - 150
2-Chlorotoluene	50.0	52.7		ug/L		105	75 - 126
4-Chlorotoluene	50.0	53.7		ug/L		107	75 - 130
1,2-Dibromo-3-chloropropane	50.0	55.3		ug/L		111	54 - 125
1,2-Dibromoethane (EDB)	50.0	55.7		ug/L		111	80 - 129

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-BS1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	50.0	47.5		ug/L		95	71 - 125
1,4-Dichlorobenzene	50.0	56.2		ug/L		112	80 - 120
1,3-Dichlorobenzene	50.0	55.5		ug/L		111	80 - 122
1,2-Dichlorobenzene	50.0	56.2		ug/L		112	80 - 121
Dichlorodifluoromethane	50.0	36.8		ug/L		74	37 - 127
1,1-Dichloroethane	50.0	43.1		ug/L		86	78 - 125
1,2-Dichloroethane	50.0	43.6		ug/L		87	77 - 121
cis-1,2-Dichloroethene	50.0	42.0		ug/L		84	76 - 125
1,1-Dichloroethene	50.0	44.4		ug/L		89	79 - 124
trans-1,2-Dichloroethene	50.0	42.6		ug/L		85	79 - 126
1,3-Dichloropropane	50.0	52.8		ug/L		106	80 - 125
1,2-Dichloropropane	50.0	42.0		ug/L		84	75 - 120
2,2-Dichloropropane	50.0	45.9		ug/L		92	43 - 161
cis-1,3-Dichloropropene	50.0	54.8		ug/L		110	74 - 140
trans-1,3-Dichloropropene	50.0	52.0		ug/L		104	63 - 134
1,1-Dichloropropene	50.0	42.9		ug/L		86	80 - 122
Ethylbenzene	50.0	51.7		ug/L		103	80 - 130
Hexachlorobutadiene	50.0	52.9		ug/L		106	49 - 146
2-Hexanone	250	283		ug/L		113	60 - 142
Isopropylbenzene	50.0	55.1		ug/L		110	80 - 141
p-Isopropyltoluene	50.0	53.9		ug/L		108	75 - 128
Methyl tert-Butyl Ether	50.0	42.7		ug/L		85	72 - 133
Methylene Chloride	50.0	42.4		ug/L		85	79 - 123
4-Methyl-2-pentanone	250	271		ug/L		109	60 - 137
Naphthalene	50.0	57.4		ug/L		115	62 - 138
n-Propylbenzene	50.0	53.0		ug/L		106	75 - 129
Styrene	50.0	51.8		ug/L		104	80 - 127
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/L		108	74 - 135
1,1,2,2-Tetrachloroethane	50.0	57.9		ug/L		116	69 - 131
Tetrachloroethene	50.0	54.4		ug/L		109	80 - 126
Toluene	50.0	51.3		ug/L		103	80 - 126
1,2,3-Trichlorobenzene	50.0	61.7		ug/L		123	62 - 133
1,2,4-Trichlorobenzene	50.0	59.7		ug/L		119	63 - 133
1,1,2-Trichloroethane	50.0	54.8		ug/L		110	80 - 124
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	78 - 135
Trichloroethene	50.0	45.0		ug/L		90	80 - 123
Trichlorofluoromethane	50.0	38.8		ug/L		78	65 - 124
1,2,3-Trichloropropane	50.0	58.9		ug/L		118	70 - 131
1,3,5-Trimethylbenzene	50.0	53.7		ug/L		107	77 - 127
1,2,4-Trimethylbenzene	50.0	53.2		ug/L		106	77 - 126
Vinyl chloride	50.0	37.9		ug/L		76	68 - 120
Xylenes, total	150	155		ug/L		103	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*105*		*70 - 130*
Dibromofluoromethane	*95*		*70 - 130*
Toluene-d8	*106*		*70 - 130*
4-Bromofluorobenzene	*101*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-BSD1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	232		ug/L		93	54 - 145	1	21
Benzene	50.0	45.3		ug/L		91	80 - 121	3	17
Bromobenzene	50.0	55.0		ug/L		110	68 - 130	1	20
Bromochloromethane	50.0	47.8		ug/L		96	78 - 129	4	17
Bromodichloromethane	50.0	46.4		ug/L		93	75 - 129	3	18
Bromoform	50.0	65.0		ug/L		130	46 - 145	3	16
Bromomethane	50.0	43.1		ug/L		86	41 - 150	3	50
2-Butanone	250	232		ug/L		93	62 - 133	3	19
sec-Butylbenzene	50.0	55.0		ug/L		110	76 - 128	2	16
n-Butylbenzene	50.0	54.6		ug/L		109	68 - 132	0.8	18
tert-Butylbenzene	50.0	56.0		ug/L		112	76 - 126	2	16
Carbon disulfide	50.0	43.2		ug/L		86	77 - 126	5	21
Carbon Tetrachloride	50.0	53.3		ug/L		107	64 - 147	5	19
Chlorobenzene	50.0	52.9		ug/L		106	80 - 120	3	14
Chlorodibromomethane	50.0	58.9		ug/L		118	69 - 133	3	15
Chloroethane	50.0	39.7		ug/L		79	72 - 120	6	20
Chloroform	50.0	47.4		ug/L		95	73 - 129	4	18
Chloromethane	50.0	39.5		ug/L		79	12 - 150	12	31
2-Chlorotoluene	50.0	53.4		ug/L		107	75 - 126	1	17
4-Chlorotoluene	50.0	55.0		ug/L		110	75 - 130	2	18
1,2-Dibromo-3-chloropropane	50.0	55.7		ug/L		111	54 - 125	0.7	24
1,2-Dibromoethane (EDB)	50.0	56.6		ug/L		113	80 - 129	2	15
Dibromomethane	50.0	49.6		ug/L		99	71 - 125	4	16
1,4-Dichlorobenzene	50.0	56.7		ug/L		113	80 - 120	0.9	15
1,3-Dichlorobenzene	50.0	56.0		ug/L		112	80 - 122	1	15
1,2-Dichlorobenzene	50.0	56.7		ug/L		113	80 - 121	1	15
Dichlorodifluoromethane	50.0	38.4		ug/L		77	37 - 127	4	18
1,1-Dichloroethane	50.0	44.8		ug/L		90	78 - 125	4	17
1,2-Dichloroethane	50.0	45.3		ug/L		91	77 - 121	4	17
cis-1,2-Dichloroethene	50.0	43.3		ug/L		87	76 - 125	3	17
1,1-Dichloroethene	50.0	46.5		ug/L		93	79 - 124	5	17
trans-1,2-Dichloroethene	50.0	44.4		ug/L		89	79 - 126	4	16
1,3-Dichloropropane	50.0	53.6		ug/L		107	80 - 125	1	14
1,2-Dichloropropane	50.0	42.9		ug/L		86	75 - 120	2	17
2,2-Dichloropropane	50.0	46.9		ug/L		94	43 - 161	2	18
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	74 - 140	1	15
trans-1,3-Dichloropropene	50.0	53.2		ug/L		106	63 - 134	2	14
1,1-Dichloropropene	50.0	45.0		ug/L		90	80 - 122	5	17
Ethylbenzene	50.0	52.7		ug/L		105	80 - 130	2	15
Hexachlorobutadiene	50.0	54.7		ug/L		109	49 - 146	3	23
2-Hexanone	250	284		ug/L		114	60 - 142	0.5	15
Isopropylbenzene	50.0	56.5		ug/L		113	80 - 141	2	16
p-Isopropyltoluene	50.0	54.6		ug/L		109	75 - 128	1	16
Methyl tert-Butyl Ether	50.0	44.1		ug/L		88	72 - 133	3	16
Methylene Chloride	50.0	43.6		ug/L		87	79 - 123	3	17
4-Methyl-2-pentanone	250	279		ug/L		112	60 - 137	3	17
Naphthalene	50.0	59.0		ug/L		118	62 - 138	3	26
n-Propylbenzene	50.0	53.6		ug/L		107	75 - 129	1	17
Styrene	50.0	53.0		ug/L		106	80 - 127	2	24

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-BSD1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	55.1		ug/L		110	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	58.4		ug/L		117	69 - 131	0.9	20
Tetrachloroethene	50.0	56.4		ug/L		113	80 - 126	4	16
Toluene	50.0	52.2		ug/L		104	80 - 126	2	15
1,2,3-Trichlorobenzene	50.0	63.4		ug/L		127	62 - 133	3	25
1,2,4-Trichlorobenzene	50.0	61.9		ug/L		124	63 - 133	4	19
1,1,2-Trichloroethane	50.0	55.1		ug/L		110	80 - 124	0.6	15
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	78 - 135	3	17
Trichloroethene	50.0	47.6		ug/L		95	80 - 123	6	17
Trichlorofluoromethane	50.0	40.8		ug/L		82	65 - 124	5	18
1,2,3-Trichloropropane	50.0	59.5		ug/L		119	70 - 131	0.9	19
1,3,5-Trimethylbenzene	50.0	54.6		ug/L		109	77 - 127	2	17
1,2,4-Trimethylbenzene	50.0	53.8		ug/L		108	77 - 126	1	16
Vinyl chloride	50.0	39.5		ug/L		79	68 - 120	4	17
Xylenes, total	150	158		ug/L		105	80 - 132	2	15

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8	*105*		*70 - 130*
4-Bromofluorobenzene	*100*		*70 - 130*

Lab Sample ID: 12E0352-MS1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		25000	25100		ug/L		100	45 - 141
Benzene	ND		5000	4540		ug/L		91	75 - 133
Bromobenzene	ND		5000	5460		ug/L		109	60 - 138
Bromochloromethane	ND		5000	4900		ug/L		98	67 - 139
Bromodichloromethane	ND		5000	4630		ug/L		93	70 - 140
Bromoform	ND		5000	7000		ug/L		140	42 - 147
Bromomethane	ND		5000	3330		ug/L		67	16 - 163
2-Butanone	ND		25000	26700		ug/L		107	50 - 138
sec-Butylbenzene	ND		5000	5490		ug/L		110	73 - 138
n-Butylbenzene	ND		5000	5460		ug/L		109	66 - 141
tert-Butylbenzene	ND		5000	5500		ug/L		110	70 - 138
Carbon disulfide	ND		5000	4240		ug/L		85	48 - 152
Carbon Tetrachloride	ND		5000	5560		ug/L		111	62 - 164
Chlorobenzene	ND		5000	5400		ug/L		108	80 - 129
Chlorodibromomethane	ND		5000	6120		ug/L		122	66 - 140
Chloroethane	ND		5000	3650		ug/L		73	58 - 137
Chloroform	ND		5000	4710		ug/L		94	66 - 138
Chloromethane	ND		5000	3760		ug/L		75	10 - 169
2-Chlorotoluene	ND		5000	5300		ug/L		106	67 - 138
4-Chlorotoluene	ND		5000	5410		ug/L		108	69 - 138
1,2-Dibromo-3-chloropropane	ND		5000	6160		ug/L		123	52 - 126
1,2-Dibromoethane (EDB)	ND		5000	6130		ug/L		123	75 - 137

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-MS1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	ND		5000	5310		ug/L		106	58 - 140
1,4-Dichlorobenzene	ND		5000	5620		ug/L		112	78 - 126
1,3-Dichlorobenzene	ND		5000	5520		ug/L		110	77 - 131
1,2-Dichlorobenzene	ND		5000	5700		ug/L		114	79 - 128
Dichlorodifluoromethane	ND		5000	3340		ug/L		67	40 - 127
1,1-Dichloroethane	ND		5000	4470		ug/L		89	71 - 139
1,2-Dichloroethane	ND		5000	4560		ug/L		91	64 - 136
cis-1,2-Dichloroethene	4090		5000	8230		ug/L		83	68 - 138
1,1-Dichloroethene	ND		5000	4780		ug/L		96	70 - 142
trans-1,2-Dichloroethene	117		5000	4460		ug/L		87	66 - 143
1,3-Dichloropropane	ND		5000	5580		ug/L		112	72 - 134
1,2-Dichloropropane	ND		5000	4380		ug/L		88	67 - 131
2,2-Dichloropropane	ND		5000	3850		ug/L		77	37 - 175
cis-1,3-Dichloropropene	ND		5000	5350		ug/L		107	71 - 141
trans-1,3-Dichloropropene	ND		5000	5210		ug/L		104	59 - 135
1,1-Dichloropropene	ND		5000	4560		ug/L		91	76 - 139
Ethylbenzene	ND		5000	5490		ug/L		110	79 - 139
Hexachlorobutadiene	ND		5000	5180		ug/L		104	45 - 155
2-Hexanone	ND		25000	33400		ug/L		134	50 - 150
Isopropylbenzene	ND		5000	5860		ug/L		117	80 - 153
p-Isopropyltoluene	ND		5000	5440		ug/L		109	71 - 137
Methyl tert-Butyl Ether	ND		5000	4620		ug/L		92	66 - 141
Methylene Chloride	ND		5000	4320		ug/L		86	64 - 139
4-Methyl-2-pentanone	ND		25000	31300		ug/L		125	50 - 147
Naphthalene	ND		5000	6200		ug/L		124	55 - 140
n-Propylbenzene	ND		5000	5380		ug/L		108	69 - 142
Styrene	ND		5000	5440		ug/L		109	61 - 148
1,1,1,2-Tetrachloroethane	ND		5000	5630		ug/L		113	73 - 141
1,1,2,2-Tetrachloroethane	ND		5000	6460		ug/L		129	56 - 143
Tetrachloroethene	ND		5000	5480		ug/L		110	72 - 145
Toluene	ND		5000	5220		ug/L		104	75 - 136
1,2,3-Trichlorobenzene	ND		5000	6270		ug/L		125	55 - 138
1,2,4-Trichlorobenzene	ND		5000	5970		ug/L		119	60 - 136
1,1,2-Trichloroethane	ND		5000	5720		ug/L		114	74 - 134
1,1,1-Trichloroethane	ND		5000	4770		ug/L		95	76 - 149
Trichloroethene	288		5000	5080		ug/L		96	73 - 144
Trichlorofluoromethane	ND		5000	4020		ug/L		80	58 - 139
1,2,3-Trichloropropane	ND		5000	6200		ug/L		124	53 - 144
1,3,5-Trimethylbenzene	ND		5000	5380		ug/L		108	69 - 139
1,2,4-Trimethylbenzene	ND		5000	5310		ug/L		106	69 - 136
Vinyl chloride	900		5000	4760		ug/L		77	56 - 129
Xylenes, total	ND		15000	16300		ug/L		109	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*109*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8	*104*		*70 - 130*
4-Bromofluorobenzene	*96*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-MSD1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		25000	25700		ug/L		103	45 - 141	2	21
Benzene	ND		5000	4670		ug/L		93	75 - 133	3	17
Bromobenzene	ND		5000	5720		ug/L		114	60 - 138	5	20
Bromochloromethane	ND		5000	5060		ug/L		101	67 - 139	3	17
Bromodichloromethane	ND		5000	4830		ug/L		97	70 - 140	4	18
Bromoform	ND		5000	7110		ug/L		142	42 - 147	2	16
Bromomethane	ND		5000	3590		ug/L		72	16 - 163	8	50
2-Butanone	ND		25000	27400		ug/L		110	50 - 138	2	19
sec-Butylbenzene	ND		5000	5760		ug/L		115	73 - 138	5	16
n-Butylbenzene	ND		5000	5690		ug/L		114	66 - 141	4	18
tert-Butylbenzene	ND		5000	5740		ug/L		115	70 - 138	4	16
Carbon disulfide	ND		5000	4380		ug/L		88	48 - 152	3	21
Carbon Tetrachloride	ND		5000	5610		ug/L		112	62 - 164	0.9	19
Chlorobenzene	ND		5000	5470		ug/L		109	80 - 129	1	14
Chlorodibromomethane	ND		5000	5990		ug/L		120	66 - 140	2	15
Chloroethane	ND		5000	3780		ug/L		76	58 - 137	4	20
Chloroform	ND		5000	4880		ug/L		98	66 - 138	4	18
Chloromethane	ND		5000	3810		ug/L		76	10 - 169	1	31
2-Chlorotoluene	ND		5000	5520		ug/L		110	67 - 138	4	17
4-Chlorotoluene	ND		5000	5600		ug/L		112	69 - 138	4	18
1,2-Dibromo-3-chloropropane	ND		5000	6380	M7	ug/L		128	52 - 126	3	24
1,2-Dibromoethane (EDB)	ND		5000	6160		ug/L		123	75 - 137	0.4	15
Dibromomethane	ND		5000	5370		ug/L		107	58 - 140	1	16
1,4-Dichlorobenzene	ND		5000	5820		ug/L		116	78 - 126	4	15
1,3-Dichlorobenzene	ND		5000	5780		ug/L		116	77 - 131	5	15
1,2-Dichlorobenzene	ND		5000	5970		ug/L		119	79 - 128	5	15
Dichlorodifluoromethane	ND		5000	3400		ug/L		68	40 - 127	2	18
1,1-Dichloroethane	ND		5000	4550		ug/L		91	71 - 139	2	17
1,2-Dichloroethane	ND		5000	4670		ug/L		93	64 - 136	2	17
cis-1,2-Dichloroethene	4090		5000	8350		ug/L		85	68 - 138	1	17
1,1-Dichloroethene	ND		5000	4840		ug/L		97	70 - 142	1	17
trans-1,2-Dichloroethene	117		5000	4550		ug/L		89	66 - 143	2	16
1,3-Dichloropropane	ND		5000	5730		ug/L		115	72 - 134	3	14
1,2-Dichloropropane	ND		5000	4450		ug/L		89	67 - 131	2	17
2,2-Dichloropropane	ND		5000	3900		ug/L		78	37 - 175	1	18
cis-1,3-Dichloropropene	ND		5000	5440		ug/L		109	71 - 141	2	15
trans-1,3-Dichloropropene	ND		5000	5330		ug/L		107	59 - 135	2	14
1,1-Dichloropropene	ND		5000	4700		ug/L		94	76 - 139	3	17
Ethylbenzene	ND		5000	5560		ug/L		111	79 - 139	1	15
Hexachlorobutadiene	ND		5000	5550		ug/L		111	45 - 155	7	23
2-Hexanone	ND		25000	33600		ug/L		135	50 - 150	0.7	15
Isopropylbenzene	ND		5000	5930		ug/L		119	80 - 153	1	16
p-Isopropyltoluene	ND		5000	5680		ug/L		114	71 - 137	4	16
Methyl tert-Butyl Ether	ND		5000	4790		ug/L		96	66 - 141	4	16
Methylene Chloride	ND		5000	4480		ug/L		90	64 - 139	4	17
4-Methyl-2-pentanone	ND		25000	31600		ug/L		126	50 - 147	0.9	17
Naphthalene	ND		5000	6620		ug/L		132	55 - 140	7	26
n-Propylbenzene	ND		5000	5570		ug/L		111	69 - 142	4	17
Styrene	ND		5000	5540		ug/L		111	61 - 148	2	24

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0352-MSD1
Matrix: Water
Analysis Batch: V007196

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 12E0352_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Du Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5000	5700		ug/L		114	73 - 141	1	16
1,1,2,2-Tetrachloroethane	ND		5000	6710		ug/L		134	56 - 143	4	20
Tetrachloroethene	ND		5000	5530		ug/L		111	72 - 145	0.9	16
Toluene	ND		5000	5320		ug/L		106	75 - 136	2	15
1,2,3-Trichlorobenzene	ND		5000	6810		ug/L		136	55 - 138	8	25
1,2,4-Trichlorobenzene	ND		5000	6500		ug/L		130	60 - 136	9	19
1,1,2-Trichloroethane	ND		5000	5820		ug/L		116	74 - 134	2	15
1,1,1-Trichloroethane	ND		5000	4880		ug/L		98	76 - 149	2	17
Trichloroethene	288		5000	5210		ug/L		98	73 - 144	3	17
Trichlorofluoromethane	ND		5000	4060		ug/L		81	58 - 139	0.8	18
1,2,3-Trichloropropane	ND		5000	6500		ug/L		130	53 - 144	5	19
1,3,5-Trimethylbenzene	ND		5000	5620		ug/L		112	69 - 139	4	17
1,2,4-Trimethylbenzene	ND		5000	5510		ug/L		110	69 - 136	4	16
Vinyl chloride	900		5000	4840		ug/L		79	56 - 129	2	17
Xylenes, total	ND		15000	16500		ug/L		110	74 - 141	0.9	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*108*		*70 - 130*
Dibromofluoromethane	*97*		*70 - 130*
Toluene-d8	*103*		*70 - 130*
4-Bromofluorobenzene	*98*		*70 - 130*

Lab Sample ID: 12E0618-BLK1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Benzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Bromobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Bromochloromethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Bromodichloromethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Bromoform	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Bromomethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
2-Butanone	ND		50.0		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
sec-Butylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
n-Butylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
tert-Butylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Carbon disulfide	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Carbon Tetrachloride	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Chlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Chlorodibromomethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Chloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Chloroform	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Chloromethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
2-Chlorotoluene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
4-Chlorotoluene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2-Dibromo-3-chloropropane	ND		10.0		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2-Dibromoethane (EDB)	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-BLK1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,4-Dichlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,3-Dichlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2-Dichlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Dichlorodifluoromethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1-Dichloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2-Dichloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1-Dichloroethene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,3-Dichloropropane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2-Dichloropropane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
2,2-Dichloropropane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1-Dichloropropene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Ethylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Hexachlorobutadiene	ND		2.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
2-Hexanone	ND		10.0		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Isopropylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
p-Isopropyltoluene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Methyl tert-Butyl Ether	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Methylene Chloride	ND		5.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
4-Methyl-2-pentanone	ND		10.0		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Naphthalene	ND		5.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
n-Propylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Styrene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Tetrachloroethene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Toluene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1,2-Trichloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,1,1-Trichloroethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Trichloroethene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Trichlorofluoromethane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2,3-Trichloropropane	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Vinyl chloride	ND		1.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00
Xylenes, total	ND		3.00		ug/L		05/02/12 06:33	05/02/12 09:15	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*70 - 130*	*05/02/12 06:33*	*05/02/12 09:15*	*1.00*
Dibromofluoromethane	*96*		*70 - 130*	*05/02/12 06:33*	*05/02/12 09:15*	*1.00*
Toluene-d8	*106*		*70 - 130*	*05/02/12 06:33*	*05/02/12 09:15*	*1.00*
4-Bromofluorobenzene	*97*		*70 - 130*	*05/02/12 06:33*	*05/02/12 09:15*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-BS1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	228		ug/L		91	54 - 145
Benzene	50.0	42.3		ug/L		85	80 - 121
Bromobenzene	50.0	52.6		ug/L		105	68 - 130
Bromochloromethane	50.0	45.4		ug/L		91	78 - 129
Bromodichloromethane	50.0	43.5		ug/L		87	75 - 129
Bromoform	50.0	61.7		ug/L		123	46 - 145
Bromomethane	50.0	40.0		ug/L		80	41 - 150
2-Butanone	250	220		ug/L		88	62 - 133
sec-Butylbenzene	50.0	52.5		ug/L		105	76 - 128
n-Butylbenzene	50.0	52.0		ug/L		104	68 - 132
tert-Butylbenzene	50.0	53.1		ug/L		106	76 - 126
Carbon disulfide	50.0	40.3		ug/L		81	77 - 126
Carbon Tetrachloride	50.0	49.9		ug/L		100	64 - 147
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120
Chlorodibromomethane	50.0	56.6		ug/L		113	69 - 133
Chloroethane	50.0	37.0		ug/L		74	72 - 120
Chloroform	50.0	46.6		ug/L		93	73 - 129
Chloromethane	50.0	38.6		ug/L		77	12 - 150
2-Chlorotoluene	50.0	50.4		ug/L		101	75 - 126
4-Chlorotoluene	50.0	52.2		ug/L		104	75 - 130
1,2-Dibromo-3-chloropropane	50.0	53.9		ug/L		108	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.5		ug/L		109	80 - 129
Dibromomethane	50.0	46.9		ug/L		94	71 - 125
1,4-Dichlorobenzene	50.0	54.2		ug/L		108	80 - 120
1,3-Dichlorobenzene	50.0	54.0		ug/L		108	80 - 122
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	80 - 121
Dichlorodifluoromethane	50.0	38.0		ug/L		76	37 - 127
1,1-Dichloroethane	50.0	41.0		ug/L		82	78 - 125
1,2-Dichloroethane	50.0	42.0		ug/L		84	77 - 121
cis-1,2-Dichloroethene	50.0	39.8		ug/L		80	76 - 125
1,1-Dichloroethene	50.0	43.8		ug/L		88	79 - 124
trans-1,2-Dichloroethene	50.0	40.8		ug/L		82	79 - 126
1,3-Dichloropropane	50.0	50.9		ug/L		102	80 - 125
1,2-Dichloropropane	50.0	41.0		ug/L		82	75 - 120
2,2-Dichloropropane	50.0	42.8		ug/L		86	43 - 161
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	74 - 140
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	63 - 134
1,1-Dichloropropene	50.0	42.2		ug/L		84	80 - 122
Ethylbenzene	50.0	50.2		ug/L		100	80 - 130
Hexachlorobutadiene	50.0	52.1		ug/L		104	49 - 146
2-Hexanone	250	273		ug/L		109	60 - 142
Isopropylbenzene	50.0	53.7		ug/L		107	80 - 141
p-Isopropyltoluene	50.0	52.0		ug/L		104	75 - 128
Methyl tert-Butyl Ether	50.0	40.7		ug/L		81	72 - 133
Methylene Chloride	50.0	40.8		ug/L		82	79 - 123
4-Methyl-2-pentanone	250	254		ug/L		102	60 - 137
Naphthalene	50.0	57.2		ug/L		114	62 - 138
n-Propylbenzene	50.0	51.1		ug/L		102	75 - 129
Styrene	50.0	50.0		ug/L		100	80 - 127

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-BS1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/L		107	74 - 135
1,1,2,2-Tetrachloroethane	50.0	56.0		ug/L		112	69 - 131
Tetrachloroethene	50.0	52.8		ug/L		106	80 - 126
Toluene	50.0	49.8		ug/L		100	80 - 126
1,2,3-Trichlorobenzene	50.0	61.5		ug/L		123	62 - 133
1,2,4-Trichlorobenzene	50.0	59.9		ug/L		120	63 - 133
1,1,2-Trichloroethane	50.0	52.6		ug/L		105	80 - 124
1,1,1-Trichloroethane	50.0	43.0		ug/L		86	78 - 135
Trichloroethene	50.0	44.6		ug/L		89	80 - 123
Trichlorofluoromethane	50.0	38.8		ug/L		78	65 - 124
1,2,3-Trichloropropane	50.0	57.1		ug/L		114	70 - 131
1,3,5-Trimethylbenzene	50.0	52.3		ug/L		105	77 - 127
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	77 - 126
Vinyl chloride	50.0	38.6		ug/L		77	68 - 120
Xylenes, total	150	149		ug/L		100	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*103*		*70 - 130*
Dibromofluoromethane	*94*		*70 - 130*
Toluene-d8	*104*		*70 - 130*
4-Bromofluorobenzene	*100*		*70 - 130*

Lab Sample ID: 12E0618-BSD1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	225		ug/L		90	54 - 145	1	21
Benzene	50.0	42.2		ug/L		84	80 - 121	0.07	17
Bromobenzene	50.0	52.4		ug/L		105	68 - 130	0.4	20
Bromochloromethane	50.0	45.0		ug/L		90	78 - 129	0.8	17
Bromodichloromethane	50.0	43.4		ug/L		87	75 - 129	0.07	18
Bromoform	50.0	61.8		ug/L		124	46 - 145	0.2	16
Bromomethane	50.0	40.4		ug/L		81	41 - 150	1	50
2-Butanone	250	218		ug/L		87	62 - 133	1	19
sec-Butylbenzene	50.0	52.4		ug/L		105	76 - 128	0.3	16
n-Butylbenzene	50.0	51.6		ug/L		103	68 - 132	0.8	18
tert-Butylbenzene	50.0	53.4		ug/L		107	76 - 126	0.5	16
Carbon disulfide	50.0	40.1		ug/L		80	77 - 126	0.6	21
Carbon Tetrachloride	50.0	49.4		ug/L		99	64 - 147	0.9	19
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120	0.6	14
Chlorodibromomethane	50.0	57.0		ug/L		114	69 - 133	0.7	15
Chloroethane	50.0	36.3		ug/L		73	72 - 120	2	20
Chloroform	50.0	45.8		ug/L		92	73 - 129	2	18
Chloromethane	50.0	37.8		ug/L		76	12 - 150	2	31
2-Chlorotoluene	50.0	50.9		ug/L		102	75 - 126	1	17
4-Chlorotoluene	50.0	51.9		ug/L		104	75 - 130	0.6	18
1,2-Dibromo-3-chloropropane	50.0	52.9		ug/L		106	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	54.2		ug/L		108	80 - 129	0.6	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-BSD1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	50.0	46.4		ug/L		93	71 - 125	1	16
1,4-Dichlorobenzene	50.0	54.1		ug/L		108	80 - 120	0.2	15
1,3-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 122	1	15
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	80 - 121	0.3	15
Dichlorodifluoromethane	50.0	37.5		ug/L		75	37 - 127	2	18
1,1-Dichloroethane	50.0	40.7		ug/L		81	78 - 125	0.9	17
1,2-Dichloroethane	50.0	41.6		ug/L		83	77 - 121	1	17
cis-1,2-Dichloroethene	50.0	39.7		ug/L		79	76 - 125	0.2	17
1,1-Dichloroethene	50.0	43.4		ug/L		87	79 - 124	0.8	17
trans-1,2-Dichloroethene	50.0	40.2		ug/L		80	79 - 126	1	16
1,3-Dichloropropane	50.0	50.8		ug/L		102	80 - 125	0.2	14
1,2-Dichloropropane	50.0	40.8		ug/L		82	75 - 120	0.3	17
2,2-Dichloropropane	50.0	41.8		ug/L		84	43 - 161	2	18
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	74 - 140	0.8	15
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	63 - 134	0.1	14
1,1-Dichloropropene	50.0	41.3		ug/L		83	80 - 122	2	17
Ethylbenzene	50.0	50.2		ug/L		100	80 - 130	0.08	15
Hexachlorobutadiene	50.0	51.6		ug/L		103	49 - 146	0.9	23
2-Hexanone	250	272		ug/L		109	60 - 142	0.6	15
Isopropylbenzene	50.0	53.6		ug/L		107	80 - 141	0.2	16
p-Isopropyltoluene	50.0	51.6		ug/L		103	75 - 128	0.9	16
Methyl tert-Butyl Ether	50.0	40.5		ug/L		81	72 - 133	0.6	16
Methylene Chloride	50.0	41.0		ug/L		82	79 - 123	0.6	17
4-Methyl-2-pentanone	250	258		ug/L		103	60 - 137	2	17
Naphthalene	50.0	56.9		ug/L		114	62 - 138	0.5	26
n-Propylbenzene	50.0	51.3		ug/L		103	75 - 129	0.4	17
Styrene	50.0	50.2		ug/L		100	80 - 127	0.3	24
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	74 - 135	1	16
1,1,2,2-Tetrachloroethane	50.0	56.5		ug/L		113	69 - 131	0.8	20
Tetrachloroethene	50.0	52.9		ug/L		106	80 - 126	0.2	16
Toluene	50.0	50.0		ug/L		100	80 - 126	0.3	15
1,2,3-Trichlorobenzene	50.0	61.9		ug/L		124	62 - 133	0.7	25
1,2,4-Trichlorobenzene	50.0	59.2		ug/L		118	63 - 133	1	19
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 124	1	15
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	78 - 135	1	17
Trichloroethene	50.0	44.5		ug/L		89	80 - 123	0.1	17
Trichlorofluoromethane	50.0	38.8		ug/L		78	65 - 124	0.2	18
1,2,3-Trichloropropane	50.0	56.8		ug/L		114	70 - 131	0.6	19
1,3,5-Trimethylbenzene	50.0	52.2		ug/L		104	77 - 127	0.2	17
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	77 - 126	0.2	16
Vinyl chloride	50.0	38.4		ug/L		77	68 - 120	0.6	17
Xylenes, total	150	149		ug/L		99	80 - 132	0.5	15

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*102*		*70 - 130*
Dibromofluoromethane	*93*		*70 - 130*
Toluene-d8	*106*		*70 - 130*
4-Bromofluorobenzene	*102*		*70 - 130*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-MS1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: MCA-5-042412
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250000	233000		ug/L		93	45 - 141
Benzene	ND		50000	43800		ug/L		88	75 - 133
Bromobenzene	ND		50000	56100		ug/L		112	60 - 138
Bromochloromethane	ND		50000	48700		ug/L		97	67 - 139
Bromodichloromethane	ND		50000	47200		ug/L		94	70 - 140
Bromoform	ND		50000	70500		ug/L		141	42 - 147
Bromomethane	ND		50000	29500		ug/L		59	16 - 163
2-Butanone	ND		250000	276000		ug/L		111	50 - 138
sec-Butylbenzene	ND		50000	55400		ug/L		111	73 - 138
n-Butylbenzene	ND		50000	54200		ug/L		108	66 - 141
tert-Butylbenzene	ND		50000	55500		ug/L		111	70 - 138
Carbon disulfide	ND		50000	34400		ug/L		69	48 - 152
Carbon Tetrachloride	ND		50000	52800		ug/L		106	62 - 164
Chlorobenzene	ND		50000	53500		ug/L		107	80 - 129
Chlorodibromomethane	ND		50000	59200		ug/L		118	66 - 140
Chloroethane	ND		50000	32100		ug/L		64	58 - 137
Chloroform	ND		50000	46300		ug/L		93	66 - 138
Chloromethane	ND		50000	34000		ug/L		68	10 - 169
2-Chlorotoluene	ND		50000	53600		ug/L		107	67 - 138
4-Chlorotoluene	ND		50000	54700		ug/L		109	69 - 138
1,2-Dibromo-3-chloropropane	ND		50000	67900		ug/L		136	52 - 126
1,2-Dibromoethane (EDB)	ND		50000	60500		ug/L		121	75 - 137
Dibromomethane	ND		50000	54000		ug/L		108	58 - 140
1,4-Dichlorobenzene	ND		50000	56800		ug/L		114	78 - 126
1,3-Dichlorobenzene	ND		50000	56500		ug/L		113	77 - 131
1,2-Dichlorobenzene	ND		50000	58900		ug/L		118	79 - 128
Dichlorodifluoromethane	ND		50000	31000		ug/L		62	40 - 127
1,1-Dichloroethane	ND		50000	42500		ug/L		85	71 - 139
1,2-Dichloroethane	ND		50000	44600		ug/L		89	64 - 136
cis-1,2-Dichloroethene	33100	PV	50000	69200		ug/L		72	68 - 138
1,1-Dichloroethene	ND		50000	43000		ug/L		86	70 - 142
trans-1,2-Dichloroethene	650		50000	40700		ug/L		80	66 - 143
1,3-Dichloropropane	ND		50000	56000		ug/L		112	72 - 134
1,2-Dichloropropane	ND		50000	43100		ug/L		86	67 - 131
2,2-Dichloropropane	ND		50000	34500		ug/L		69	37 - 175
cis-1,3-Dichloropropene	ND		50000	52800		ug/L		106	71 - 141
trans-1,3-Dichloropropene	ND		50000	51600		ug/L		103	59 - 135
1,1-Dichloropropene	ND		50000	42900		ug/L		86	76 - 139
Ethylbenzene	ND		50000	54200		ug/L		108	79 - 139
Hexachlorobutadiene	ND		50000	52600		ug/L		105	45 - 155
2-Hexanone	ND		250000	361000		ug/L		144	50 - 150
Isopropylbenzene	ND		50000	58400		ug/L		117	80 - 153
p-Isopropyltoluene	ND		50000	54500		ug/L		109	71 - 137
Methyl tert-Butyl Ether	ND		50000	46200		ug/L		92	66 - 141
Methylene Chloride	ND		50000	42000		ug/L		84	64 - 139
4-Methyl-2-pentanone	ND		250000	336000		ug/L		134	50 - 147
Naphthalene	ND		50000	68100		ug/L		136	55 - 140
n-Propylbenzene	ND		50000	53500		ug/L		107	69 - 142
Styrene	ND		50000	54600		ug/L		109	61 - 148

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-MS1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: MCA-5-042412
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50000	58000		ug/L		116	73 - 141
1,1,2,2-Tetrachloroethane	ND		50000	68900		ug/L		138	56 - 143
Tetrachloroethene	ND		50000	51300		ug/L		103	72 - 145
Toluene	ND		50000	50100		ug/L		100	75 - 136
1,2,3-Trichlorobenzene	ND		50000	68500		ug/L		137	55 - 138
1,2,4-Trichlorobenzene	ND		50000	62900		ug/L		126	60 - 136
1,1,2-Trichloroethane	ND		50000	57500		ug/L		115	74 - 134
1,1,1-Trichloroethane	ND		50000	45800		ug/L		92	76 - 149
Trichloroethene	44900		50000	86300		ug/L		83	73 - 144
Trichlorofluoromethane	ND		50000	35600		ug/L		71	58 - 139
1,2,3-Trichloropropane	ND		50000	65300		ug/L		131	53 - 144
1,3,5-Trimethylbenzene	ND		50000	54600		ug/L		109	69 - 139
1,2,4-Trimethylbenzene	ND		50000	53800		ug/L		108	69 - 136
Vinyl chloride	5100		50000	40300		ug/L		70	56 - 129
Xylenes, total	ND		150000	162000		ug/L		108	74 - 141

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*106*		*70 - 130*
Dibromofluoromethane	*94*		*70 - 130*
Toluene-d8	*102*		*70 - 130*
4-Bromofluorobenzene	*99*		*70 - 130*

Lab Sample ID: 12E0618-MSD1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: MCA-5-042412
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250000	232000		ug/L		93	45 - 141	0.7	21
Benzene	ND		50000	43700		ug/L		87	75 - 133	0.2	17
Bromobenzene	ND		50000	56200		ug/L		112	60 - 138	0.09	20
Bromochloromethane	ND		50000	49200		ug/L		98	67 - 139	1	17
Bromodichloromethane	ND		50000	47000		ug/L		94	70 - 140	0.4	18
Bromoform	ND		50000	69400		ug/L		139	42 - 147	2	16
Bromomethane	ND		50000	30800		ug/L		62	16 - 163	4	50
2-Butanone	ND		250000	273000		ug/L		109	50 - 138	1	19
sec-Butylbenzene	ND		50000	56800		ug/L		114	73 - 138	2	16
n-Butylbenzene	ND		50000	56300		ug/L		113	66 - 141	4	18
tert-Butylbenzene	ND		50000	56900		ug/L		114	70 - 138	2	16
Carbon disulfide	ND		50000	34800		ug/L		70	48 - 152	1	21
Carbon Tetrachloride	ND		50000	52400		ug/L		105	62 - 164	0.7	19
Chlorobenzene	ND		50000	53100		ug/L		106	80 - 129	0.7	14
Chlorodibromomethane	ND		50000	58000		ug/L		116	66 - 140	2	15
Chloroethane	ND		50000	31500		ug/L		63	58 - 137	2	20
Chloroform	ND		50000	46000		ug/L		92	66 - 138	0.5	18
Chloromethane	ND		50000	34600		ug/L		69	10 - 169	2	31
2-Chlorotoluene	ND		50000	53800		ug/L		108	67 - 138	0.4	17
4-Chlorotoluene	ND		50000	54900		ug/L		110	69 - 138	0.3	18
1,2-Dibromo-3-chloropropane	ND		50000	67100		ug/L		134	52 - 126	1	24
1,2-Dibromoethane (EDB)	ND		50000	59800		ug/L		120	75 - 137	1	15

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12E0618-MSD1
Matrix: Water
Analysis Batch: V007263

Client Sample ID: MCA-5-042412
Prep Type: Total
Prep Batch: 12E0618_P

Analyte	Sample Result	Sample Qualifier	Spike Added	trix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		50000	52400		ug/L		105	58 - 140	3	16
1,4-Dichlorobenzene	ND		50000	57500		ug/L		115	78 - 126	1	15
1,3-Dichlorobenzene	ND		50000	57700		ug/L		115	77 - 131	2	15
1,2-Dichlorobenzene	ND		50000	59800		ug/L		120	79 - 128	2	15
Dichlorodifluoromethane	ND		50000	31200		ug/L		62	40 - 127	0.7	18
1,1-Dichloroethane	ND		50000	42900		ug/L		86	71 - 139	1	17
1,2-Dichloroethane	ND		50000	44300		ug/L		89	64 - 136	0.7	17
cis-1,2-Dichloroethene	33100	PV	50000	69700		ug/L		73	68 - 138	0.7	17
1,1-Dichloroethene	ND		50000	43500		ug/L		87	70 - 142	1	17
trans-1,2-Dichloroethene	650		50000	40400		ug/L		80	66 - 143	0.7	16
1,3-Dichloropropane	ND		50000	55000		ug/L		110	72 - 134	2	14
1,2-Dichloropropane	ND		50000	43300		ug/L		87	67 - 131	0.4	17
2,2-Dichloropropane	ND		50000	34100		ug/L		68	37 - 175	1	18
cis-1,3-Dichloropropene	ND		50000	51700		ug/L		103	71 - 141	2	15
trans-1,3-Dichloropropene	ND		50000	50900		ug/L		102	59 - 135	1	14
1,1-Dichloropropene	ND		50000	43200		ug/L		86	76 - 139	0.7	17
Ethylbenzene	ND		50000	53700		ug/L		107	79 - 139	0.9	15
Hexachlorobutadiene	ND		50000	56400		ug/L		113	45 - 155	7	23
2-Hexanone	ND		250000	350000		ug/L		140	50 - 150	3	15
Isopropylbenzene	ND		50000	57700		ug/L		115	80 - 153	1	16
p-Isopropyltoluene	ND		50000	56000		ug/L		112	71 - 137	3	16
Methyl tert-Butyl Ether	ND		50000	46800		ug/L		94	66 - 141	1	16
Methylene Chloride	ND		50000	42200		ug/L		84	64 - 139	0.6	17
4-Methyl-2-pentanone	ND		250000	321000		ug/L		128	50 - 147	5	17
Naphthalene	ND		50000	70600		ug/L		141	55 - 140	4	26
n-Propylbenzene	ND		50000	54800		ug/L		110	69 - 142	2	17
Styrene	ND		50000	53600		ug/L		107	61 - 148	2	24
1,1,1,2-Tetrachloroethane	ND		50000	57600		ug/L		115	73 - 141	0.7	16
1,1,2,2-Tetrachloroethane	ND		50000	68800		ug/L		138	56 - 143	0.07	20
Tetrachloroethene	ND		50000	50900		ug/L		102	72 - 145	0.8	16
Toluene	ND		50000	49600		ug/L		99	75 - 136	0.8	15
1,2,3-Trichlorobenzene	ND		50000	72800		ug/L		146	55 - 138	6	25
1,2,4-Trichlorobenzene	ND		50000	67600		ug/L		135	60 - 136	7	19
1,1,2-Trichloroethane	ND		50000	56700		ug/L		113	74 - 134	1	15
1,1,1-Trichloroethane	ND		50000	46000		ug/L		92	76 - 149	0.4	17
Trichloroethene	44900		50000	86300		ug/L		83	73 - 144	0.01	17
Trichlorofluoromethane	ND		50000	36100		ug/L		72	58 - 139	1	18
1,2,3-Trichloropropane	ND		50000	65300		ug/L		131	53 - 144	0.02	19
1,3,5-Trimethylbenzene	ND		50000	55300		ug/L		111	69 - 139	1	17
1,2,4-Trimethylbenzene	ND		50000	54200		ug/L		108	69 - 136	0.9	16
Vinyl chloride	5100		50000	41100		ug/L		72	56 - 129	2	17
Xylenes, total	ND		150000	160000		ug/L		106	74 - 141	1	15

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*70 - 130*
Dibromofluoromethane	*93*		*70 - 130*
Toluene-d8	*101*		*70 - 130*
4-Bromofluorobenzene	*100*		*70 - 130*

GCMS Volatiles

Analysis Batch: V007125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0011-BLK1	Method Blank	Total	Water	SW846 8260B	12E0011_P
12E0011-BS1	Lab Control Sample	Total	Water	SW846 8260B	12E0011_P
12E0011-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	12E0011_P
NWD3226-09	TB-02-042512	Total	Water	SW846 8260B	12E0011_P

Analysis Batch: V007196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0352-BLK1	Method Blank	Total	Water	SW846 8260B	12E0352_P
12E0352-BS1	Lab Control Sample	Total	Water	SW846 8260B	12E0352_P
12E0352-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	12E0352_P
12E0352-MS1	Matrix Spike	Total	Water	SW846 8260B	12E0352_P
12E0352-MSD1	Matrix Spike Duplicate	Total	Water	SW846 8260B	12E0352_P
NWD3226-04 - RE1	M+A-115-042512	Total	Ground Water	SW846 8260B	12E0352_P
NWD3226-05 - RE1	M+A-116-042412	Total	Ground Water	SW846 8260B	12E0352_P
NWD3226-07 - RE1	M+A-122-042512	Total	Ground Water	SW846 8260B	12E0352_P
NWD3226-08 - RE1	M+A-126-042412	Total	Ground Water	SW846 8260B	12E0352_P

Analysis Batch: V007263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0618-BLK1	Method Blank	Total	Water	SW846 8260B	12E0618_P
12E0618-BS1	Lab Control Sample	Total	Water	SW846 8260B	12E0618_P
12E0618-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	12E0618_P
12E0618-MS1	MCA-5-042412	Total	Water	SW846 8260B	12E0618_P
12E0618-MSD1	MCA-5-042412	Total	Water	SW846 8260B	12E0618_P
NWD3226-01 - RE1	MCA-5-042412	Total	Ground Water	SW846 8260B	12E0618_P
NWD3226-01 - RE2	MCA-5-042412	Total	Ground Water	SW846 8260B	12E0618_P
NWD3226-02 - RE1	M+A-104-042512	Total	Ground Water	SW846 8260B	12E0618_P

Analysis Batch: V007579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D5708-BLK1	Method Blank	Total	Water	SW846 8260B	12D5708_P
12D5708-BS1	Lab Control Sample	Total	Water	SW846 8260B	12D5708_P
12D5708-BSD1	Lab Control Sample Dup	Total	Water	SW846 8260B	12D5708_P
12D5708-MS1	M+A-112-042512	Total	Water	SW846 8260B	12D5708_P
12D5708-MSD1	M+A-112-042512	Total	Water	SW846 8260B	12D5708_P
NWD3226-03 - RE2	M+A-111-042412	Total	Ground Water	SW846 8260B	12D5708_P
NWD3226-03 - RE3	M+A-111-042412	Total	Ground Water	SW846 8260B	12D5708_P
NWD3226-06 - RE2	M+A-112-042512	Total	Ground Water	SW846 8260B	12D5708_P

Prep Batch: 12D5708_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D5708-BLK1	Method Blank	Total	Water	EPA 5030B	
12D5708-BS1	Lab Control Sample	Total	Water	EPA 5030B	
12D5708-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
12D5708-MS1	M+A-112-042512	Total	Water	EPA 5030B	
12D5708-MSD1	M+A-112-042512	Total	Water	EPA 5030B	
NWD3226-03 - RE2	M+A-111-042412	Total	Ground Water	EPA 5030B	
NWD3226-03 - RE3	M+A-111-042412	Total	Ground Water	EPA 5030B	
NWD3226-06 - RE2	M+A-112-042512	Total	Ground Water	EPA 5030B	

GCMS Volatiles (Continued)

Prep Batch: 12E0011_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0011-BLK1	Method Blank	Total	Water	EPA 5030B	
12E0011-BS1	Lab Control Sample	Total	Water	EPA 5030B	
12E0011-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
NWD3226-09	TB-02-042512	Total	Water	EPA 5030B	

Prep Batch: 12E0352_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0352-BLK1	Method Blank	Total	Water	EPA 5030B	
12E0352-BS1	Lab Control Sample	Total	Water	EPA 5030B	
12E0352-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
12E0352-MS1	Matrix Spike	Total	Water	EPA 5030B	
12E0352-MSD1	Matrix Spike Duplicate	Total	Water	EPA 5030B	
NWD3226-04 - RE1	M+A-115-042512	Total	Ground Water	EPA 5030B	
NWD3226-05 - RE1	M+A-116-042412	Total	Ground Water	EPA 5030B	
NWD3226-07 - RE1	M+A-122-042512	Total	Ground Water	EPA 5030B	
NWD3226-08 - RE1	M+A-126-042412	Total	Ground Water	EPA 5030B	

Prep Batch: 12E0618_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12E0618-BLK1	Method Blank	Total	Water	EPA 5030B	
12E0618-BS1	Lab Control Sample	Total	Water	EPA 5030B	
12E0618-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
12E0618-MS1	MCA-5-042412	Total	Water	EPA 5030B	
12E0618-MSD1	MCA-5-042412	Total	Water	EPA 5030B	
NWD3226-01 - RE1	MCA-5-042412	Total	Ground Water	EPA 5030B	
NWD3226-01 - RE2	MCA-5-042412	Total	Ground Water	EPA 5030B	
NWD3226-02 - RE1	M+A-104-042512	Total	Ground Water	EPA 5030B	

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: MCA-5-042412 — **Lab Sample ID: NWD3226-01**
Date Collected: 04/24/12 16:00 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0618_P	05/02/12 06:33	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	100	V007263	05/02/12 10:36	AJF	TAL NSH
Total	Prep	EPA 5030B	RE2	1.00	12E0618_P	05/02/12 06:33	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE2	1000	V007263	05/02/12 11:03	AJF	TAL NSH

Client Sample ID: M+A-104-042512 — **Lab Sample ID: NWD3226-02**
Date Collected: 04/25/12 10:30 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0618_P	05/02/12 06:33	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1000	V007263	05/02/12 11:31	AJF	TAL NSH

Client Sample ID: M+A-111-042412 — **Lab Sample ID: NWD3226-03**
Date Collected: 04/24/12 15:20 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE2	1.00	12D5708_P	05/08/12 04:47	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE2	10.0	V007579	05/08/12 08:04	AJF	TAL NSH
Total	Prep	EPA 5030B	RE3	1.00	12D5708_P	05/08/12 04:47	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE3	100	V007579	05/08/12 08:31	AJF	TAL NSH

Client Sample ID: M+A-115-042512 — **Lab Sample ID: NWD3226-04**
Date Collected: 04/25/12 10:20 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0352_P	05/01/12 08:25	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V007196	05/01/12 17:28	AJF	TAL NSH

Client Sample ID: M+A-116-042412 — **Lab Sample ID: NWD3226-05**
Date Collected: 04/24/12 14:40 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0352_P	05/01/12 08:25	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V007196	05/01/12 17:55	AJF	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Client Sample ID: M+A-112-042512 — **Lab Sample ID: NWD3226-06**
Date Collected: 04/25/12 11:50 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE2	1.00	12D5708_P	05/08/12 04:47	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE2	20.0	V007579	05/08/12 08:58	AJF	TAL NSH

Client Sample ID: M+A-122-042512 — **Lab Sample ID: NWD3226-07**
Date Collected: 04/25/12 09:00 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0352_P	05/01/12 08:25	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V007196	05/01/12 18:23	AJF	TAL NSH

Client Sample ID: M+A-126-042412 — **Lab Sample ID: NWD3226-08**
Date Collected: 04/24/12 14:30 — Matrix: Ground Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B	RE1	1.00	12E0352_P	05/01/12 08:25	AJF	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V007196	05/01/12 18:50	AJF	TAL NSH

Client Sample ID: TB-02-042512 — **Lab Sample ID: NWD3226-09**
Date Collected: 04/25/12 12:00 — Matrix: Water
Date Received: 04/26/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	12E0011_P	04/28/12 07:02	AJF	TAL NSH
Total	Analysis	SW846 8260B		1.00	V007125	04/28/12 09:43	AJF	TAL NSH

Laboratory References:

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

Method Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Method	Method Description	Protocol	Laboratory
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH

Protocol References:

Laboratory References:

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

Certification Summary

Client: Mabbett & Associates, Inc. (10615)
Project/Site: 1998002.311 HTB

TestAmerica Job ID: NWD3226

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
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	State Program	4	90038
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA110014
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 (UST)	State Program	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 DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	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	Federal		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

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 RECI

NWD3226

Cooler Received/Opened On 4/26/2012@ 8:20

1. Tracking # 9452 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 5.8 *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) [initials]

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) [initials]

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) [initials]

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) [initials]

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

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 63180

[initials] 4/27/12 [initials] 4/27/12

-05
10
214
@
1445
on
Cabl

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

5/10/2012

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)")

5/10/2012

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) Jonathan Nicoll
SamplerSignature:

TA Account #: 1408030 PO #: 4771
Invoice to: Mabbett & Associates, Inc. (10615)
Report to: Christopher Mabbett
Project Name: Bodycote 1998002.311 HTB
Facility ID: 1998002.311 HTB
Reg District (CA):
Site Address:
City,State,Zip: Illinois

NWD3226
05/10/12 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: 8260B Volatile Organics	RUSH TAT (Pre Schedule)*
1	MCA-5-042412	4/24/12	1600	3	X					X						X						X	
2	M+A-101-042512	4/25/12	1030	3	X					X						X						X	
3	M+A-111-042412	4/24/12	1520	3	X					X						X						X	
4	M+A-115-042512	4/25/12	1020	3	X					X						X						X	
5	M+A-116-042412	4/24/12	1440	3	X					X						X						X	
6	M+A-112-042512	4/25/12	1150	3	X					X						X						X	
7	M+A-122-042512	4/25/12	0900	3	X					X						X						X	
8	M+A-126-042412	4/24/12	1430	3	X					X						X						X	
9	TB-02-042512	4/25/12	1200	2						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 # 29236
FedEx
4955 3557 9452

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Jonathan Nicoll	4/25/12	1300	[signature]	4/26/12	0830			
Shipped Via:			Shipped Via:					
Received for TestAmerica by:	Date:	Time:	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

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-8211-1
Client Project/Site: Bodycote-SemiAnnual Event (October)

For:
Mabbett & Associates, Inc.
5 Alfred Circle
Bedford, Massachusetts 01730

Attn: Christopher Mabbett

Authorized for release by:
10/15/2012 10:28:43 AM

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8211-1	MCA-5-100212	Water	10/02/12 08:45	10/03/12 08:20
490-8211-2	M&A-104-100112	Water	10/01/12 15:45	10/03/12 08:20
490-8211-3	M&A-111-100212	Water	10/02/12 09:45	10/03/12 08:20
490-8211-4	M&A-112-100112	Water	10/01/12 11:30	10/03/12 08:20
490-8211-5	M&A-115-100112	Water	10/01/12 11:45	10/03/12 08:20
490-8211-6	M&A-116-100112	Water	10/01/12 14:15	10/03/12 08:20
490-8211-7	M&A-122-100112	Water	10/01/12 12:00	10/03/12 08:20
490-8211-8	M&A-126-100121	Water	10/02/12 11:15	10/03/12 08:20
490-8211-9	Trip Blank	Water	10/01/12 00:01	10/03/12 08:20

Job ID: 490-8211-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-8211-1

Comments
No additional comments.

Receipt
The samples were received on 10/3/2012 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 26827 exceeded control limits for the following analytes: Chloroethane and 1,1-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: MCA-5-100212 (490-8211-1).

Method(s) 8260B: Due to the high concentration of target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 26827 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 26948.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 26948 exceeded control limits for the following analytes: Chloroethane and 1,1-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 27099 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: M&A-112-100112 (490-8211-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 27169.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: M&A-111-100212 (490-8211-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 27497 exceeded control limits for the following analytes: Chloroethane, 1,1-Dichloroethene, and Ethanol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 27497.

Method(s) 8260B: The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: M&A-104-100112 (490-8211-2). Sample was analyzed past 7 day unpreserved hold time.

Method(s) 8260B: The method blank for preparation batch 27497 contained 123-Trichlorobenzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

Job ID: 490-8211-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

VOA Prep

No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

5

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
QC	Quality Control
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: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: MCA-5-100212
Date Collected: 10/02/12 08:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 01:16	1
Benzene	**1.21**		1.00		ug/L			10/10/12 01:16	1
Bromobenzene	ND		1.00		ug/L			10/10/12 01:16	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 01:16	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 01:16	1
Bromoform	ND		1.00		ug/L			10/10/12 01:16	1
Bromomethane	ND		1.00		ug/L			10/10/12 01:16	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 01:16	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 01:16	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 01:16	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 01:16	1
Chloroethane	ND	*	1.00		ug/L			10/10/12 01:16	1
Chloroform	ND		1.00		ug/L			10/10/12 01:16	1
Chloromethane	ND		1.00		ug/L			10/10/12 01:16	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 01:16	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 01:16	1
cis-1,2-Dichloroethene	**62300**		500		ug/L			10/11/12 13:33	500
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 01:16	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 01:16	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 01:16	1
Dibromomethane	ND		1.00		ug/L			10/10/12 01:16	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 01:16	1
1,1-Dichloroethane	**4.42**		1.00		ug/L			10/10/12 01:16	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 01:16	1
1,1-Dichloroethene	**828**		100		ug/L			10/10/12 22:12	100
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 01:16	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 01:16	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 01:16	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 01:16	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 01:16	1
2-Hexanone	ND		10.0		ug/L			10/10/12 01:16	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 01:16	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 01:16	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 01:16	1
Naphthalene	ND		5.00		ug/L			10/10/12 01:16	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 01:16	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
Styrene	ND		1.00		ug/L			10/10/12 01:16	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 01:16	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 01:16	1
Tetrachloroethene	56.1		1.00		ug/L			10/10/12 01:16	1
Toluene	15.7		1.00		ug/L			10/10/12 01:16	1

Client Sample ID: MCA-5-100212
Date Collected: 10/02/12 08:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	700		100		ug/L			10/10/12 22:12	100
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 01:16	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 01:16	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 01:16	1
Trichloroethene	65400		500		ug/L			10/11/12 13:33	500
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 01:16	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 01:16	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 01:16	1
Vinyl chloride	9660		100		ug/L			10/10/12 22:12	100
Xylenes, Total	ND		3.00		ug/L			10/10/12 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/10/12 01:16*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/10/12 22:12*	*100*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/11/12 13:33*	*500*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/10/12 01:16*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/10/12 22:12*	*100*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/11/12 13:33*	*500*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*10/10/12 01:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/10/12 22:12*	*100*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*10/11/12 13:33*	*500*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/10/12 01:16*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/10/12 22:12*	*100*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/11/12 13:33*	*500*

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-104-100112
Date Collected: 10/01/12 15:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/09/12 22:05	1
Benzene	3.31		1.00		ug/L			10/09/12 22:05	1
Bromobenzene	ND		1.00		ug/L			10/09/12 22:05	1
Bromochloromethane	ND		1.00		ug/L			10/09/12 22:05	1
Bromodichloromethane	ND		1.00		ug/L			10/09/12 22:05	1
Bromoform	ND		1.00		ug/L			10/09/12 22:05	1
Bromomethane	ND		1.00		ug/L			10/09/12 22:05	1
2-Butanone (MEK)	ND		50.0		ug/L			10/09/12 22:05	1
Carbon disulfide	ND		1.00		ug/L			10/09/12 22:05	1
Carbon tetrachloride	ND		1.00		ug/L			10/09/12 22:05	1
Chlorobenzene	ND		1.00		ug/L			10/09/12 22:05	1
Chlorodibromomethane	ND		1.00		ug/L			10/09/12 22:05	1
Chloroethane	ND	*	1.00		ug/L			10/09/12 22:05	1
Chloroform	ND		1.00		ug/L			10/09/12 22:05	1
Chloromethane	ND		1.00		ug/L			10/09/12 22:05	1
2-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:05	1
4-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:05	1
cis-1,2-Dichloroethene	55000		1000		ug/L			10/11/12 13:05	1000
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/09/12 22:05	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/09/12 22:05	1
Dibromomethane	ND		1.00		ug/L			10/09/12 22:05	1
1,2-Dichlorobenzene	1.28		1.00		ug/L			10/09/12 22:05	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:05	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:05	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/09/12 22:05	1
1,1-Dichloroethane	6.67		1.00		ug/L			10/09/12 22:05	1
1,2-Dichloroethane	ND		1.00		ug/L			10/09/12 22:05	1
1,1-Dichloroethene	187		100		ug/L			10/10/12 22:40	100
1,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:05	1
1,3-Dichloropropane	ND		1.00		ug/L			10/09/12 22:05	1
2,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:05	1
1,1-Dichloropropene	ND		1.00		ug/L			10/09/12 22:05	1
Ethylbenzene	10.2		1.00		ug/L			10/09/12 22:05	1
Hexachlorobutadiene	ND		2.00		ug/L			10/09/12 22:05	1
2-Hexanone	ND		10.0		ug/L			10/09/12 22:05	1
Isopropylbenzene	ND		1.00		ug/L			10/09/12 22:05	1
Methylene Chloride	12.6		5.00		ug/L			10/09/12 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/09/12 22:05	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/09/12 22:05	1
Naphthalene	ND		5.00		ug/L			10/09/12 22:05	1
n-Butylbenzene	ND		1.00		ug/L			10/09/12 22:05	1
N-Propylbenzene	ND		1.00		ug/L			10/09/12 22:05	1
p-Isopropyltoluene	ND		1.00		ug/L			10/09/12 22:05	1
sec-Butylbenzene	ND		1.00		ug/L			10/09/12 22:05	1
Styrene	ND		1.00		ug/L			10/09/12 22:05	1
tert-Butylbenzene	ND		1.00		ug/L			10/09/12 22:05	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:05	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:05	1
Tetrachloroethene	2520		100		ug/L			10/10/12 22:40	100
Toluene	157		1.00		ug/L			10/09/12 22:05	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-104-100112
Date Collected: 10/01/12 15:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	402		100		ug/L			10/10/12 22:40	100
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:05	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:05	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:05	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/09/12 22:05	1
1,1,2-Trichloroethane	2.51		1.00		ug/L			10/09/12 22:05	1
Trichloroethene	361000		5000		ug/L			10/12/12 14:11	5000
Trichlorofluoromethane	ND		1.00		ug/L			10/09/12 22:05	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/09/12 22:05	1
1,2,4-Trimethylbenzene	3.93		1.00		ug/L			10/09/12 22:05	1
1,3,5-Trimethylbenzene	1.16		1.00		ug/L			10/09/12 22:05	1
Vinyl chloride	3990		100		ug/L			10/10/12 22:40	100
Xylenes, Total	33.5		3.00		ug/L			10/09/12 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/09/12 22:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/10/12 22:40*	*100*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/11/12 13:05*	*1000*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/12/12 14:11*	*5000*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*10/09/12 22:05*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/10/12 22:40*	*100*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/11/12 13:05*	*1000*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/12/12 14:11*	*5000*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 130*		*10/09/12 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/10/12 22:40*	*100*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/11/12 13:05*	*1000*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/12/12 14:11*	*5000*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/09/12 22:05*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/10/12 22:40*	*100*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/11/12 13:05*	*1000*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/12/12 14:11*	*5000*

Client Sample ID: M&A-111-100212
Date Collected: 10/02/12 09:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/09/12 22:32	1
Benzene	ND		1.00		ug/L			10/09/12 22:32	1
Bromobenzene	ND		1.00		ug/L			10/09/12 22:32	1
Bromochloromethane	ND		1.00		ug/L			10/09/12 22:32	1
Bromodichloromethane	ND		1.00		ug/L			10/09/12 22:32	1
Bromoform	ND		1.00		ug/L			10/09/12 22:32	1
Bromomethane	ND		1.00		ug/L			10/09/12 22:32	1
2-Butanone (MEK)	ND		50.0		ug/L			10/09/12 22:32	1
Carbon disulfide	ND		1.00		ug/L			10/09/12 22:32	1
Carbon tetrachloride	ND		1.00		ug/L			10/09/12 22:32	1
Chlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
Chlorodibromomethane	ND		1.00		ug/L			10/09/12 22:32	1
Chloroethane	ND	*	1.00		ug/L			10/09/12 22:32	1
Chloroform	ND		1.00		ug/L			10/09/12 22:32	1
Chloromethane	ND		1.00		ug/L			10/09/12 22:32	1
2-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:32	1
4-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:32	1
cis-1,2-Dichloroethene	57.0		5.00		ug/L			10/11/12 12:37	5
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:32	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/09/12 22:32	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/09/12 22:32	1
Dibromomethane	ND		1.00		ug/L			10/09/12 22:32	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/09/12 22:32	1
1,1-Dichloroethane	ND		1.00		ug/L			10/09/12 22:32	1
1,2-Dichloroethane	ND		1.00		ug/L			10/09/12 22:32	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/09/12 22:32	1
1,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:32	1
1,3-Dichloropropane	ND		1.00		ug/L			10/09/12 22:32	1
2,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:32	1
1,1-Dichloropropene	ND		1.00		ug/L			10/09/12 22:32	1
Ethylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
Hexachlorobutadiene	ND		2.00		ug/L			10/09/12 22:32	1
2-Hexanone	ND		10.0		ug/L			10/09/12 22:32	1
Isopropylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
Methylene Chloride	ND		5.00		ug/L			10/09/12 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/09/12 22:32	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/09/12 22:32	1
Naphthalene	ND		5.00		ug/L			10/09/12 22:32	1
n-Butylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
N-Propylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
p-Isopropyltoluene	ND		1.00		ug/L			10/09/12 22:32	1
sec-Butylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
Styrene	ND		1.00		ug/L			10/09/12 22:32	1
tert-Butylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:32	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:32	1
Tetrachloroethene	ND		5.00		ug/L			10/11/12 12:37	5
Toluene	1.22		1.00		ug/L			10/09/12 22:32	1

Client Sample ID: M&A-111-100212
Date Collected: 10/02/12 09:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/09/12 22:32	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:32	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/09/12 22:32	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/09/12 22:32	1
Trichloroethene	5.06		5.00		ug/L			10/11/12 12:37	5
Trichlorofluoromethane	ND		1.00		ug/L			10/09/12 22:32	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/09/12 22:32	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/09/12 22:32	1
Vinyl chloride	958		5.00		ug/L			10/11/12 12:37	5
Xylenes, Total	ND		3.00		ug/L			10/09/12 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/12 22:32*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/11/12 12:37*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/09/12 22:32*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/11/12 12:37*	*5*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/09/12 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/11/12 12:37*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/09/12 22:32*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/11/12 12:37*	*5*

Client Sample ID: M&A-112-100112
Date Collected: 10/01/12 11:30
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/09/12 22:59	1
Benzene	ND		1.00		ug/L			10/09/12 22:59	1
Bromobenzene	ND		1.00		ug/L			10/09/12 22:59	1
Bromochloromethane	ND		1.00		ug/L			10/09/12 22:59	1
Bromodichloromethane	ND		1.00		ug/L			10/09/12 22:59	1
Bromoform	ND		1.00		ug/L			10/09/12 22:59	1
Bromomethane	ND		1.00		ug/L			10/09/12 22:59	1
2-Butanone (MEK)	ND		50.0		ug/L			10/09/12 22:59	1
Carbon disulfide	ND		1.00		ug/L			10/09/12 22:59	1
Carbon tetrachloride	ND		1.00		ug/L			10/09/12 22:59	1
Chlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
Chlorodibromomethane	ND		1.00		ug/L			10/09/12 22:59	1
Chloroethane	ND	*	1.00		ug/L			10/09/12 22:59	1
Chloroform	ND		1.00		ug/L			10/09/12 22:59	1
Chloromethane	**2.17**		1.00		ug/L			10/09/12 22:59	1
2-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:59	1
4-Chlorotoluene	ND		1.00		ug/L			10/09/12 22:59	1
cis-1,2-Dichloroethene	**4500**		50.0		ug/L			10/10/12 23:37	50
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/09/12 22:59	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/09/12 22:59	1
Dibromomethane	ND		1.00		ug/L			10/09/12 22:59	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/09/12 22:59	1
1,1-Dichloroethane	ND		1.00		ug/L			10/09/12 22:59	1
1,2-Dichloroethane	ND		1.00		ug/L			10/09/12 22:59	1
1,1-Dichloroethene	ND		50.0		ug/L			10/10/12 23:37	50
1,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:59	1
1,3-Dichloropropane	ND		1.00		ug/L			10/09/12 22:59	1
2,2-Dichloropropane	ND		1.00		ug/L			10/09/12 22:59	1
1,1-Dichloropropene	ND		1.00		ug/L			10/09/12 22:59	1
Ethylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
Hexachlorobutadiene	ND		2.00		ug/L			10/09/12 22:59	1
2-Hexanone	ND		10.0		ug/L			10/09/12 22:59	1
Isopropylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
Methylene Chloride	ND		5.00		ug/L			10/09/12 22:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/09/12 22:59	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/09/12 22:59	1
Naphthalene	ND		5.00		ug/L			10/09/12 22:59	1
n-Butylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
N-Propylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
p-Isopropyltoluene	ND		1.00		ug/L			10/09/12 22:59	1
sec-Butylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
Styrene	ND		1.00		ug/L			10/09/12 22:59	1
tert-Butylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 22:59	1
Tetrachloroethene	187		1.00		ug/L			10/09/12 22:59	1
Toluene	3.43		1.00		ug/L			10/09/12 22:59	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-112-100112
Date Collected: 10/01/12 11:30
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	59.0		1.00		ug/L			10/09/12 22:59	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 22:59	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/09/12 22:59	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/09/12 22:59	1
Trichloroethene	2980		50.0		ug/L			10/10/12 23:37	50
Trichlorofluoromethane	ND		1.00		ug/L			10/09/12 22:59	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/09/12 22:59	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/09/12 22:59	1
Vinyl chloride	978		50.0		ug/L			10/10/12 23:37	50
Xylenes, Total	ND		3.00		ug/L			10/09/12 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/12 22:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/10/12 23:37*	*50*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/12 22:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/10/12 23:37*	*50*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*10/09/12 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/10/12 23:37*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/09/12 22:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/10/12 23:37*	*50*

Client Sample ID: M&A-115-100112
Date Collected: 10/01/12 11:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 14:26	1
Benzene	ND		1.00		ug/L			10/10/12 14:26	1
Bromobenzene	ND		1.00		ug/L			10/10/12 14:26	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 14:26	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 14:26	1
Bromoform	ND		1.00		ug/L			10/10/12 14:26	1
Bromomethane	ND		1.00		ug/L			10/10/12 14:26	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 14:26	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 14:26	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 14:26	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 14:26	1
Chloroethane	ND	*	1.00		ug/L			10/10/12 14:26	1
Chloroform	ND		1.00		ug/L			10/10/12 14:26	1
Chloromethane	ND		1.00		ug/L			10/10/12 14:26	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 14:26	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 14:26	1
cis-1,2-Dichloroethene	**48.9**		1.00		ug/L			10/10/12 14:26	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 14:26	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 14:26	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 14:26	1
Dibromomethane	ND		1.00		ug/L			10/10/12 14:26	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 14:26	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 14:26	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 14:26	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/10/12 14:26	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 14:26	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 14:26	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 14:26	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 14:26	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 14:26	1
2-Hexanone	ND		10.0		ug/L			10/10/12 14:26	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 14:26	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 14:26	1
Naphthalene	ND		5.00		ug/L			10/10/12 14:26	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 14:26	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
Styrene	ND		1.00		ug/L			10/10/12 14:26	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 14:26	1
Tetrachloroethene	ND		1.00		ug/L			10/10/12 14:26	1
Toluene	ND		1.00		ug/L			10/10/12 14:26	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-115-100112
Date Collected: 10/01/12 11:45
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 14:26	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 14:26	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 14:26	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 14:26	1
Trichloroethene	3.13		1.00		ug/L			10/10/12 14:26	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 14:26	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 14:26	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 14:26	1
Vinyl chloride	1.37		1.00		ug/L			10/10/12 14:26	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/10/12 14:26*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/12 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/12 14:26*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/12 14:26*	*1*

Client Sample ID: M&A-116-100112
Date Collected: 10/01/12 14:15
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 14:54	1
Benzene	ND		1.00		ug/L			10/10/12 14:54	1
Bromobenzene	ND		1.00		ug/L			10/10/12 14:54	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 14:54	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 14:54	1
Bromoform	ND		1.00		ug/L			10/10/12 14:54	1
Bromomethane	ND		1.00		ug/L			10/10/12 14:54	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 14:54	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 14:54	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 14:54	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 14:54	1
Chloroethane	ND	*	1.00		ug/L			10/10/12 14:54	1
Chloroform	ND		1.00		ug/L			10/10/12 14:54	1
Chloromethane	ND		1.00		ug/L			10/10/12 14:54	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 14:54	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 14:54	1
cis-1,2-Dichloroethene	14.1		1.00		ug/L			10/10/12 14:54	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 14:54	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 14:54	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 14:54	1
Dibromomethane	ND		1.00		ug/L			10/10/12 14:54	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 14:54	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 14:54	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 14:54	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/10/12 14:54	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 14:54	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 14:54	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 14:54	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 14:54	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 14:54	1
2-Hexanone	ND		10.0		ug/L			10/10/12 14:54	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 14:54	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 14:54	1
Naphthalene	ND		5.00		ug/L			10/10/12 14:54	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 14:54	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
Styrene	ND		1.00		ug/L			10/10/12 14:54	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 14:54	1
Tetrachloroethene	ND		1.00		ug/L			10/10/12 14:54	1
Toluene	ND		1.00		ug/L			10/10/12 14:54	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-116-100112
Date Collected: 10/01/12 14:15
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	2.01		1.00		ug/L			10/10/12 14:54	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 14:54	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 14:54	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 14:54	1
Trichloroethene	10.1		1.00		ug/L			10/10/12 14:54	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 14:54	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 14:54	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 14:54	1
Vinyl chloride	ND		1.00		ug/L			10/10/12 14:54	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/12 14:54*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/10/12 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/12 14:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/10/12 14:54*	*1*

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-122-100112
Date Collected: 10/01/12 12:00
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 15:21	1
Benzene	ND		1.00		ug/L			10/10/12 15:21	1
Bromobenzene	ND		1.00		ug/L			10/10/12 15:21	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 15:21	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 15:21	1
Bromoform	ND		1.00		ug/L			10/10/12 15:21	1
Bromomethane	ND		1.00		ug/L			10/10/12 15:21	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 15:21	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 15:21	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 15:21	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 15:21	1
Chloroethane	ND	*	1.00		ug/L			10/10/12 15:21	1
Chloroform	ND		1.00		ug/L			10/10/12 15:21	1
Chloromethane	ND		1.00		ug/L			10/10/12 15:21	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:21	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:21	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:21	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:21	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 15:21	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 15:21	1
Dibromomethane	ND		1.00		ug/L			10/10/12 15:21	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 15:21	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 15:21	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 15:21	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/10/12 15:21	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:21	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 15:21	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:21	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 15:21	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 15:21	1
2-Hexanone	ND		10.0		ug/L			10/10/12 15:21	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 15:21	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 15:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 15:21	1
Naphthalene	ND		5.00		ug/L			10/10/12 15:21	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 15:21	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
Styrene	ND		1.00		ug/L			10/10/12 15:21	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:21	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:21	1
Tetrachloroethene	ND		1.00		ug/L			10/10/12 15:21	1
Toluene	ND		1.00		ug/L			10/10/12 15:21	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-122-100112
Date Collected: 10/01/12 12:00
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:21	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:21	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 15:21	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 15:21	1
Trichloroethene	1.17		1.00		ug/L			10/10/12 15:21	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 15:21	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 15:21	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:21	1
Vinyl chloride	ND		1.00		ug/L			10/10/12 15:21	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/10/12 15:21*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/10/12 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/10/12 15:21*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/10/12 15:21*	*1*

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-126-100121
Date Collected: 10/02/12 11:15
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 15:48	1
Benzene	ND		1.00		ug/L			10/10/12 15:48	1
Bromobenzene	ND		1.00		ug/L			10/10/12 15:48	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 15:48	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 15:48	1
Bromoform	ND		1.00		ug/L			10/10/12 15:48	1
Bromomethane	ND		1.00		ug/L			10/10/12 15:48	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 15:48	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 15:48	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 15:48	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 15:48	1
Chloroethane	ND	*	1.00		ug/L			10/10/12 15:48	1
Chloroform	ND		1.00		ug/L			10/10/12 15:48	1
Chloromethane	ND		1.00		ug/L			10/10/12 15:48	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:48	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:48	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:48	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 15:48	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 15:48	1
Dibromomethane	ND		1.00		ug/L			10/10/12 15:48	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 15:48	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 15:48	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 15:48	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/10/12 15:48	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:48	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 15:48	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:48	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 15:48	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 15:48	1
2-Hexanone	ND		10.0		ug/L			10/10/12 15:48	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 15:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 15:48	1
Naphthalene	ND		5.00		ug/L			10/10/12 15:48	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 15:48	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
Styrene	ND		1.00		ug/L			10/10/12 15:48	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:48	1
Tetrachloroethene	ND		1.00		ug/L			10/10/12 15:48	1
Toluene	ND		1.00		ug/L			10/10/12 15:48	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-126-100121
Date Collected: 10/02/12 11:15
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:48	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:48	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 15:48	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 15:48	1
Trichloroethene	26.1		1.00		ug/L			10/10/12 15:48	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 15:48	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 15:48	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:48	1
Vinyl chloride	ND		1.00		ug/L			10/10/12 15:48	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/10/12 15:48*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/12 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/12 15:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/10/12 15:48*	*1*

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: Trip Blank
Date Collected: 10/01/12 00:01
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/09/12 20:43	1
Benzene	ND		1.00		ug/L			10/09/12 20:43	1
Bromobenzene	ND		1.00		ug/L			10/09/12 20:43	1
Bromochloromethane	ND		1.00		ug/L			10/09/12 20:43	1
Bromodichloromethane	ND		1.00		ug/L			10/09/12 20:43	1
Bromoform	ND		1.00		ug/L			10/09/12 20:43	1
Bromomethane	ND		1.00		ug/L			10/09/12 20:43	1
2-Butanone (MEK)	ND		50.0		ug/L			10/09/12 20:43	1
Carbon disulfide	ND		1.00		ug/L			10/09/12 20:43	1
Carbon tetrachloride	ND		1.00		ug/L			10/09/12 20:43	1
Chlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
Chlorodibromomethane	ND		1.00		ug/L			10/09/12 20:43	1
Chloroethane	ND	*	1.00		ug/L			10/09/12 20:43	1
Chloroform	ND		1.00		ug/L			10/09/12 20:43	1
Chloromethane	ND		1.00		ug/L			10/09/12 20:43	1
2-Chlorotoluene	ND		1.00		ug/L			10/09/12 20:43	1
4-Chlorotoluene	ND		1.00		ug/L			10/09/12 20:43	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/09/12 20:43	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 20:43	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/09/12 20:43	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/09/12 20:43	1
Dibromomethane	ND		1.00		ug/L			10/09/12 20:43	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/09/12 20:43	1
1,1-Dichloroethane	ND		1.00		ug/L			10/09/12 20:43	1
1,2-Dichloroethane	ND		1.00		ug/L			10/09/12 20:43	1
1,1-Dichloroethene	ND	*	1.00		ug/L			10/09/12 20:43	1
1,2-Dichloropropane	ND		1.00		ug/L			10/09/12 20:43	1
1,3-Dichloropropane	ND		1.00		ug/L			10/09/12 20:43	1
2,2-Dichloropropane	ND		1.00		ug/L			10/09/12 20:43	1
1,1-Dichloropropene	ND		1.00		ug/L			10/09/12 20:43	1
Ethylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
Hexachlorobutadiene	ND		2.00		ug/L			10/09/12 20:43	1
2-Hexanone	ND		10.0		ug/L			10/09/12 20:43	1
Isopropylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
Methylene Chloride	ND		5.00		ug/L			10/09/12 20:43	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/09/12 20:43	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/09/12 20:43	1
Naphthalene	ND		5.00		ug/L			10/09/12 20:43	1
n-Butylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
N-Propylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
p-Isopropyltoluene	ND		1.00		ug/L			10/09/12 20:43	1
sec-Butylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
Styrene	ND		1.00		ug/L			10/09/12 20:43	1
tert-Butylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 20:43	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 20:43	1
Tetrachloroethene	ND		1.00		ug/L			10/09/12 20:43	1
Toluene	ND		1.00		ug/L			10/09/12 20:43	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: Trip Blank
Date Collected: 10/01/12 00:01
Date Received: 10/03/12 08:20

Lab Sample ID: 490-8211-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/09/12 20:43	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 20:43	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/09/12 20:43	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/09/12 20:43	1
Trichloroethene	ND		1.00		ug/L			10/09/12 20:43	1
Trichlorofluoromethane	ND		1.00		ug/L			10/09/12 20:43	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/09/12 20:43	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/09/12 20:43	1
Vinyl chloride	ND		1.00		ug/L			10/09/12 20:43	1
Xylenes, Total	ND		3.00		ug/L			10/09/12 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/12 20:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/09/12 20:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*10/09/12 20:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/09/12 20:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-26827/7
Matrix: Water
Analysis Batch: 26827

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/09/12 20:15	1
Benzene	ND		1.00		ug/L			10/09/12 20:15	1
Bromobenzene	ND		1.00		ug/L			10/09/12 20:15	1
Bromochloromethane	ND		1.00		ug/L			10/09/12 20:15	1
Bromodichloromethane	ND		1.00		ug/L			10/09/12 20:15	1
Bromoform	ND		1.00		ug/L			10/09/12 20:15	1
Bromomethane	ND		1.00		ug/L			10/09/12 20:15	1
2-Butanone (MEK)	ND		50.0		ug/L			10/09/12 20:15	1
Carbon disulfide	ND		1.00		ug/L			10/09/12 20:15	1
Carbon tetrachloride	ND		1.00		ug/L			10/09/12 20:15	1
Chlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
Chlorodibromomethane	ND		1.00		ug/L			10/09/12 20:15	1
Chloroethane	ND		1.00		ug/L			10/09/12 20:15	1
Chloroform	ND		1.00		ug/L			10/09/12 20:15	1
Chloromethane	ND		1.00		ug/L			10/09/12 20:15	1
2-Chlorotoluene	ND		1.00		ug/L			10/09/12 20:15	1
4-Chlorotoluene	ND		1.00		ug/L			10/09/12 20:15	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/09/12 20:15	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 20:15	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/09/12 20:15	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/09/12 20:15	1
Dibromomethane	ND		1.00		ug/L			10/09/12 20:15	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/09/12 20:15	1
1,1-Dichloroethane	ND		1.00		ug/L			10/09/12 20:15	1
1,2-Dichloroethane	ND		1.00		ug/L			10/09/12 20:15	1
1,1-Dichloroethene	ND		1.00		ug/L			10/09/12 20:15	1
1,2-Dichloropropane	ND		1.00		ug/L			10/09/12 20:15	1
1,3-Dichloropropane	ND		1.00		ug/L			10/09/12 20:15	1
2,2-Dichloropropane	ND		1.00		ug/L			10/09/12 20:15	1
1,1-Dichloropropene	ND		1.00		ug/L			10/09/12 20:15	1
Ethylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
Hexachlorobutadiene	ND		2.00		ug/L			10/09/12 20:15	1
2-Hexanone	ND		10.0		ug/L			10/09/12 20:15	1
Isopropylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
Methylene Chloride	ND		5.00		ug/L			10/09/12 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/09/12 20:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/09/12 20:15	1
Naphthalene	ND		5.00		ug/L			10/09/12 20:15	1
n-Butylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
N-Propylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
p-Isopropyltoluene	ND		1.00		ug/L			10/09/12 20:15	1
sec-Butylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
Styrene	ND		1.00		ug/L			10/09/12 20:15	1
tert-Butylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/09/12 20:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26827/7
Matrix: Water
Analysis Batch: 26827

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/09/12 20:15	1
Toluene	ND		1.00		ug/L			10/09/12 20:15	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/09/12 20:15	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/09/12 20:15	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/09/12 20:15	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/09/12 20:15	1
Trichloroethene	ND		1.00		ug/L			10/09/12 20:15	1
Trichlorofluoromethane	ND		1.00		ug/L			10/09/12 20:15	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/09/12 20:15	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/09/12 20:15	1
Vinyl chloride	ND		1.00		ug/L			10/09/12 20:15	1
Xylenes, Total	ND		3.00		ug/L			10/09/12 20:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/12 20:15*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/12 20:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/09/12 20:15*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/09/12 20:15*	*1*

Lab Sample ID: LCS 490-26827/3
Matrix: Water
Analysis Batch: 26827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	276.6		ug/L		111	54 - 145
Benzene	50.0	58.55		ug/L		117	80 - 121
Bromobenzene	50.0	60.02		ug/L		120	68 - 130
Bromochloromethane	50.0	51.47		ug/L		103	78 - 129
Bromodichloromethane	50.0	56.42		ug/L		113	75 - 129
Bromoform	50.0	50.56		ug/L		101	46 - 145
Bromomethane	50.0	72.85		ug/L		146	41 - 150
2-Butanone (MEK)	250	272.7		ug/L		109	62 - 133
Carbon disulfide	50.0	53.08		ug/L		106	77 - 126
Carbon tetrachloride	50.0	56.37		ug/L		113	64 - 147
Chlorobenzene	50.0	57.96		ug/L		116	80 - 120
Chlorodibromomethane	50.0	61.67		ug/L		123	69 - 133
Chloroethane	50.0	80.01	*	ug/L		160	72 - 120
Chloroform	50.0	54.04		ug/L		108	73 - 129
Chloromethane	50.0	48.01		ug/L		96	12 - 150
2-Chlorotoluene	50.0	59.49		ug/L		119	75 - 126
4-Chlorotoluene	50.0	58.55		ug/L		117	75 - 130
cis-1,2-Dichloroethene	50.0	55.06		ug/L		110	76 - 125
cis-1,3-Dichloropropene	50.0	62.17		ug/L		124	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	55.79		ug/L		112	54 - 125
1,2-Dibromoethane (EDB)	50.0	60.38		ug/L		121	80 - 129
Dibromomethane	50.0	53.33		ug/L		107	71 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26827/3
Matrix: Water
Analysis Batch: 26827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	55.33		ug/L		111	80 - 121
1,3-Dichlorobenzene	50.0	57.58		ug/L		115	80 - 122
1,4-Dichlorobenzene	50.0	57.37		ug/L		115	80 - 120
Dichlorodifluoromethane	50.0	41.41		ug/L		83	37 - 127
1,1-Dichloroethane	50.0	59.24		ug/L		118	78 - 125
1,2-Dichloroethane	50.0	51.79		ug/L		104	77 - 121
1,1-Dichloroethene	50.0	64.53	*	ug/L		129	79 - 124
1,2-Dichloropropane	50.0	55.27		ug/L		111	75 - 120
1,3-Dichloropropane	50.0	59.70		ug/L		119	80 - 125
2,2-Dichloropropane	50.0	55.10		ug/L		110	43 - 161
1,1-Dichloropropene	50.0	57.15		ug/L		114	80 - 122
Ethylbenzene	50.0	55.30		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	35.79		ug/L		72	49 - 146
2-Hexanone	250	305.4		ug/L		122	60 - 142
Isopropylbenzene	50.0	52.40		ug/L		105	80 - 141
Methylene Chloride	50.0	58.59		ug/L		117	79 - 123
4-Methyl-2-pentanone (MIBK)	250	294.0		ug/L		118	60 - 137
Methyl tert-butyl ether	50.0	53.95		ug/L		108	72 - 133
Naphthalene	50.0	48.50		ug/L		97	62 - 138
n-Butylbenzene	50.0	58.02		ug/L		116	68 - 132
N-Propylbenzene	50.0	60.83		ug/L		122	75 - 129
p-Isopropyltoluene	50.0	58.45		ug/L		117	75 - 128
sec-Butylbenzene	50.0	58.80		ug/L		118	76 - 128
Styrene	50.0	52.37		ug/L		105	80 - 127
tert-Butylbenzene	50.0	59.64		ug/L		119	76 - 126
1,1,1,2-Tetrachloroethane	50.0	56.94		ug/L		114	74 - 135
1,1,2,2-Tetrachloroethane	50.0	55.92		ug/L		112	69 - 131
Tetrachloroethene	50.0	59.76		ug/L		120	80 - 126
Toluene	50.0	60.66		ug/L		121	80 - 126
trans-1,2-Dichloroethene	50.0	60.99		ug/L		122	79 - 126
trans-1,3-Dichloropropene	50.0	59.06		ug/L		118	63 - 134
1,2,3-Trichlorobenzene	50.0	45.10		ug/L		90	62 - 133
1,2,4-Trichlorobenzene	50.0	47.02		ug/L		94	63 - 133
1,1,1-Trichloroethane	50.0	55.45		ug/L		111	78 - 135
1,1,2-Trichloroethane	50.0	57.54		ug/L		115	80 - 124
Trichloroethene	50.0	60.06		ug/L		120	80 - 123
Trichlorofluoromethane	50.0	49.40		ug/L		99	65 - 124
1,2,3-Trichloropropane	50.0	59.57		ug/L		119	70 - 131
1,2,4-Trimethylbenzene	50.0	58.04		ug/L		116	77 - 126
1,3,5-Trimethylbenzene	50.0	59.24		ug/L		118	77 - 127
Vinyl chloride	50.0	50.33		ug/L		101	68 - 120
Xylenes, Total	150	157.4		ug/L		105	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26827/4
Matrix: Water
Analysis Batch: 26827

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	269.0		ug/L		108	54 - 145	3	21
Benzene	50.0	54.40		ug/L		109	80 - 121	7	17
Bromobenzene	50.0	57.16		ug/L		114	68 - 130	5	20
Bromochloromethane	50.0	49.04		ug/L		98	78 - 129	5	17
Bromodichloromethane	50.0	53.52		ug/L		107	75 - 129	5	18
Bromoform	50.0	47.19		ug/L		94	46 - 145	7	16
Bromomethane	50.0	65.60		ug/L		131	41 - 150	10	50
2-Butanone (MEK)	250	254.0		ug/L		102	62 - 133	7	19
Carbon disulfide	50.0	48.55		ug/L		97	77 - 126	9	21
Carbon tetrachloride	50.0	52.78		ug/L		106	64 - 147	7	19
Chlorobenzene	50.0	53.37		ug/L		107	80 - 120	8	14
Chlorodibromomethane	50.0	54.23		ug/L		108	69 - 133	13	15
Chloroethane	50.0	73.87	*	ug/L		148	72 - 120	8	20
Chloroform	50.0	50.71		ug/L		101	73 - 129	6	18
Chloromethane	50.0	42.45		ug/L		85	12 - 150	12	31
2-Chlorotoluene	50.0	55.53		ug/L		111	75 - 126	7	17
4-Chlorotoluene	50.0	55.64		ug/L		111	75 - 130	5	18
cis-1,2-Dichloroethene	50.0	51.25		ug/L		103	76 - 125	7	17
cis-1,3-Dichloropropene	50.0	57.04		ug/L		114	74 - 140	9	15
1,2-Dibromo-3-Chloropropane	50.0	53.69		ug/L		107	54 - 125	4	24
1,2-Dibromoethane (EDB)	50.0	53.71		ug/L		107	80 - 129	12	15
Dibromomethane	50.0	51.64		ug/L		103	71 - 125	3	16
1,2-Dichlorobenzene	50.0	52.65		ug/L		105	80 - 121	5	15
1,3-Dichlorobenzene	50.0	54.25		ug/L		108	80 - 122	6	15
1,4-Dichlorobenzene	50.0	53.19		ug/L		106	80 - 120	8	15
Dichlorodifluoromethane	50.0	39.28		ug/L		79	37 - 127	5	18
1,1-Dichloroethane	50.0	55.18		ug/L		110	78 - 125	7	17
1,2-Dichloroethane	50.0	49.20		ug/L		98	77 - 121	5	17
1,1-Dichloroethene	50.0	59.99		ug/L		120	79 - 124	7	17
1,2-Dichloropropane	50.0	51.61		ug/L		103	75 - 120	7	17
1,3-Dichloropropane	50.0	55.35		ug/L		111	80 - 125	8	14
2,2-Dichloropropane	50.0	50.58		ug/L		101	43 - 161	9	18
1,1-Dichloropropene	50.0	53.24		ug/L		106	80 - 122	7	17
Ethylbenzene	50.0	50.75		ug/L		102	80 - 130	9	15
Hexachlorobutadiene	50.0	33.28		ug/L		67	49 - 146	7	23
2-Hexanone	250	265.8		ug/L		106	60 - 142	14	15
Isopropylbenzene	50.0	47.77		ug/L		96	80 - 141	9	16
Methylene Chloride	50.0	54.73		ug/L		109	79 - 123	7	17
4-Methyl-2-pentanone (MIBK)	250	277.1		ug/L		111	60 - 137	6	17
Methyl tert-butyl ether	50.0	51.43		ug/L		103	72 - 133	5	16
Naphthalene	50.0	46.92		ug/L		94	62 - 138	3	26
n-Butylbenzene	50.0	53.72		ug/L		107	68 - 132	8	18
N-Propylbenzene	50.0	56.69		ug/L		113	75 - 129	7	17
p-Isopropyltoluene	50.0	54.22		ug/L		108	75 - 128	8	16
sec-Butylbenzene	50.0	55.32		ug/L		111	76 - 128	6	16
Styrene	50.0	48.01		ug/L		96	80 - 127	9	24
tert-Butylbenzene	50.0	56.18		ug/L		112	76 - 126	6	16
1,1,1,2-Tetrachloroethane	50.0	53.45		ug/L		107	74 - 135	6	16
1,1,2,2-Tetrachloroethane	50.0	52.89		ug/L		106	69 - 131	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26827/4
Matrix: Water
Analysis Batch: 26827

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	50.0	53.91		ug/L		108	80 - 126	10	16
Toluene	50.0	54.74		ug/L		109	80 - 126	10	15
trans-1,2-Dichloroethene	50.0	55.70		ug/L		111	79 - 126	9	16
trans-1,3-Dichloropropene	50.0	54.00		ug/L		108	63 - 134	9	14
1,2,3-Trichlorobenzene	50.0	43.63		ug/L		87	62 - 133	3	25
1,2,4-Trichlorobenzene	50.0	45.20		ug/L		90	63 - 133	4	19
1,1,1-Trichloroethane	50.0	51.43		ug/L		103	78 - 135	8	17
1,1,2-Trichloroethane	50.0	52.96		ug/L		106	80 - 124	8	15
Trichloroethene	50.0	54.82		ug/L		110	80 - 123	9	17
Trichlorofluoromethane	50.0	45.49		ug/L		91	65 - 124	8	18
1,2,3-Trichloropropane	50.0	56.62		ug/L		113	70 - 131	5	19
1,2,4-Trimethylbenzene	50.0	54.04		ug/L		108	77 - 126	7	16
1,3,5-Trimethylbenzene	50.0	55.62		ug/L		111	77 - 127	6	17
Vinyl chloride	50.0	46.87		ug/L		94	68 - 120	7	17
Xylenes, Total	150	143.8		ug/L		96	80 - 132	9	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 490-26948/7
Matrix: Water
Analysis Batch: 26948

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 13:59	1
Benzene	ND		1.00		ug/L			10/10/12 13:59	1
Bromobenzene	ND		1.00		ug/L			10/10/12 13:59	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 13:59	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 13:59	1
Bromoform	ND		1.00		ug/L			10/10/12 13:59	1
Bromomethane	ND		1.00		ug/L			10/10/12 13:59	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 13:59	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 13:59	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 13:59	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 13:59	1
Chloroethane	ND		1.00		ug/L			10/10/12 13:59	1
Chloroform	ND		1.00		ug/L			10/10/12 13:59	1
Chloromethane	ND		1.00		ug/L			10/10/12 13:59	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 13:59	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 13:59	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 13:59	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 13:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 13:59	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 13:59	1
Dibromomethane	ND		1.00		ug/L			10/10/12 13:59	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26948/7
Matrix: Water
Analysis Batch: 26948

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 13:59	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 13:59	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 13:59	1
1,1-Dichloroethene	ND		1.00		ug/L			10/10/12 13:59	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 13:59	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 13:59	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 13:59	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 13:59	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 13:59	1
2-Hexanone	ND		10.0		ug/L			10/10/12 13:59	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 13:59	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 13:59	1
Naphthalene	ND		5.00		ug/L			10/10/12 13:59	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 13:59	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
Styrene	ND		1.00		ug/L			10/10/12 13:59	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 13:59	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 13:59	1
Tetrachloroethene	ND		1.00		ug/L			10/10/12 13:59	1
Toluene	ND		1.00		ug/L			10/10/12 13:59	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 13:59	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 13:59	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 13:59	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 13:59	1
Trichloroethene	ND		1.00		ug/L			10/10/12 13:59	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 13:59	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 13:59	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 13:59	1
Vinyl chloride	ND		1.00		ug/L			10/10/12 13:59	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/10/12 13:59*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/10/12 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/10/12 13:59*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/12 13:59*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26948/3
Matrix: Water
Analysis Batch: 26948

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	270.4		ug/L		108	54 - 145
Benzene	50.0	57.73		ug/L		115	80 - 121
Bromobenzene	50.0	57.68		ug/L		115	68 - 130
Bromochloromethane	50.0	55.34		ug/L		111	78 - 129
Bromodichloromethane	50.0	56.62		ug/L		113	75 - 129
Bromoform	50.0	53.53		ug/L		107	46 - 145
Bromomethane	50.0	70.68		ug/L		141	41 - 150
2-Butanone (MEK)	250	263.7		ug/L		105	62 - 133
Carbon disulfide	50.0	54.83		ug/L		110	77 - 126
Carbon tetrachloride	50.0	59.77		ug/L		120	64 - 147
Chlorobenzene	50.0	55.85		ug/L		112	80 - 120
Chlorodibromomethane	50.0	56.46		ug/L		113	69 - 133
Chloroethane	50.0	82.32	*	ug/L		165	72 - 120
Chloroform	50.0	54.20		ug/L		108	73 - 129
Chloromethane	50.0	44.04		ug/L		88	12 - 150
2-Chlorotoluene	50.0	57.00		ug/L		114	75 - 126
4-Chlorotoluene	50.0	56.70		ug/L		113	75 - 130
cis-1,2-Dichloroethene	50.0	54.46		ug/L		109	76 - 125
cis-1,3-Dichloropropene	50.0	59.28		ug/L		119	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	54.50		ug/L		109	54 - 125
1,2-Dibromoethane (EDB)	50.0	55.07		ug/L		110	80 - 129
Dibromomethane	50.0	53.66		ug/L		107	71 - 125
1,2-Dichlorobenzene	50.0	54.20		ug/L		108	80 - 121
1,3-Dichlorobenzene	50.0	56.74		ug/L		113	80 - 122
1,4-Dichlorobenzene	50.0	56.08		ug/L		112	80 - 120
Dichlorodifluoromethane	50.0	49.60		ug/L		99	37 - 127
1,1-Dichloroethane	50.0	59.71		ug/L		119	78 - 125
1,2-Dichloroethane	50.0	52.50		ug/L		105	77 - 121
1,1-Dichloroethene	50.0	67.75	*	ug/L		136	79 - 124
1,2-Dichloropropane	50.0	53.64		ug/L		107	75 - 120
1,3-Dichloropropane	50.0	56.57		ug/L		113	80 - 125
2,2-Dichloropropane	50.0	57.70		ug/L		115	43 - 161
1,1-Dichloropropene	50.0	58.65		ug/L		117	80 - 122
Ethylbenzene	50.0	53.98		ug/L		108	80 - 130
Hexachlorobutadiene	50.0	37.17		ug/L		74	49 - 146
2-Hexanone	250	267.4		ug/L		107	60 - 142
Isopropylbenzene	50.0	52.18		ug/L		104	80 - 141
Methylene Chloride	50.0	59.78		ug/L		120	79 - 123
4-Methyl-2-pentanone (MIBK)	250	278.0		ug/L		111	60 - 137
Methyl tert-butyl ether	50.0	53.26		ug/L		107	72 - 133
Naphthalene	50.0	47.17		ug/L		94	62 - 138
n-Butylbenzene	50.0	56.10		ug/L		112	68 - 132
N-Propylbenzene	50.0	58.85		ug/L		118	75 - 129
p-Isopropyltoluene	50.0	55.30		ug/L		111	75 - 128
sec-Butylbenzene	50.0	57.08		ug/L		114	76 - 128
Styrene	50.0	51.70		ug/L		103	80 - 127
tert-Butylbenzene	50.0	57.60		ug/L		115	76 - 126
1,1,1,2-Tetrachloroethane	50.0	57.31		ug/L		115	74 - 135
1,1,2,2-Tetrachloroethane	50.0	52.97		ug/L		106	69 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26948/3
Matrix: Water
Analysis Batch: 26948

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	50.0	59.93		ug/L		120	80 - 126
Toluene	50.0	57.58		ug/L		115	80 - 126
trans-1,2-Dichloroethene	50.0	60.83		ug/L		122	79 - 126
trans-1,3-Dichloropropene	50.0	56.29		ug/L		113	63 - 134
1,2,3-Trichlorobenzene	50.0	45.60		ug/L		91	62 - 133
1,2,4-Trichlorobenzene	50.0	48.17		ug/L		96	63 - 133
1,1,1-Trichloroethane	50.0	57.57		ug/L		115	78 - 135
1,1,2-Trichloroethane	50.0	53.98		ug/L		108	80 - 124
Trichloroethene	50.0	60.04		ug/L		120	80 - 123
Trichlorofluoromethane	50.0	54.80		ug/L		110	65 - 124
1,2,3-Trichloropropane	50.0	57.34		ug/L		115	70 - 131
1,2,4-Trimethylbenzene	50.0	55.45		ug/L		111	77 - 126
1,3,5-Trimethylbenzene	50.0	57.11		ug/L		114	77 - 127
Vinyl chloride	50.0	54.35		ug/L		109	68 - 120
Xylenes, Total	150	153.0		ug/L		102	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-26948/4
Matrix: Water
Analysis Batch: 26948

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	268.8		ug/L		108	54 - 145	1	21
Benzene	50.0	56.43		ug/L		113	80 - 121	2	17
Bromobenzene	50.0	56.42		ug/L		113	68 - 130	2	20
Bromochloromethane	50.0	53.45		ug/L		107	78 - 129	3	17
Bromodichloromethane	50.0	55.42		ug/L		111	75 - 129	2	18
Bromoform	50.0	51.82		ug/L		104	46 - 145	3	16
Bromomethane	50.0	73.91		ug/L		148	41 - 150	4	50
2-Butanone (MEK)	250	262.1		ug/L		105	62 - 133	1	19
Carbon disulfide	50.0	53.57		ug/L		107	77 - 126	2	21
Carbon tetrachloride	50.0	57.18		ug/L		114	64 - 147	4	19
Chlorobenzene	50.0	54.60		ug/L		109	80 - 120	2	14
Chlorodibromomethane	50.0	58.65		ug/L		117	69 - 133	4	15
Chloroethane	50.0	80.27	*	ug/L		161	72 - 120	3	20
Chloroform	50.0	53.07		ug/L		106	73 - 129	2	18
Chloromethane	50.0	42.99		ug/L		86	12 - 150	2	31
2-Chlorotoluene	50.0	55.36		ug/L		111	75 - 126	3	17
4-Chlorotoluene	50.0	55.60		ug/L		111	75 - 130	2	18
cis-1,2-Dichloroethene	50.0	52.80		ug/L		106	76 - 125	3	17
cis-1,3-Dichloropropene	50.0	57.22		ug/L		114	74 - 140	4	15
1,2-Dibromo-3-Chloropropane	50.0	54.27		ug/L		109	54 - 125	0	24
1,2-Dibromoethane (EDB)	50.0	57.17		ug/L		114	80 - 129	4	15
Dibromomethane	50.0	52.76		ug/L		106	71 - 125	2	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26948/4
Matrix: Water
Analysis Batch: 26948

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	53.67		ug/L		107	80 - 121	1	15
1,3-Dichlorobenzene	50.0	55.39		ug/L		111	80 - 122	2	15
1,4-Dichlorobenzene	50.0	54.61		ug/L		109	80 - 120	3	15
Dichlorodifluoromethane	50.0	48.23		ug/L		96	37 - 127	3	18
1,1-Dichloroethane	50.0	58.02		ug/L		116	78 - 125	3	17
1,2-Dichloroethane	50.0	51.13		ug/L		102	77 - 121	3	17
1,1-Dichloroethene	50.0	65.78	*	ug/L		132	79 - 124	3	17
1,2-Dichloropropane	50.0	52.63		ug/L		105	75 - 120	2	17
1,3-Dichloropropane	50.0	55.97		ug/L		112	80 - 125	1	14
2,2-Dichloropropane	50.0	56.06		ug/L		112	43 - 161	3	18
1,1-Dichloropropene	50.0	56.66		ug/L		113	80 - 122	3	17
Ethylbenzene	50.0	52.67		ug/L		105	80 - 130	2	15
Hexachlorobutadiene	50.0	36.76		ug/L		74	49 - 146	1	23
2-Hexanone	250	262.3		ug/L		105	60 - 142	2	15
Isopropylbenzene	50.0	51.24		ug/L		102	80 - 141	2	16
Methylene Chloride	50.0	58.38		ug/L		117	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	273.3		ug/L		109	60 - 137	2	17
Methyl tert-butyl ether	50.0	52.73		ug/L		105	72 - 133	1	16
Naphthalene	50.0	46.82		ug/L		94	62 - 138	1	26
n-Butylbenzene	50.0	54.87		ug/L		110	68 - 132	2	18
N-Propylbenzene	50.0	57.01		ug/L		114	75 - 129	3	17
p-Isopropyltoluene	50.0	54.38		ug/L		109	75 - 128	2	16
sec-Butylbenzene	50.0	56.29		ug/L		113	76 - 128	1	16
Styrene	50.0	50.03		ug/L		100	80 - 127	3	24
tert-Butylbenzene	50.0	55.99		ug/L		112	76 - 126	3	16
1,1,1,2-Tetrachloroethane	50.0	55.50		ug/L		111	74 - 135	3	16
1,1,2,2-Tetrachloroethane	50.0	51.96		ug/L		104	69 - 131	2	20
Tetrachloroethene	50.0	57.83		ug/L		116	80 - 126	4	16
Toluene	50.0	56.29		ug/L		113	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	59.70		ug/L		119	79 - 126	2	16
trans-1,3-Dichloropropene	50.0	54.86		ug/L		110	63 - 134	3	14
1,2,3-Trichlorobenzene	50.0	45.94		ug/L		92	62 - 133	1	25
1,2,4-Trichlorobenzene	50.0	48.92		ug/L		98	63 - 133	2	19
1,1,1-Trichloroethane	50.0	55.41		ug/L		111	78 - 135	4	17
1,1,2-Trichloroethane	50.0	52.67		ug/L		105	80 - 124	2	15
Trichloroethene	50.0	58.31		ug/L		117	80 - 123	3	17
Trichlorofluoromethane	50.0	53.32		ug/L		107	65 - 124	3	18
1,2,3-Trichloropropane	50.0	55.62		ug/L		111	70 - 131	3	19
1,2,4-Trimethylbenzene	50.0	53.97		ug/L		108	77 - 126	3	16
1,3,5-Trimethylbenzene	50.0	55.64		ug/L		111	77 - 127	3	17
Vinyl chloride	50.0	51.96		ug/L		104	68 - 120	4	17
Xylenes, Total	150	149.8		ug/L		100	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27099/7
Matrix: Water
Analysis Batch: 27099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/10/12 15:44	1
Benzene	ND		1.00		ug/L			10/10/12 15:44	1
Bromobenzene	ND		1.00		ug/L			10/10/12 15:44	1
Bromochloromethane	ND		1.00		ug/L			10/10/12 15:44	1
Bromodichloromethane	ND		1.00		ug/L			10/10/12 15:44	1
Bromoform	ND		1.00		ug/L			10/10/12 15:44	1
Bromomethane	ND		1.00		ug/L			10/10/12 15:44	1
2-Butanone (MEK)	ND		50.0		ug/L			10/10/12 15:44	1
Carbon disulfide	ND		1.00		ug/L			10/10/12 15:44	1
Carbon tetrachloride	ND		1.00		ug/L			10/10/12 15:44	1
Chlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
Chlorodibromomethane	ND		1.00		ug/L			10/10/12 15:44	1
Chloroethane	ND		1.00		ug/L			10/10/12 15:44	1
Chloroform	ND		1.00		ug/L			10/10/12 15:44	1
Chloromethane	ND		1.00		ug/L			10/10/12 15:44	1
2-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:44	1
4-Chlorotoluene	ND		1.00		ug/L			10/10/12 15:44	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:44	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/10/12 15:44	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/10/12 15:44	1
Dibromomethane	ND		1.00		ug/L			10/10/12 15:44	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/10/12 15:44	1
1,1-Dichloroethane	ND		1.00		ug/L			10/10/12 15:44	1
1,2-Dichloroethane	ND		1.00		ug/L			10/10/12 15:44	1
1,1-Dichloroethene	ND		1.00		ug/L			10/10/12 15:44	1
1,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:44	1
1,3-Dichloropropane	ND		1.00		ug/L			10/10/12 15:44	1
2,2-Dichloropropane	ND		1.00		ug/L			10/10/12 15:44	1
1,1-Dichloropropene	ND		1.00		ug/L			10/10/12 15:44	1
Ethylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
Hexachlorobutadiene	ND		2.00		ug/L			10/10/12 15:44	1
2-Hexanone	ND		10.0		ug/L			10/10/12 15:44	1
Isopropylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
Methylene Chloride	ND		5.00		ug/L			10/10/12 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/10/12 15:44	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/10/12 15:44	1
Naphthalene	ND		5.00		ug/L			10/10/12 15:44	1
n-Butylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
N-Propylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
p-Isopropyltoluene	ND		1.00		ug/L			10/10/12 15:44	1
sec-Butylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
Styrene	ND		1.00		ug/L			10/10/12 15:44	1
tert-Butylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:44	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/10/12 15:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27099/7
Matrix: Water
Analysis Batch: 27099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/10/12 15:44	1
Toluene	ND		1.00		ug/L			10/10/12 15:44	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/10/12 15:44	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/10/12 15:44	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/10/12 15:44	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/10/12 15:44	1
Trichloroethene	ND		1.00		ug/L			10/10/12 15:44	1
Trichlorofluoromethane	ND		1.00		ug/L			10/10/12 15:44	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/10/12 15:44	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/10/12 15:44	1
Vinyl chloride	ND		1.00		ug/L			10/10/12 15:44	1
Xylenes, Total	ND		3.00		ug/L			10/10/12 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/10/12 15:44*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/10/12 15:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/10/12 15:44*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/10/12 15:44*	*1*

Lab Sample ID: LCS 490-27099/3
Matrix: Water
Analysis Batch: 27099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	159.6		ug/L		64	54 - 145
Benzene	50.0	47.39		ug/L		95	80 - 121
Bromobenzene	50.0	44.39		ug/L		89	68 - 130
Bromochloromethane	50.0	51.37		ug/L		103	78 - 129
Bromodichloromethane	50.0	45.72		ug/L		91	75 - 129
Bromoform	50.0	48.73		ug/L		97	46 - 145
Bromomethane	50.0	61.59		ug/L		123	41 - 150
2-Butanone (MEK)	250	176.4		ug/L		71	62 - 133
Carbon disulfide	50.0	52.17		ug/L		104	77 - 126
Carbon tetrachloride	50.0	48.99		ug/L		98	64 - 147
Chlorobenzene	50.0	49.69		ug/L		99	80 - 120
Chlorodibromomethane	50.0	50.53		ug/L		101	69 - 133
Chloroethane	50.0	49.38		ug/L		99	72 - 120
Chloroform	50.0	44.16		ug/L		88	73 - 129
Chloromethane	50.0	56.72		ug/L		113	12 - 150
2-Chlorotoluene	50.0	44.59		ug/L		89	75 - 126
4-Chlorotoluene	50.0	46.84		ug/L		94	75 - 130
cis-1,2-Dichloroethene	50.0	50.10		ug/L		100	76 - 125
cis-1,3-Dichloropropene	50.0	52.13		ug/L		104	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	45.38		ug/L		91	54 - 125
1,2-Dibromoethane (EDB)	50.0	51.39		ug/L		103	80 - 129
Dibromomethane	50.0	52.03		ug/L		104	71 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27099/3
Matrix: Water
Analysis Batch: 27099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	49.08		ug/L		98	80 - 121
1,3-Dichlorobenzene	50.0	49.43		ug/L		99	80 - 122
1,4-Dichlorobenzene	50.0	50.31		ug/L		101	80 - 120
Dichlorodifluoromethane	50.0	50.53		ug/L		101	37 - 127
1,1-Dichloroethane	50.0	50.39		ug/L		101	78 - 125
1,2-Dichloroethane	50.0	49.42		ug/L		99	77 - 121
1,1-Dichloroethene	50.0	51.81		ug/L		104	79 - 124
1,2-Dichloropropane	50.0	43.75		ug/L		88	75 - 120
1,3-Dichloropropane	50.0	46.11		ug/L		92	80 - 125
2,2-Dichloropropane	50.0	53.92		ug/L		108	43 - 161
1,1-Dichloropropene	50.0	49.85		ug/L		100	80 - 122
Ethylbenzene	50.0	47.36		ug/L		95	80 - 130
Hexachlorobutadiene	50.0	59.50		ug/L		119	49 - 146
2-Hexanone	250	191.6		ug/L		77	60 - 142
Isopropylbenzene	50.0	53.37		ug/L		107	80 - 141
Methylene Chloride	50.0	48.35		ug/L		97	79 - 123
4-Methyl-2-pentanone (MIBK)	250	198.6		ug/L		79	60 - 137
Methyl tert-butyl ether	50.0	48.73		ug/L		97	72 - 133
Naphthalene	50.0	43.45		ug/L		87	62 - 138
n-Butylbenzene	50.0	46.29		ug/L		93	68 - 132
N-Propylbenzene	50.0	44.99		ug/L		90	75 - 129
p-Isopropyltoluene	50.0	47.59		ug/L		95	75 - 128
sec-Butylbenzene	50.0	47.84		ug/L		96	76 - 128
Styrene	50.0	51.23		ug/L		102	80 - 127
tert-Butylbenzene	50.0	48.62		ug/L		97	76 - 126
1,1,1,2-Tetrachloroethane	50.0	50.70		ug/L		101	74 - 135
1,1,2,2-Tetrachloroethane	50.0	42.73		ug/L		85	69 - 131
Tetrachloroethene	50.0	54.84		ug/L		110	80 - 126
Toluene	50.0	49.43		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	51.69		ug/L		103	79 - 126
trans-1,3-Dichloropropene	50.0	47.92		ug/L		96	63 - 134
1,2,3-Trichlorobenzene	50.0	50.80		ug/L		102	62 - 133
1,2,4-Trichlorobenzene	50.0	53.35		ug/L		107	63 - 133
1,1,1-Trichloroethane	50.0	53.90		ug/L		108	78 - 135
1,1,2-Trichloroethane	50.0	48.48		ug/L		97	80 - 124
Trichloroethene	50.0	52.42		ug/L		105	80 - 123
Trichlorofluoromethane	50.0	55.46		ug/L		111	65 - 124
1,2,3-Trichloropropane	50.0	43.15		ug/L		86	70 - 131
1,2,4-Trimethylbenzene	50.0	46.54		ug/L		93	77 - 126
1,3,5-Trimethylbenzene	50.0	47.34		ug/L		95	77 - 127
Vinyl chloride	50.0	45.11		ug/L		90	68 - 120
Xylenes, Total	150	143.3		ug/L		96	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-27099/4
Matrix: Water
Analysis Batch: 27099

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	178.3		ug/L		71	54 - 145	11	21
Benzene	50.0	47.83		ug/L		96	80 - 121	1	17
Bromobenzene	50.0	46.22		ug/L		92	68 - 130	4	20
Bromochloromethane	50.0	52.63		ug/L		105	78 - 129	2	17
Bromodichloromethane	50.0	46.15		ug/L		92	75 - 129	1	18
Bromoform	50.0	47.21		ug/L		94	46 - 145	3	16
Bromomethane	50.0	59.85		ug/L		120	41 - 150	3	50
2-Butanone (MEK)	250	188.2		ug/L		75	62 - 133	6	19
Carbon disulfide	50.0	51.62		ug/L		103	77 - 126	1	21
Carbon tetrachloride	50.0	49.02		ug/L		98	64 - 147	0	19
Chlorobenzene	50.0	50.56		ug/L		101	80 - 120	2	14
Chlorodibromomethane	50.0	50.65		ug/L		101	69 - 133	0	15
Chloroethane	50.0	48.90		ug/L		98	72 - 120	1	20
Chloroform	50.0	43.97		ug/L		88	73 - 129	0	18
Chloromethane	50.0	52.99		ug/L		106	12 - 150	7	31
2-Chlorotoluene	50.0	45.80		ug/L		92	75 - 126	3	17
4-Chlorotoluene	50.0	47.37		ug/L		95	75 - 130	1	18
cis-1,2-Dichloroethene	50.0	49.69		ug/L		99	76 - 125	1	17
cis-1,3-Dichloropropene	50.0	51.30		ug/L		103	74 - 140	2	15
1,2-Dibromo-3-Chloropropane	50.0	44.03		ug/L		88	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	51.99		ug/L		104	80 - 129	1	15
Dibromomethane	50.0	53.28		ug/L		107	71 - 125	2	16
1,2-Dichlorobenzene	50.0	50.18		ug/L		100	80 - 121	2	15
1,3-Dichlorobenzene	50.0	50.63		ug/L		101	80 - 122	2	15
1,4-Dichlorobenzene	50.0	50.90		ug/L		102	80 - 120	1	15
Dichlorodifluoromethane	50.0	52.12		ug/L		104	37 - 127	3	18
1,1-Dichloroethane	50.0	49.97		ug/L		100	78 - 125	1	17
1,2-Dichloroethane	50.0	50.42		ug/L		101	77 - 121	2	17
1,1-Dichloroethene	50.0	52.22		ug/L		104	79 - 124	1	17
1,2-Dichloropropane	50.0	44.20		ug/L		88	75 - 120	1	17
1,3-Dichloropropane	50.0	46.36		ug/L		93	80 - 125	1	14
2,2-Dichloropropane	50.0	54.11		ug/L		108	43 - 161	0	18
1,1-Dichloropropene	50.0	49.93		ug/L		100	80 - 122	0	17
Ethylbenzene	50.0	47.77		ug/L		96	80 - 130	1	15
Hexachlorobutadiene	50.0	58.08		ug/L		116	49 - 146	2	23
2-Hexanone	250	200.8		ug/L		80	60 - 142	5	15
Isopropylbenzene	50.0	52.94		ug/L		106	80 - 141	1	16
Methylene Chloride	50.0	47.95		ug/L		96	79 - 123	1	17
4-Methyl-2-pentanone (MIBK)	250	209.1		ug/L		84	60 - 137	5	17
Methyl tert-butyl ether	50.0	50.73		ug/L		101	72 - 133	4	16
Naphthalene	50.0	47.23		ug/L		94	62 - 138	8	26
n-Butylbenzene	50.0	46.79		ug/L		94	68 - 132	1	18
N-Propylbenzene	50.0	46.05		ug/L		92	75 - 129	2	17
p-Isopropyltoluene	50.0	48.42		ug/L		97	75 - 128	2	16
sec-Butylbenzene	50.0	48.52		ug/L		97	76 - 128	1	16
Styrene	50.0	51.07		ug/L		102	80 - 127	0	24
tert-Butylbenzene	50.0	49.48		ug/L		99	76 - 126	2	16
1,1,1,2-Tetrachloroethane	50.0	50.76		ug/L		102	74 - 135	0	16
1,1,2,2-Tetrachloroethane	50.0	45.68		ug/L		91	69 - 131	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-27099/4
Matrix: Water
Analysis Batch: 27099

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	50.0	54.22		ug/L		108	80 - 126	1	16
Toluene	50.0	48.68		ug/L		97	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	51.37		ug/L		103	79 - 126	1	16
trans-1,3-Dichloropropene	50.0	47.87		ug/L		96	63 - 134	0	14
1,2,3-Trichlorobenzene	50.0	53.66		ug/L		107	62 - 133	5	25
1,2,4-Trichlorobenzene	50.0	55.29		ug/L		111	63 - 133	4	19
1,1,1-Trichloroethane	50.0	53.88		ug/L		108	78 - 135	0	17
1,1,2-Trichloroethane	50.0	49.24		ug/L		98	80 - 124	2	15
Trichloroethene	50.0	53.29		ug/L		107	80 - 123	2	17
Trichlorofluoromethane	50.0	54.41		ug/L		109	65 - 124	2	18
1,2,3-Trichloropropane	50.0	46.91		ug/L		94	70 - 131	8	19
1,2,4-Trimethylbenzene	50.0	47.71		ug/L		95	77 - 126	2	16
1,3,5-Trimethylbenzene	50.0	48.59		ug/L		97	77 - 127	3	17
Vinyl chloride	50.0	44.96		ug/L		90	68 - 120	0	17
Xylenes, Total	150	143.7		ug/L		96	80 - 132	0	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-27169/7
Matrix: Water
Analysis Batch: 27169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/11/12 11:04	1
Benzene	ND		1.00		ug/L			10/11/12 11:04	1
Bromobenzene	ND		1.00		ug/L			10/11/12 11:04	1
Bromochloromethane	ND		1.00		ug/L			10/11/12 11:04	1
Bromodichloromethane	ND		1.00		ug/L			10/11/12 11:04	1
Bromoform	ND		1.00		ug/L			10/11/12 11:04	1
Bromomethane	ND		1.00		ug/L			10/11/12 11:04	1
2-Butanone (MEK)	ND		50.0		ug/L			10/11/12 11:04	1
Carbon disulfide	ND		1.00		ug/L			10/11/12 11:04	1
Carbon tetrachloride	ND		1.00		ug/L			10/11/12 11:04	1
Chlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
Chlorodibromomethane	ND		1.00		ug/L			10/11/12 11:04	1
Chloroethane	ND		1.00		ug/L			10/11/12 11:04	1
Chloroform	ND		1.00		ug/L			10/11/12 11:04	1
Chloromethane	ND		1.00		ug/L			10/11/12 11:04	1
2-Chlorotoluene	ND		1.00		ug/L			10/11/12 11:04	1
4-Chlorotoluene	ND		1.00		ug/L			10/11/12 11:04	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/11/12 11:04	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/11/12 11:04	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/11/12 11:04	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/11/12 11:04	1
Dibromomethane	ND		1.00		ug/L			10/11/12 11:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27169/7
Matrix: Water
Analysis Batch: 27169

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/11/12 11:04	1
1,1-Dichloroethane	ND		1.00		ug/L			10/11/12 11:04	1
1,2-Dichloroethane	ND		1.00		ug/L			10/11/12 11:04	1
1,1-Dichloroethene	ND		1.00		ug/L			10/11/12 11:04	1
1,2-Dichloropropane	ND		1.00		ug/L			10/11/12 11:04	1
1,3-Dichloropropane	ND		1.00		ug/L			10/11/12 11:04	1
2,2-Dichloropropane	ND		1.00		ug/L			10/11/12 11:04	1
1,1-Dichloropropene	ND		1.00		ug/L			10/11/12 11:04	1
Ethylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
Hexachlorobutadiene	ND		2.00		ug/L			10/11/12 11:04	1
2-Hexanone	ND		10.0		ug/L			10/11/12 11:04	1
Isopropylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
Methylene Chloride	ND		5.00		ug/L			10/11/12 11:04	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/11/12 11:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/11/12 11:04	1
Naphthalene	ND		5.00		ug/L			10/11/12 11:04	1
n-Butylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
N-Propylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
p-Isopropyltoluene	ND		1.00		ug/L			10/11/12 11:04	1
sec-Butylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
Styrene	ND		1.00		ug/L			10/11/12 11:04	1
tert-Butylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/11/12 11:04	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/11/12 11:04	1
Tetrachloroethene	ND		1.00		ug/L			10/11/12 11:04	1
Toluene	ND		1.00		ug/L			10/11/12 11:04	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/11/12 11:04	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/11/12 11:04	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/11/12 11:04	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/11/12 11:04	1
Trichloroethene	ND		1.00		ug/L			10/11/12 11:04	1
Trichlorofluoromethane	ND		1.00		ug/L			10/11/12 11:04	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/11/12 11:04	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/11/12 11:04	1
Vinyl chloride	ND		1.00		ug/L			10/11/12 11:04	1
Xylenes, Total	ND		3.00		ug/L			10/11/12 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/11/12 11:04*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/11/12 11:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/11/12 11:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/11/12 11:04*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27169/3
Matrix: Water
Analysis Batch: 27169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	205.8		ug/L		82	54 - 145
Benzene	50.0	42.59		ug/L		85	80 - 121
Bromobenzene	50.0	40.39		ug/L		81	68 - 130
Bromochloromethane	50.0	51.06		ug/L		102	78 - 129
Bromodichloromethane	50.0	42.74		ug/L		85	75 - 129
Bromoform	50.0	44.55		ug/L		89	46 - 145
Bromomethane	50.0	57.10		ug/L		114	41 - 150
2-Butanone (MEK)	250	212.7		ug/L		85	62 - 133
Carbon disulfide	50.0	40.73		ug/L		81	77 - 126
Carbon tetrachloride	50.0	38.03		ug/L		76	64 - 147
Chlorobenzene	50.0	44.86		ug/L		90	80 - 120
Chlorodibromomethane	50.0	47.67		ug/L		95	69 - 133
Chloroethane	50.0	42.64		ug/L		85	72 - 120
Chloroform	50.0	41.70		ug/L		83	73 - 129
Chloromethane	50.0	42.54		ug/L		85	12 - 150
2-Chlorotoluene	50.0	38.24		ug/L		76	75 - 126
4-Chlorotoluene	50.0	40.61		ug/L		81	75 - 130
cis-1,2-Dichloroethene	50.0	45.19		ug/L		90	76 - 125
cis-1,3-Dichloropropene	50.0	45.43		ug/L		91	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	42.75		ug/L		86	54 - 125
1,2-Dibromoethane (EDB)	50.0	49.37		ug/L		99	80 - 129
Dibromomethane	50.0	51.28		ug/L		103	71 - 125
1,2-Dichlorobenzene	50.0	44.68		ug/L		89	80 - 121
1,3-Dichlorobenzene	50.0	43.79		ug/L		88	80 - 122
1,4-Dichlorobenzene	50.0	44.97		ug/L		90	80 - 120
Dichlorodifluoromethane	50.0	34.70		ug/L		69	37 - 127
1,1-Dichloroethane	50.0	45.94		ug/L		92	78 - 125
1,2-Dichloroethane	50.0	49.28		ug/L		99	77 - 121
1,1-Dichloroethene	50.0	39.99		ug/L		80	79 - 124
1,2-Dichloropropane	50.0	40.88		ug/L		82	75 - 120
1,3-Dichloropropane	50.0	44.06		ug/L		88	80 - 125
2,2-Dichloropropane	50.0	37.08		ug/L		74	43 - 161
1,1-Dichloropropene	50.0	39.20	*	ug/L		78	80 - 122
Ethylbenzene	50.0	40.05		ug/L		80	80 - 130
Hexachlorobutadiene	50.0	46.85		ug/L		94	49 - 146
2-Hexanone	250	216.9		ug/L		87	60 - 142
Isopropylbenzene	50.0	44.02		ug/L		88	80 - 141
Methylene Chloride	50.0	46.36		ug/L		93	79 - 123
4-Methyl-2-pentanone (MIBK)	250	216.5		ug/L		87	60 - 137
Methyl tert-butyl ether	50.0	49.17		ug/L		98	72 - 133
Naphthalene	50.0	43.76		ug/L		88	62 - 138
n-Butylbenzene	50.0	37.66		ug/L		75	68 - 132
p-Isopropyltoluene	50.0	39.61		ug/L		79	75 - 128
sec-Butylbenzene	50.0	38.82		ug/L		78	76 - 128
Styrene	50.0	45.85		ug/L		92	80 - 127
tert-Butylbenzene	50.0	40.97		ug/L		82	76 - 126
1,1,1,2-Tetrachloroethane	50.0	46.63		ug/L		93	74 - 135
1,1,2,2-Tetrachloroethane	50.0	39.30		ug/L		79	69 - 131
Tetrachloroethene	50.0	43.87		ug/L		88	80 - 126

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27169/3
Matrix: Water
Analysis Batch: 27169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	42.28		ug/L		85	80 - 126
trans-1,2-Dichloroethene	50.0	44.08		ug/L		88	79 - 126
trans-1,3-Dichloropropene	50.0	46.68		ug/L		93	63 - 134
1,2,3-Trichlorobenzene	50.0	48.74		ug/L		97	62 - 133
1,2,4-Trichlorobenzene	50.0	46.73		ug/L		93	63 - 133
1,1,1-Trichloroethane	50.0	43.98		ug/L		88	78 - 135
1,1,2-Trichloroethane	50.0	46.88		ug/L		94	80 - 124
Trichloroethene	50.0	47.98		ug/L		96	80 - 123
Trichlorofluoromethane	50.0	38.89		ug/L		78	65 - 124
1,2,3-Trichloropropane	50.0	45.95		ug/L		92	70 - 131
1,2,4-Trimethylbenzene	50.0	40.41		ug/L		81	77 - 126
1,3,5-Trimethylbenzene	50.0	40.62		ug/L		81	77 - 127
Vinyl chloride	50.0	33.82		ug/L		68	68 - 120
Xylenes, Total	150	124.9		ug/L		83	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-27169/4
Matrix: Water
Analysis Batch: 27169

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	179.6		ug/L		72	54 - 145	14	21
Benzene	50.0	43.60		ug/L		87	80 - 121	2	17
Bromobenzene	50.0	39.81		ug/L		80	68 - 130	1	20
Bromochloromethane	50.0	52.73		ug/L		105	78 - 129	3	17
Bromodichloromethane	50.0	43.53		ug/L		87	75 - 129	2	18
Bromoform	50.0	44.51		ug/L		89	46 - 145	0	16
Bromomethane	50.0	60.09		ug/L		120	41 - 150	5	50
2-Butanone (MEK)	250	196.1		ug/L		78	62 - 133	8	19
Carbon disulfide	50.0	41.76		ug/L		84	77 - 126	2	21
Carbon tetrachloride	50.0	39.88		ug/L		80	64 - 147	5	19
Chlorobenzene	50.0	44.94		ug/L		90	80 - 120	0	14
Chlorodibromomethane	50.0	48.32		ug/L		97	69 - 133	1	15
Chloroethane	50.0	41.16		ug/L		82	72 - 120	4	20
Chloroform	50.0	42.57		ug/L		85	73 - 129	2	18
Chloromethane	50.0	42.77		ug/L		86	12 - 150	1	31
2-Chlorotoluene	50.0	37.59		ug/L		75	75 - 126	2	17
4-Chlorotoluene	50.0	39.51		ug/L		79	75 - 130	3	18
cis-1,2-Dichloroethene	50.0	45.64		ug/L		91	76 - 125	1	17
cis-1,3-Dichloropropene	50.0	46.54		ug/L		93	74 - 140	2	15
1,2-Dibromo-3-Chloropropane	50.0	38.99		ug/L		78	54 - 125	9	24
1,2-Dibromoethane (EDB)	50.0	50.74		ug/L		101	80 - 129	3	15
Dibromomethane	50.0	52.69		ug/L		105	71 - 125	3	16
1,2-Dichlorobenzene	50.0	44.11		ug/L		88	80 - 121	1	15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-27169/4
Matrix: Water
Analysis Batch: 27169

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	50.0	43.08		ug/L		86	80 - 122	2	15
1,4-Dichlorobenzene	50.0	44.21		ug/L		88	80 - 120	2	15
Dichlorodifluoromethane	50.0	36.79		ug/L		74	37 - 127	6	18
1,1-Dichloroethane	50.0	46.12		ug/L		92	78 - 125	0	17
1,2-Dichloroethane	50.0	50.69		ug/L		101	77 - 121	3	17
1,1-Dichloroethene	50.0	41.18		ug/L		82	79 - 124	3	17
1,2-Dichloropropane	50.0	41.72		ug/L		83	75 - 120	2	17
1,3-Dichloropropane	50.0	45.13		ug/L		90	80 - 125	2	14
2,2-Dichloropropane	50.0	37.49		ug/L		75	43 - 161	1	18
1,1-Dichloropropene	50.0	40.06		ug/L		80	80 - 122	2	17
Ethylbenzene	50.0	40.60		ug/L		81	80 - 130	1	15
Hexachlorobutadiene	50.0	46.08		ug/L		92	49 - 146	2	23
2-Hexanone	250	204.2		ug/L		82	60 - 142	6	15
Isopropylbenzene	50.0	44.45		ug/L		89	80 - 141	1	16
Methylene Chloride	50.0	47.06		ug/L		94	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	212.0		ug/L		85	60 - 137	2	17
Methyl tert-butyl ether	50.0	52.11		ug/L		104	72 - 133	6	16
Naphthalene	50.0	41.46		ug/L		83	62 - 138	5	26
n-Butylbenzene	50.0	36.42		ug/L		73	68 - 132	3	18
N-Propylbenzene	50.0	36.22	*	ug/L		72	75 - 129	1	17
p-isopropyltoluene	50.0	38.51		ug/L		77	75 - 128	3	16
sec-Butylbenzene	50.0	38.32		ug/L		77	76 - 128	1	16
Styrene	50.0	46.08		ug/L		92	80 - 127	1	24
tert-Butylbenzene	50.0	39.89		ug/L		80	76 - 126	3	16
1,1,1,2-Tetrachloroethane	50.0	46.87		ug/L		94	74 - 135	1	16
1,1,2,2-Tetrachloroethane	50.0	43.81		ug/L		88	69 - 131	11	20
Tetrachloroethene	50.0	44.93		ug/L		90	80 - 126	2	16
Toluene	50.0	42.77		ug/L		86	80 - 126	1	15
trans-1,2-Dichloroethene	50.0	45.00		ug/L		90	79 - 126	2	16
trans-1,3-Dichloropropene	50.0	43.34		ug/L		87	63 - 134	7	14
1,2,3-Trichlorobenzene	50.0	46.26		ug/L		93	62 - 133	5	25
1,2,4-Trichlorobenzene	50.0	45.15		ug/L		90	63 - 133	3	19
1,1,1-Trichloroethane	50.0	45.51		ug/L		91	78 - 135	3	17
1,1,2-Trichloroethane	50.0	48.29		ug/L		97	80 - 124	3	15
Trichloroethene	50.0	44.77		ug/L		90	80 - 123	7	17
Trichlorofluoromethane	50.0	41.43		ug/L		83	65 - 124	6	18
1,2,3-Trichloropropane	50.0	45.18		ug/L		90	70 - 131	2	19
1,2,4-Trimethylbenzene	50.0	39.51		ug/L		79	77 - 126	2	16
1,3,5-Trimethylbenzene	50.0	39.94		ug/L		80	77 - 127	2	17
Vinyl chloride	50.0	34.20		ug/L		68	68 - 120	1	17
Xylenes, Total	150	125.7		ug/L		84	80 - 132	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27497/7
Matrix: Water
Analysis Batch: 27497

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			10/12/12 12:35	1
Benzene	ND		1.00		ug/L			10/12/12 12:35	1
Bromobenzene	ND		1.00		ug/L			10/12/12 12:35	1
Bromochloromethane	ND		1.00		ug/L			10/12/12 12:35	1
Bromodichloromethane	ND		1.00		ug/L			10/12/12 12:35	1
Bromoform	ND		1.00		ug/L			10/12/12 12:35	1
Bromomethane	ND		1.00		ug/L			10/12/12 12:35	1
2-Butanone (MEK)	ND		50.0		ug/L			10/12/12 12:35	1
Carbon disulfide	ND		1.00		ug/L			10/12/12 12:35	1
Carbon tetrachloride	ND		1.00		ug/L			10/12/12 12:35	1
Chlorobenzene	ND		1.00		ug/L			10/12/12 12:35	1
Chlorodibromomethane	ND		1.00		ug/L			10/12/12 12:35	1
Chloroethane	ND		1.00		ug/L			10/12/12 12:35	1
Chloroform	ND		1.00		ug/L			10/12/12 12:35	1
Chloromethane	ND		1.00		ug/L			10/12/12 12:35	1
2-Chlorotoluene	ND		1.00		ug/L			10/12/12 12:35	1
4-Chlorotoluene	ND		1.00		ug/L			10/12/12 12:35	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/12/12 12:35	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/12/12 12:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/12/12 12:35	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/12/12 12:35	1
Dibromomethane	ND		1.00		ug/L			10/12/12 12:35	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/12/12 12:35	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/12/12 12:35	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/12/12 12:35	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/12/12 12:35	1
1,1-Dichloroethane	ND		1.00		ug/L			10/12/12 12:35	1
1,2-Dichloroethane	ND		1.00		ug/L			10/12/12 12:35	1
1,1-Dichloroethene	ND		1.00		ug/L			10/12/12 12:35	1
1,2-Dichloropropane	ND		1.00		ug/L			10/12/12 12:35	1
1,3-Dichloropropane	ND		1.00		ug/L			10/12/12 12:35	1
2,2-Dichloropropane	ND		1.00		ug/L			10/12/12 12:35	1
1,1-Dichloropropene	ND		1.00		ug/L			10/12/12 12:35	1
Ethylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
Hexachlorobutadiene	ND		2.00		ug/L			10/12/12 12:35	1
2-Hexanone	ND		10.0		ug/L			10/12/12 12:35	1
Isopropylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
Methylene Chloride	ND		5.00		ug/L			10/12/12 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			10/12/12 12:35	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/12/12 12:35	1
Naphthalene	ND		5.00		ug/L			10/12/12 12:35	1
n-Butylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
N-Propylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
p-Isopropyltoluene	ND		1.00		ug/L			10/12/12 12:35	1
sec-Butylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
Styrene	ND		1.00		ug/L			10/12/12 12:35	1
tert-Butylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/12/12 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/12/12 12:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27497/7
Matrix: Water
Analysis Batch: 27497

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/12/12 12:35	1
Toluene	ND		1.00		ug/L			10/12/12 12:35	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/12/12 12:35	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/12/12 12:35	1
1,2,3-Trichlorobenzene	1.206		1.00		ug/L			10/12/12 12:35	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/12/12 12:35	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/12/12 12:35	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/12/12 12:35	1
Trichloroethene	ND		1.00		ug/L			10/12/12 12:35	1
Trichlorofluoromethane	ND		1.00		ug/L			10/12/12 12:35	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/12/12 12:35	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/12/12 12:35	1
Vinyl chloride	ND		1.00		ug/L			10/12/12 12:35	1
Xylenes, Total	ND		3.00		ug/L			10/12/12 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/12/12 12:35*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/12/12 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/12/12 12:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/12/12 12:35*	*1*

Lab Sample ID: LCS 490-27497/3
Matrix: Water
Analysis Batch: 27497

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	264.8		ug/L		105	54 - 145
Benzene	50.0	55.05		ug/L		110	80 - 121
Bromobenzene	50.0	57.13		ug/L		114	68 - 130
Bromochloromethane	50.0	51.02		ug/L		102	78 - 129
Bromodichloromethane	50.0	54.40		ug/L		109	75 - 129
Bromoform	50.0	50.00		ug/L		100	46 - 145
Bromomethane	50.0	50.93		ug/L		102	41 - 150
2-Butanone (MEK)	250	247.3		ug/L		99	62 - 133
Carbon disulfide	50.0	51.56		ug/L		103	77 - 126
Carbon tetrachloride	50.0	58.92		ug/L		118	64 - 147
Chlorobenzene	50.0	55.83		ug/L		112	80 - 120
Chlorodibromomethane	50.0	58.09		ug/L		116	69 - 133
Chloroethane	50.0	76.31	*	ug/L		153	72 - 120
Chloroform	50.0	52.56		ug/L		105	73 - 129
Chloromethane	50.0	30.34		ug/L		61	12 - 150
2-Chlorotoluene	50.0	57.35		ug/L		115	75 - 126
4-Chlorotoluene	50.0	57.42		ug/L		115	75 - 130
cis-1,2-Dichloroethene	50.0	52.55		ug/L		105	76 - 125
cis-1,3-Dichloropropene	50.0	58.64		ug/L		117	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	52.36		ug/L		105	54 - 125
1,2-Dibromoethane (EDB)	50.0	57.18		ug/L		114	80 - 129
Dibromomethane	50.0	51.70		ug/L		103	71 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27497/3
Matrix: Water
Analysis Batch: 27497

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	53.52		ug/L		107	80 - 121
1,3-Dichlorobenzene	50.0	55.91		ug/L		112	80 - 122
1,4-Dichlorobenzene	50.0	55.08		ug/L		110	80 - 120
Dichlorodifluoromethane	50.0	43.57		ug/L		87	37 - 127
1,1-Dichloroethane	50.0	57.20		ug/L		114	78 - 125
1,2-Dichloroethane	50.0	51.24		ug/L		102	77 - 121
1,1-Dichloroethene	50.0	62.61	*	ug/L		125	79 - 124
1,2-Dichloropropane	50.0	51.61		ug/L		103	75 - 120
1,3-Dichloropropane	50.0	56.38		ug/L		113	80 - 125
2,2-Dichloropropane	50.0	57.70		ug/L		115	43 - 161
1,1-Dichloropropene	50.0	55.72		ug/L		111	80 - 122
Ethylbenzene	50.0	54.12		ug/L		108	80 - 130
Hexachlorobutadiene	50.0	36.95		ug/L		74	49 - 146
2-Hexanone	250	266.8		ug/L		107	60 - 142
Isopropylbenzene	50.0	51.90		ug/L		104	80 - 141
Methylene Chloride	50.0	56.01		ug/L		112	79 - 123
4-Methyl-2-pentanone (MIBK)	250	274.8		ug/L		110	60 - 137
Methyl tert-butyl ether	50.0	49.37		ug/L		99	72 - 133
Naphthalene	50.0	43.30		ug/L		87	62 - 138
n-Butylbenzene	50.0	55.72		ug/L		111	68 - 132
N-Propylbenzene	50.0	58.53		ug/L		117	75 - 129
p-Isopropyltoluene	50.0	54.91		ug/L		110	75 - 128
sec-Butylbenzene	50.0	56.61		ug/L		113	76 - 128
Styrene	50.0	50.93		ug/L		102	80 - 127
tert-Butylbenzene	50.0	56.43		ug/L		113	76 - 126
1,1,1,2-Tetrachloroethane	50.0	56.83		ug/L		114	74 - 135
1,1,2,2-Tetrachloroethane	50.0	52.46		ug/L		105	69 - 131
Tetrachloroethene	50.0	59.72		ug/L		119	80 - 126
Toluene	50.0	57.61		ug/L		115	80 - 126
trans-1,2-Dichloroethene	50.0	58.99		ug/L		118	79 - 126
trans-1,3-Dichloropropene	50.0	55.58		ug/L		111	63 - 134
1,2,3-Trichlorobenzene	50.0	41.02		ug/L		82	62 - 133
1,2,4-Trichlorobenzene	50.0	44.63		ug/L		89	63 - 133
1,1,1-Trichloroethane	50.0	56.13		ug/L		112	78 - 135
1,1,2-Trichloroethane	50.0	53.42		ug/L		107	80 - 124
Trichloroethene	50.0	56.67		ug/L		113	80 - 123
Trichlorofluoromethane	50.0	53.12		ug/L		106	65 - 124
1,2,3-Trichloropropane	50.0	55.60		ug/L		111	70 - 131
1,2,4-Trimethylbenzene	50.0	55.00		ug/L		110	77 - 126
1,3,5-Trimethylbenzene	50.0	56.55		ug/L		113	77 - 127
Vinyl chloride	50.0	49.61		ug/L		99	68 - 120
Xylenes, Total	150	153.6		ug/L		102	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-27497/4
Matrix: Water
Analysis Batch: 27497

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	264.1		ug/L		106	54 - 145	0	21
Benzene	50.0	53.97		ug/L		108	80 - 121	2	17
Bromobenzene	50.0	57.07		ug/L		114	68 - 130	0	20
Bromochloromethane	50.0	50.76		ug/L		102	78 - 129	0	17
Bromodichloromethane	50.0	54.11		ug/L		108	75 - 129	1	18
Bromoform	50.0	48.65		ug/L		97	46 - 145	3	16
Bromomethane	50.0	53.17		ug/L		106	41 - 150	4	50
2-Butanone (MEK)	250	246.0		ug/L		98	62 - 133	1	19
Carbon disulfide	50.0	52.02		ug/L		104	77 - 126	1	21
Carbon tetrachloride	50.0	56.18		ug/L		112	64 - 147	5	19
Chlorobenzene	50.0	54.28		ug/L		109	80 - 120	3	14
Chlorodibromomethane	50.0	55.20		ug/L		110	69 - 133	5	15
Chloroethane	50.0	77.26	*	ug/L		155	72 - 120	1	20
Chloroform	50.0	52.43		ug/L		105	73 - 129	0	18
Chloromethane	50.0	28.60		ug/L		57	12 - 150	6	31
2-Chlorotoluene	50.0	56.65		ug/L		113	75 - 126	1	17
4-Chlorotoluene	50.0	56.41		ug/L		113	75 - 130	2	18
cis-1,2-Dichloroethene	50.0	52.15		ug/L		104	76 - 125	1	17
cis-1,3-Dichloropropene	50.0	57.97		ug/L		116	74 - 140	1	15
1,2-Dibromo-3-Chloropropane	50.0	51.16		ug/L		102	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	52.41		ug/L		105	80 - 129	9	15
Dibromomethane	50.0	50.84		ug/L		102	71 - 125	2	16
1,2-Dichlorobenzene	50.0	53.32		ug/L		107	80 - 121	0	15
1,3-Dichlorobenzene	50.0	55.64		ug/L		111	80 - 122	0	15
1,4-Dichlorobenzene	50.0	55.38		ug/L		111	80 - 120	1	15
Dichlorodifluoromethane	50.0	43.31		ug/L		87	37 - 127	1	18
1,1-Dichloroethane	50.0	56.69		ug/L		113	78 - 125	1	17
1,2-Dichloroethane	50.0	52.26		ug/L		105	77 - 121	2	17
1,1-Dichloroethene	50.0	63.45	*	ug/L		127	79 - 124	1	17
1,2-Dichloropropane	50.0	50.52		ug/L		101	75 - 120	2	17
1,3-Dichloropropane	50.0	56.15		ug/L		112	80 - 125	0	14
2,2-Dichloropropane	50.0	54.78		ug/L		110	43 - 161	5	18
1,1-Dichloropropene	50.0	55.29		ug/L		111	80 - 122	1	17
Ethylbenzene	50.0	52.80		ug/L		106	80 - 130	2	15
Hexachlorobutadiene	50.0	37.72		ug/L		75	49 - 146	2	23
2-Hexanone	250	260.9		ug/L		104	60 - 142	2	15
Isopropylbenzene	50.0	51.07		ug/L		102	80 - 141	2	16
Methylene Chloride	50.0	56.15		ug/L		112	79 - 123	0	17
4-Methyl-2-pentanone (MIBK)	250	270.5		ug/L		108	60 - 137	2	17
Methyl tert-butyl ether	50.0	51.02		ug/L		102	72 - 133	3	16
Naphthalene	50.0	46.73		ug/L		93	62 - 138	8	26
n-Butylbenzene	50.0	56.00		ug/L		112	68 - 132	1	18
N-Propylbenzene	50.0	58.33		ug/L		117	75 - 129	0	17
p-Isopropyltoluene	50.0	54.85		ug/L		110	75 - 128	0	16
sec-Butylbenzene	50.0	56.49		ug/L		113	76 - 128	0	16
Styrene	50.0	50.17		ug/L		100	80 - 127	2	24
tert-Butylbenzene	50.0	56.62		ug/L		113	76 - 126	0	16
1,1,1,2-Tetrachloroethane	50.0	56.48		ug/L		113	74 - 135	1	16
1,1,2,2-Tetrachloroethane	50.0	51.61		ug/L		103	69 - 131	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-27497/4
Matrix: Water
Analysis Batch: 27497

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	50.0	57.03		ug/L		114	80 - 126	5	16
Toluene	50.0	56.40		ug/L		113	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	58.98		ug/L		118	79 - 126	0	16
trans-1,3-Dichloropropene	50.0	55.66		ug/L		111	63 - 134	0	14
1,2,3-Trichlorobenzene	50.0	45.96		ug/L		92	62 - 133	11	25
1,2,4-Trichlorobenzene	50.0	47.39		ug/L		95	63 - 133	6	19
1,1,1-Trichloroethane	50.0	55.00		ug/L		110	78 - 135	2	17
1,1,2-Trichloroethane	50.0	53.37		ug/L		107	80 - 124	0	15
Trichloroethene	50.0	55.21		ug/L		110	80 - 123	3	17
Trichlorofluoromethane	50.0	54.79		ug/L		110	65 - 124	3	18
1,2,3-Trichloropropane	50.0	55.68		ug/L		111	70 - 131	0	19
1,2,4-Trimethylbenzene	50.0	54.41		ug/L		109	77 - 126	1	16
1,3,5-Trimethylbenzene	50.0	56.16		ug/L		112	77 - 127	1	17
Vinyl chloride	50.0	50.89		ug/L		102	68 - 120	3	17
Xylenes, Total	150	150.2		ug/L		100	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

GC/MS VOA

Analysis Batch: 26827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8211-1	MCA-5-100212	Total/NA	Water	8260B	
490-8211-2	M&A-104-100112	Total/NA	Water	8260B	
490-8211-3	M&A-111-100212	Total/NA	Water	8260B	
490-8211-4	M&A-112-100112	Total/NA	Water	8260B	
490-8211-9	Trip Blank	Total/NA	Water	8260B	
LCS 490-26827/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-26827/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-26827/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 26948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8211-5	M&A-115-100112	Total/NA	Water	8260B	
490-8211-6	M&A-116-100112	Total/NA	Water	8260B	
490-8211-7	M&A-122-100112	Total/NA	Water	8260B	
490-8211-8	M&A-126-100121	Total/NA	Water	8260B	
LCS 490-26948/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-26948/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-26948/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 27099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8211-1	MCA-5-100212	Total/NA	Water	8260B	
490-8211-2	M&A-104-100112	Total/NA	Water	8260B	
490-8211-4	M&A-112-100112	Total/NA	Water	8260B	
LCS 490-27099/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-27099/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-27099/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 27169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8211-1	MCA-5-100212	Total/NA	Water	8260B	
490-8211-2	M&A-104-100112	Total/NA	Water	8260B	
490-8211-3	M&A-111-100212	Total/NA	Water	8260B	
LCS 490-27169/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-27169/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-27169/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 27497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8211-2	M&A-104-100112	Total/NA	Water	8260B	
LCS 490-27497/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-27497/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-27497/7	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: MCA-5-100212 — **Lab Sample ID: 490-8211-1**
Date Collected: 10/02/12 08:45 — Matrix: Water
Date Received: 10/03/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26827	10/10/12 01:16	BM	TAL NSH
Total/NA	Analysis	8260B		100	27099	10/10/12 22:12	BM	TAL NSH
Total/NA	Analysis	8260B		500	27169	10/11/12 13:33	BM	TAL NSH

Client Sample ID: M&A-104-100112 — **Lab Sample ID: 490-8211-2**
Date Collected: 10/01/12 15:45 — Matrix: Water
Date Received: 10/03/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26827	10/09/12 22:05	BM	TAL NSH
Total/NA	Analysis	8260B		100	27099	10/10/12 22:40	BM	TAL NSH
Total/NA	Analysis	8260B		1000	27169	10/11/12 13:05	BM	TAL NSH
Total/NA	Analysis	8260B		5000	27497	10/12/12 14:11	JM	TAL NSH

Client Sample ID: M&A-111-100212 — **Lab Sample ID: 490-8211-3**
Date Collected: 10/02/12 09:45 — Matrix: Water
Date Received: 10/03/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26827	10/09/12 22:32	BM	TAL NSH
Total/NA	Analysis	8260B		5	27169	10/11/12 12:37	BM	TAL NSH

Client Sample ID: M&A-112-100112 — **Lab Sample ID: 490-8211-4**
Date Collected: 10/01/12 11:30 — Matrix: Water
Date Received: 10/03/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26827	10/09/12 22:59	BM	TAL NSH
Total/NA	Analysis	8260B		50	27099	10/10/12 23:37	BM	TAL NSH

Client Sample ID: M&A-115-100112 — **Lab Sample ID: 490-8211-5**
Date Collected: 10/01/12 11:45 — Matrix: Water
Date Received: 10/03/12 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26948	10/10/12 14:26	JM	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Client Sample ID: M&A-116-100112 — **Lab Sample ID: 490-8211-6**
Date Collected: 10/01/12 14:15
Date Received: 10/03/12 08:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26948	10/10/12 14:54	JM	TAL NSH

Client Sample ID: M&A-122-100112 — **Lab Sample ID: 490-8211-7**
Date Collected: 10/01/12 12:00
Date Received: 10/03/12 08:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26948	10/10/12 15:21	JM	TAL NSH

Client Sample ID: M&A-126-100121 — **Lab Sample ID: 490-8211-8**
Date Collected: 10/02/12 11:15
Date Received: 10/03/12 08:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26948	10/10/12 15:48	JM	TAL NSH

Client Sample ID: Trip Blank — **Lab Sample ID: 490-8211-9**
Date Collected: 10/01/12 00:01
Date Received: 10/03/12 08:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	26827	10/09/12 20:43	BM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event (October)

TestAmerica Job ID: 490-8211-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT

490-8211 Chain of

Cooler Received/Opened On 10/3/2012 @ 0820

1. Tracking # 3832 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 5.0 *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: Two 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) DA

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) [signature]

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) [signature]

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) [signature]

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

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

12

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

10/15/2012

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

10/15/2012

Client Information	Sampler: KSears	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-3907-1777.1
Client Contact: Christopher Mabbett	Phone: 6175120912	E-Mail: ken.hayes@testamericainc.com		Page: Page 1 of 2
Company: Mabbett & Associates, Inc.				Job #:
Address: 5 Alfred Circle	Due Date Requested:			
City: Bedford	TAT Requested (days):			
State, Zip: MA, 01730				
Phone:	PO #: Purchase Order Requested			
Email: cmabbett@mabbett.com	WO #:			
Project Name: Bodycote-SemiAnnual Event (October)	Project #: 49002697			
Site: 7812756050	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List	Total Number of containers	Special Instructions/Note:
	Preservation Code:							A		
1	MCA-5-100212	10/2/12	845	G	Water			X		
2	M+A-104-100112	10/1/12	1545	G	Water			X		
3	M+A-111-100212	10/2/12	945	G	Water			X		
4	M+A-112-100112	10/1/12	1130	G	Water			X		
5	M+A-115-100112	10/1/12	1145	G	Water			X		
6	M+A-116-100112	10/1/12	1415	G	Water			X		
7	M+A-122-100112	10/1/12	1200	G	Water			X		
8	M+A-126-100212	10/2/12	1115	G	Water			X		
					Water					
					Water					
					Water					

Loc: 490
8211

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K Sears	10/2/12 1600	Mabbett	5.0	10-3-12 0820	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Login Sample Receipt Checklist

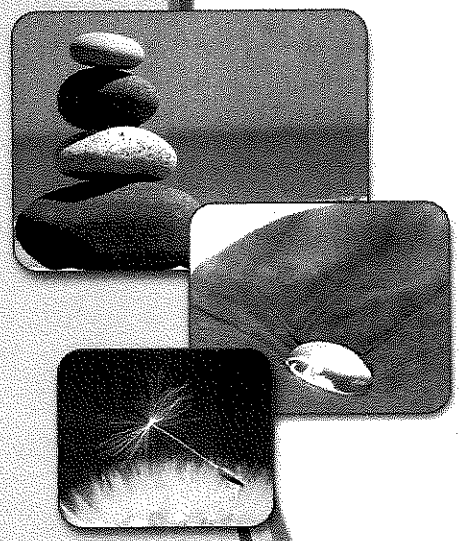
Client: Mabbett & Associates, Inc.

Job Number: 490-8211-1

Login Number: 8211
List Number: 1
Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-24661-1
Client Project/Site: Bodycote-SemiAnnual Event

For:
Mabbett & Associates, Inc.
5 Alfred Circle
Bedford, Massachusetts 01730

Attn: Christopher Mabbett

Roxanne L Connor

Authorized for release by:
4/25/2013 11:07:14 AM
Roxanne Connor
Senior Project Manager
roxanne.connor@testamericainc.com

Designee for

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-24661-1	MCA-5-041713	Water	04/17/13 09:45	04/18/13 08:15
490-24661-2	M&A-104-041613	Water	04/16/13 14:40	04/18/13 08:15
490-24661-3	M&A-111-041713	Water	04/17/13 10:15	04/18/13 08:15
490-24661-4	M&A-112-041713	Water	04/17/13 11:10	04/18/13 08:15
490-24661-5	M&A-116-041613	Water	04/16/13 10:45	04/18/13 08:15
490-24661-6	M&A-122-041713	Water	04/17/13 08:30	04/18/13 08:15
490-24661-7	M&A-126-041713	Water	04/17/13 10:45	04/18/13 08:15
490-24661-8	Trip Blank	Water	04/16/13 00:01	04/18/13 08:15

Job ID: 490-24661-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-24661-1

Comments
No additional comments.

Receipt
The samples were received on 4/18/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

GC/MS VOA
Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 74248.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 74248 exceeded control limits for the following analytes: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 74249 exceeded control limits for the following analyte: 1,4-Dichlorobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 74249.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: M&A-104-041613 (490-24661-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

5

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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Client Sample ID: MCA-5-041713
Date Collected: 04/17/13 09:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/21/13 06:29	1
Benzene	ND		1.00		ug/L			04/21/13 06:29	1
Bromobenzene	ND		1.00		ug/L			04/21/13 06:29	1
Bromochloromethane	ND		1.00		ug/L			04/21/13 06:29	1
Bromodichloromethane	ND		1.00		ug/L			04/21/13 06:29	1
Bromoform	ND		1.00		ug/L			04/21/13 06:29	1
Bromomethane	ND		1.00		ug/L			04/21/13 06:29	1
2-Butanone (MEK)	ND		50.0		ug/L			04/21/13 06:29	1
Carbon disulfide	ND		1.00		ug/L			04/21/13 06:29	1
Carbon tetrachloride	ND		1.00		ug/L			04/21/13 06:29	1
Chlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
Chlorodibromomethane	ND		1.00		ug/L			04/21/13 06:29	1
Chloroethane	ND		1.00		ug/L			04/21/13 06:29	1
Chloroform	ND		1.00		ug/L			04/21/13 06:29	1
Chloromethane	ND		1.00		ug/L			04/21/13 06:29	1
2-Chlorotoluene	ND		1.00		ug/L			04/21/13 06:29	1
4-Chlorotoluene	ND		1.00		ug/L			04/21/13 06:29	1
cis-1,2-Dichloroethene	**17500**		100		ug/L			04/24/13 03:36	100
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 06:29	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/21/13 06:29	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/21/13 06:29	1
Dibromomethane	ND		1.00		ug/L			04/21/13 06:29	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/21/13 06:29	1
1,1-Dichloroethane	**1.29**		1.00		ug/L			04/21/13 06:29	1
1,2-Dichloroethane	ND		1.00		ug/L			04/21/13 06:29	1
1,1-Dichloroethene	**91.8**		1.00		ug/L			04/21/13 06:29	1
1,2-Dichloropropane	ND		1.00		ug/L			04/21/13 06:29	1
1,3-Dichloropropane	ND		1.00		ug/L			04/21/13 06:29	1
2,2-Dichloropropane	ND		1.00		ug/L			04/21/13 06:29	1
1,1-Dichloropropene	ND		1.00		ug/L			04/21/13 06:29	1
Ethylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
Hexachlorobutadiene	ND		2.00		ug/L			04/21/13 06:29	1
2-Hexanone	ND		10.0		ug/L			04/21/13 06:29	1
Isopropylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
Methylene Chloride	ND		5.00		ug/L			04/21/13 06:29	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/21/13 06:29	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/21/13 06:29	1
Naphthalene	ND		5.00		ug/L			04/21/13 06:29	1
n-Butylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
N-Propylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
p-Isopropyltoluene	ND		1.00		ug/L			04/21/13 06:29	1
sec-Butylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
Styrene	ND		1.00		ug/L			04/21/13 06:29	1
tert-Butylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 06:29	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 06:29	1

Client Sample ID: MCA-5-041713
Date Collected: 04/17/13 09:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	37.9		1.00		ug/L			04/21/13 06:29	1
Toluene	ND		1.00		ug/L			04/21/13 06:29	1
trans-1,2-Dichloroethene	473		100		ug/L			04/24/13 03:36	100
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 06:29	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/21/13 06:29	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/21/13 06:29	1
Trichloroethene	25700		1000		ug/L			04/24/13 04:04	1000
Trichlorofluoromethane	ND		1.00		ug/L			04/21/13 06:29	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/21/13 06:29	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/21/13 06:29	1
Vinyl chloride	62.9		1.00		ug/L			04/21/13 06:29	1
Xylenes, Total	ND		3.00		ug/L			04/21/13 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/21/13 06:29*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/24/13 03:36*	*100*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/24/13 04:04*	*1000*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/21/13 06:29*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/24/13 03:36*	*100*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/24/13 04:04*	*1000*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/21/13 06:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/24/13 03:36*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/24/13 04:04*	*1000*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/21/13 06:29*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/24/13 03:36*	*100*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/24/13 04:04*	*1000*

Client Sample ID: M&A-104-041613
Date Collected: 04/16/13 14:40
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50000		ug/L			04/24/13 05:27	1000
Benzene	ND		1000		ug/L			04/24/13 05:27	1000
Bromobenzene	ND		1000		ug/L			04/24/13 05:27	1000
Bromochloromethane	ND		1000		ug/L			04/24/13 05:27	1000
Bromodichloromethane	ND		1000		ug/L			04/24/13 05:27	1000
Bromoform	ND		1000		ug/L			04/24/13 05:27	1000
Bromomethane	ND		1000		ug/L			04/24/13 05:27	1000
2-Butanone (MEK)	ND		50000		ug/L			04/24/13 05:27	1000
Carbon disulfide	ND		1000		ug/L			04/24/13 05:27	1000
Carbon tetrachloride	ND		1000		ug/L			04/24/13 05:27	1000
Chlorobenzene	ND		1000		ug/L			04/24/13 05:27	1000
Chlorodibromomethane	ND		1000		ug/L			04/24/13 05:27	1000
Chloroethane	ND		1000		ug/L			04/24/13 05:27	1000
Chloroform	ND		1000		ug/L			04/24/13 05:27	1000
Chloromethane	ND		1000		ug/L			04/24/13 05:27	1000
2-Chlorotoluene	ND		1000		ug/L			04/24/13 05:27	1000
4-Chlorotoluene	ND		1000		ug/L			04/24/13 05:27	1000
cis-1,2-Dichloroethene	**36400**		1000		ug/L			04/24/13 05:27	1000
cis-1,3-Dichloropropene	ND		1000		ug/L			04/24/13 05:27	1000
1,2-Dibromo-3-Chloropropane	ND		10000		ug/L			04/24/13 05:27	1000
1,2-Dibromoethane (EDB)	ND		1000		ug/L			04/24/13 05:27	1000
Dibromomethane	ND		1000		ug/L			04/24/13 05:27	1000
1,2-Dichlorobenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,3-Dichlorobenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,4-Dichlorobenzene	ND	*	1000		ug/L			04/24/13 05:27	1000
Dichlorodifluoromethane	ND		1000		ug/L			04/24/13 05:27	1000
1,1-Dichloroethane	ND		1000		ug/L			04/24/13 05:27	1000
1,2-Dichloroethane	ND		1000		ug/L			04/24/13 05:27	1000
1,1-Dichloroethene	ND		1000		ug/L			04/24/13 05:27	1000
1,2-Dichloropropane	ND		1000		ug/L			04/24/13 05:27	1000
1,3-Dichloropropane	ND		1000		ug/L			04/24/13 05:27	1000
2,2-Dichloropropane	ND		1000		ug/L			04/24/13 05:27	1000
1,1-Dichloropropene	ND		1000		ug/L			04/24/13 05:27	1000
Ethylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
Hexachlorobutadiene	ND		2000		ug/L			04/24/13 05:27	1000
2-Hexanone	ND		10000		ug/L			04/24/13 05:27	1000
Isopropylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
Methylene Chloride	ND		5000		ug/L			04/24/13 05:27	1000
4-Methyl-2-pentanone (MIBK)	ND		10000		ug/L			04/24/13 05:27	1000
Methyl tert-butyl ether	ND		1000		ug/L			04/24/13 05:27	1000
Naphthalene	ND		5000		ug/L			04/24/13 05:27	1000
n-Butylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
N-Propylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
p-Isopropyltoluene	ND		1000		ug/L			04/24/13 05:27	1000
sec-Butylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
Styrene	ND		1000		ug/L			04/24/13 05:27	1000
tert-Butylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,1,1,2-Tetrachloroethane	ND		1000		ug/L			04/24/13 05:27	1000
1,1,2,2-Tetrachloroethane	ND		1000		ug/L			04/24/13 05:27	1000

Client Sample ID: M&A-104-041613
Date Collected: 04/16/13 14:40
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1390		1000		ug/L			04/24/13 05:27	1000
Toluene	ND		1000		ug/L			04/24/13 05:27	1000
trans-1,2-Dichloroethene	ND		1000		ug/L			04/24/13 05:27	1000
trans-1,3-Dichloropropene	ND		1000		ug/L			04/24/13 05:27	1000
1,2,3-Trichlorobenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,2,4-Trichlorobenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,1,1-Trichloroethane	ND		1000		ug/L			04/24/13 05:27	1000
1,1,2-Trichloroethane	ND		1000		ug/L			04/24/13 05:27	1000
Trichloroethene	157000		10000		ug/L			04/24/13 05:55	10000
Trichlorofluoromethane	ND		1000		ug/L			04/24/13 05:27	1000
1,2,3-Trichloropropane	ND		1000		ug/L			04/24/13 05:27	1000
1,2,4-Trimethylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
1,3,5-Trimethylbenzene	ND		1000		ug/L			04/24/13 05:27	1000
Vinyl chloride	1770		1000		ug/L			04/24/13 05:27	1000
Xylenes, Total	ND		3000		ug/L			04/24/13 05:27	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/24/13 05:27*	*1000*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/24/13 05:55*	*10000*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/24/13 05:27*	*1000*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/24/13 05:55*	*10000*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/24/13 05:27*	*1000*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/24/13 05:55*	*10000*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/24/13 05:27*	*1000*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/24/13 05:55*	*10000*

Client Sample ID: M&A-111-041713
Date Collected: 04/17/13 10:15
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 17:56	1
Benzene	ND		1.00		ug/L			04/23/13 17:56	1
Bromobenzene	ND		1.00		ug/L			04/23/13 17:56	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 17:56	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 17:56	1
Bromoform	ND		1.00		ug/L			04/23/13 17:56	1
Bromomethane	ND		1.00		ug/L			04/23/13 17:56	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 17:56	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 17:56	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 17:56	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 17:56	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 17:56	1
Chloroethane	ND		1.00		ug/L			04/23/13 17:56	1
Chloroform	ND		1.00		ug/L			04/23/13 17:56	1
Chloromethane	ND		1.00		ug/L			04/23/13 17:56	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 17:56	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 17:56	1
cis-1,2-Dichloroethene	8.14		1.00		ug/L			04/23/13 17:56	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 17:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 17:56	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 17:56	1
Dibromomethane	ND		1.00		ug/L			04/23/13 17:56	1
1,2-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 17:56	1
1,3-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 17:56	1
1,4-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 17:56	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 17:56	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 17:56	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 17:56	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 17:56	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 17:56	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 17:56	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 17:56	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 17:56	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 17:56	1
2-Hexanone	ND		10.0		ug/L			04/23/13 17:56	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 17:56	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 17:56	1
Naphthalene	ND		5.00		ug/L			04/23/13 17:56	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 17:56	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
Styrene	ND		1.00		ug/L			04/23/13 17:56	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 17:56	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 17:56	1

Client Sample ID: M&A-111-041713
Date Collected: 04/17/13 10:15
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	*	1.00		ug/L			04/23/13 17:56	1
Toluene	1.64		1.00		ug/L			04/23/13 17:56	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 17:56	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 17:56	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 17:56	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 17:56	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 17:56	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 17:56	1
Trichloroethene	9.92		1.00		ug/L			04/23/13 17:56	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 17:56	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 17:56	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 17:56	1
Vinyl chloride	516		10.0		ug/L			04/23/13 18:24	10
Xylenes, Total	ND		3.00		ug/L			04/23/13 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/23/13 17:56*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/23/13 18:24*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/23/13 17:56*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/23/13 18:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/23/13 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/23/13 18:24*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/23/13 17:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/23/13 18:24*	*10*

Client Sample ID: M&A-112-041713
Date Collected: 04/17/13 11:10
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/21/13 07:52	1
Benzene	ND		1.00		ug/L			04/21/13 07:52	1
Bromobenzene	ND		1.00		ug/L			04/21/13 07:52	1
Bromochloromethane	ND		1.00		ug/L			04/21/13 07:52	1
Bromodichloromethane	ND		1.00		ug/L			04/21/13 07:52	1
Bromoform	ND		1.00		ug/L			04/21/13 07:52	1
Bromomethane	ND		1.00		ug/L			04/21/13 07:52	1
2-Butanone (MEK)	ND		50.0		ug/L			04/21/13 07:52	1
Carbon disulfide	ND		1.00		ug/L			04/21/13 07:52	1
Carbon tetrachloride	ND		1.00		ug/L			04/21/13 07:52	1
Chlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
Chlorodibromomethane	ND		1.00		ug/L			04/21/13 07:52	1
Chloroethane	ND		1.00		ug/L			04/21/13 07:52	1
Chloroform	ND		1.00		ug/L			04/21/13 07:52	1
Chloromethane	ND		1.00		ug/L			04/21/13 07:52	1
2-Chlorotoluene	ND		1.00		ug/L			04/21/13 07:52	1
4-Chlorotoluene	ND		1.00		ug/L			04/21/13 07:52	1
cis-1,2-Dichloroethene	**3510**		100		ug/L			04/24/13 02:41	100
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 07:52	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/21/13 07:52	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/21/13 07:52	1
Dibromomethane	ND		1.00		ug/L			04/21/13 07:52	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/21/13 07:52	1
1,1-Dichloroethane	ND		1.00		ug/L			04/21/13 07:52	1
1,2-Dichloroethane	ND		1.00		ug/L			04/21/13 07:52	1
1,1-Dichloroethene	**28.5**		1.00		ug/L			04/21/13 07:52	1
1,2-Dichloropropane	ND		1.00		ug/L			04/21/13 07:52	1
1,3-Dichloropropane	ND		1.00		ug/L			04/21/13 07:52	1
2,2-Dichloropropane	ND		1.00		ug/L			04/21/13 07:52	1
1,1-Dichloropropene	ND		1.00		ug/L			04/21/13 07:52	1
Ethylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
Hexachlorobutadiene	ND		2.00		ug/L			04/21/13 07:52	1
2-Hexanone	ND		10.0		ug/L			04/21/13 07:52	1
Isopropylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
Methylene Chloride	ND		5.00		ug/L			04/21/13 07:52	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/21/13 07:52	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/21/13 07:52	1
Naphthalene	ND		5.00		ug/L			04/21/13 07:52	1
n-Butylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
N-Propylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
p-Isopropyltoluene	ND		1.00		ug/L			04/21/13 07:52	1
sec-Butylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
Styrene	ND		1.00		ug/L			04/21/13 07:52	1
tert-Butylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 07:52	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 07:52	1

Client Sample ID: M&A-112-041713
Date Collected: 04/17/13 11:10
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	36.7		1.00		ug/L			04/21/13 07:52	1
Toluene	1.41		1.00		ug/L			04/21/13 07:52	1
trans-1,2-Dichloroethene	29.1		1.00		ug/L			04/21/13 07:52	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 07:52	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/21/13 07:52	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/21/13 07:52	1
Trichloroethene	660		10.0		ug/L			04/24/13 02:13	10
Trichlorofluoromethane	ND		1.00		ug/L			04/21/13 07:52	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/21/13 07:52	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/21/13 07:52	1
Vinyl chloride	406		10.0		ug/L			04/24/13 02:13	10
Xylenes, Total	ND		3.00		ug/L			04/21/13 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/21/13 07:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/24/13 02:13*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/24/13 02:41*	*100*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/21/13 07:52*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/24/13 02:13*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/24/13 02:41*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/21/13 07:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/24/13 02:13*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/24/13 02:41*	*100*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/21/13 07:52*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/24/13 02:13*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/24/13 02:41*	*100*

Client Sample ID: M&A-116-041613
Date Collected: 04/16/13 10:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 14:42	1
Benzene	ND		1.00		ug/L			04/23/13 14:42	1
Bromobenzene	ND		1.00		ug/L			04/23/13 14:42	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 14:42	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 14:42	1
Bromoform	ND		1.00		ug/L			04/23/13 14:42	1
Bromomethane	ND		1.00		ug/L			04/23/13 14:42	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 14:42	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 14:42	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 14:42	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 14:42	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 14:42	1
Chloroethane	ND		1.00		ug/L			04/23/13 14:42	1
Chloroform	ND		1.00		ug/L			04/23/13 14:42	1
Chloromethane	ND		1.00		ug/L			04/23/13 14:42	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 14:42	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 14:42	1
cis-1,2-Dichloroethene	**14.5**		1.00		ug/L			04/23/13 14:42	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 14:42	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 14:42	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 14:42	1
Dibromomethane	ND		1.00		ug/L			04/23/13 14:42	1
1,2-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 14:42	1
1,3-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 14:42	1
1,4-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 14:42	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 14:42	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 14:42	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 14:42	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 14:42	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 14:42	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 14:42	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 14:42	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 14:42	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 14:42	1
2-Hexanone	ND		10.0		ug/L			04/23/13 14:42	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 14:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 14:42	1
Naphthalene	ND		5.00		ug/L			04/23/13 14:42	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 14:42	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
Styrene	ND		1.00		ug/L			04/23/13 14:42	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 14:42	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Client Sample ID: M&A-116-041613
Date Collected: 04/16/13 10:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	*	1.00		ug/L			04/23/13 14:42	1
Toluene	ND		1.00		ug/L			04/23/13 14:42	1
trans-1,2-Dichloroethene	1.94		1.00		ug/L			04/23/13 14:42	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 14:42	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 14:42	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 14:42	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 14:42	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 14:42	1
Trichloroethene	16.9		1.00		ug/L			04/23/13 14:42	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 14:42	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 14:42	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 14:42	1
Vinyl chloride	ND		1.00		ug/L			04/23/13 14:42	1
Xylenes, Total	ND		3.00		ug/L			04/23/13 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/23/13 14:42*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/23/13 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/23/13 14:42*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/23/13 14:42*	*1*

Client Sample ID: M&A-122-041713
Date Collected: 04/17/13 08:30
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 15:10	1
Benzene	ND		1.00		ug/L			04/23/13 15:10	1
Bromobenzene	ND		1.00		ug/L			04/23/13 15:10	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 15:10	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 15:10	1
Bromoform	ND		1.00		ug/L			04/23/13 15:10	1
Bromomethane	ND		1.00		ug/L			04/23/13 15:10	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 15:10	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 15:10	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 15:10	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 15:10	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 15:10	1
Chloroethane	ND		1.00		ug/L			04/23/13 15:10	1
Chloroform	ND		1.00		ug/L			04/23/13 15:10	1
Chloromethane	ND		1.00		ug/L			04/23/13 15:10	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 15:10	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 15:10	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 15:10	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 15:10	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 15:10	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 15:10	1
Dibromomethane	ND		1.00		ug/L			04/23/13 15:10	1
1,2-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:10	1
1,3-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:10	1
1,4-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:10	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 15:10	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 15:10	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 15:10	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 15:10	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 15:10	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 15:10	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 15:10	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 15:10	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 15:10	1
2-Hexanone	ND		10.0		ug/L			04/23/13 15:10	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 15:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 15:10	1
Naphthalene	ND		5.00		ug/L			04/23/13 15:10	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 15:10	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
Styrene	ND		1.00		ug/L			04/23/13 15:10	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 15:10	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 15:10	1

Client Sample ID: M&A-122-041713
Date Collected: 04/17/13 08:30
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	*	1.00		ug/L			04/23/13 15:10	1
Toluene	ND		1.00		ug/L			04/23/13 15:10	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 15:10	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 15:10	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 15:10	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 15:10	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 15:10	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 15:10	1
Trichloroethene	1.00		1.00		ug/L			04/23/13 15:10	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 15:10	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 15:10	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 15:10	1
Vinyl chloride	ND		1.00		ug/L			04/23/13 15:10	1
Xylenes, Total	ND		3.00		ug/L			04/23/13 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/23/13 15:10*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/23/13 15:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/23/13 15:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/23/13 15:10*	*1*

Client Sample ID: M&A-126-041713
Date Collected: 04/17/13 10:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 15:38	1
Benzene	ND		1.00		ug/L			04/23/13 15:38	1
Bromobenzene	ND		1.00		ug/L			04/23/13 15:38	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 15:38	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 15:38	1
Bromoform	ND		1.00		ug/L			04/23/13 15:38	1
Bromomethane	ND		1.00		ug/L			04/23/13 15:38	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 15:38	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 15:38	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 15:38	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 15:38	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 15:38	1
Chloroethane	ND		1.00		ug/L			04/23/13 15:38	1
Chloroform	ND		1.00		ug/L			04/23/13 15:38	1
Chloromethane	ND		1.00		ug/L			04/23/13 15:38	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 15:38	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 15:38	1
cis-1,2-Dichloroethene	**4.16**		1.00		ug/L			04/23/13 15:38	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 15:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 15:38	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 15:38	1
Dibromomethane	ND		1.00		ug/L			04/23/13 15:38	1
1,2-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:38	1
1,3-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:38	1
1,4-Dichlorobenzene	ND	*	1.00		ug/L			04/23/13 15:38	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 15:38	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 15:38	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 15:38	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 15:38	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 15:38	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 15:38	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 15:38	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 15:38	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 15:38	1
2-Hexanone	ND		10.0		ug/L			04/23/13 15:38	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 15:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 15:38	1
Naphthalene	ND		5.00		ug/L			04/23/13 15:38	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 15:38	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
Styrene	ND		1.00		ug/L			04/23/13 15:38	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 15:38	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 15:38	1

Client Sample ID: M&A-126-041713
Date Collected: 04/17/13 10:45
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.52		1.00		ug/L			04/21/13 09:15	1
Toluene	ND		1.00		ug/L			04/23/13 15:38	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 15:38	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 15:38	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 15:38	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 15:38	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 15:38	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 15:38	1
Trichloroethene	**76.3**		1.00		ug/L			04/23/13 15:38	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 15:38	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 15:38	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 15:38	1
Vinyl chloride	ND		1.00		ug/L			04/23/13 15:38	1
Xylenes, Total	ND		3.00		ug/L			04/23/13 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/21/13 09:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/23/13 15:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/13 09:15*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/23/13 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/21/13 09:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/23/13 15:38*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/21/13 09:15*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/23/13 15:38*	*1*

Client Sample ID: Trip Blank
Date Collected: 04/16/13 00:01
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/21/13 05:34	1
Benzene	ND		1.00		ug/L			04/21/13 05:34	1
Bromobenzene	ND		1.00		ug/L			04/21/13 05:34	1
Bromochloromethane	ND		1.00		ug/L			04/21/13 05:34	1
Bromodichloromethane	ND		1.00		ug/L			04/21/13 05:34	1
Bromoform	ND		1.00		ug/L			04/21/13 05:34	1
Bromomethane	ND		1.00		ug/L			04/21/13 05:34	1
2-Butanone (MEK)	ND		50.0		ug/L			04/21/13 05:34	1
Carbon disulfide	ND		1.00		ug/L			04/21/13 05:34	1
Carbon tetrachloride	ND		1.00		ug/L			04/21/13 05:34	1
Chlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
Chlorodibromomethane	ND		1.00		ug/L			04/21/13 05:34	1
Chloroethane	ND		1.00		ug/L			04/21/13 05:34	1
Chloroform	ND		1.00		ug/L			04/21/13 05:34	1
Chloromethane	ND		1.00		ug/L			04/21/13 05:34	1
2-Chlorotoluene	ND		1.00		ug/L			04/21/13 05:34	1
4-Chlorotoluene	ND		1.00		ug/L			04/21/13 05:34	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/21/13 05:34	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 05:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/21/13 05:34	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/21/13 05:34	1
Dibromomethane	ND		1.00		ug/L			04/21/13 05:34	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/21/13 05:34	1
1,1-Dichloroethane	ND		1.00		ug/L			04/21/13 05:34	1
1,2-Dichloroethane	ND		1.00		ug/L			04/21/13 05:34	1
1,1-Dichloroethene	ND		1.00		ug/L			04/21/13 05:34	1
1,2-Dichloropropane	ND		1.00		ug/L			04/21/13 05:34	1
1,3-Dichloropropane	ND		1.00		ug/L			04/21/13 05:34	1
2,2-Dichloropropane	ND		1.00		ug/L			04/21/13 05:34	1
1,1-Dichloropropene	ND		1.00		ug/L			04/21/13 05:34	1
Ethylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
Hexachlorobutadiene	ND		2.00		ug/L			04/21/13 05:34	1
2-Hexanone	ND		10.0		ug/L			04/21/13 05:34	1
Isopropylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
Methylene Chloride	ND		5.00		ug/L			04/21/13 05:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/21/13 05:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/21/13 05:34	1
Naphthalene	ND		5.00		ug/L			04/21/13 05:34	1
n-Butylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
N-Propylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
p-Isopropyltoluene	ND		1.00		ug/L			04/21/13 05:34	1
sec-Butylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
Styrene	ND		1.00		ug/L			04/21/13 05:34	1
tert-Butylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 05:34	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 05:34	1

Client Sample ID: Trip Blank
Date Collected: 04/16/13 00:01
Date Received: 04/18/13 08:15

Lab Sample ID: 490-24661-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/21/13 05:34	1
Toluene	ND		1.00		ug/L			04/21/13 05:34	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/21/13 05:34	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 05:34	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/21/13 05:34	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/21/13 05:34	1
Trichloroethene	ND		1.00		ug/L			04/21/13 05:34	1
Trichlorofluoromethane	ND		1.00		ug/L			04/21/13 05:34	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/21/13 05:34	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/21/13 05:34	1
Vinyl chloride	ND		1.00		ug/L			04/21/13 05:34	1
Xylenes, Total	ND		3.00		ug/L			04/21/13 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/21/13 05:34*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/21/13 05:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/21/13 05:34*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/21/13 05:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-73901/7
Matrix: Water
Analysis Batch: 73901

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/21/13 04:39	1
Benzene	ND		1.00		ug/L			04/21/13 04:39	1
Bromobenzene	ND		1.00		ug/L			04/21/13 04:39	1
Bromochloromethane	ND		1.00		ug/L			04/21/13 04:39	1
Bromodichloromethane	ND		1.00		ug/L			04/21/13 04:39	1
Bromoform	ND		1.00		ug/L			04/21/13 04:39	1
Bromomethane	ND		1.00		ug/L			04/21/13 04:39	1
2-Butanone (MEK)	ND		50.0		ug/L			04/21/13 04:39	1
Carbon disulfide	ND		1.00		ug/L			04/21/13 04:39	1
Carbon tetrachloride	ND		1.00		ug/L			04/21/13 04:39	1
Chlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
Chlorodibromomethane	ND		1.00		ug/L			04/21/13 04:39	1
Chloroethane	ND		1.00		ug/L			04/21/13 04:39	1
Chloroform	ND		1.00		ug/L			04/21/13 04:39	1
Chloromethane	ND		1.00		ug/L			04/21/13 04:39	1
2-Chlorotoluene	ND		1.00		ug/L			04/21/13 04:39	1
4-Chlorotoluene	ND		1.00		ug/L			04/21/13 04:39	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/21/13 04:39	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 04:39	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/21/13 04:39	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/21/13 04:39	1
Dibromomethane	ND		1.00		ug/L			04/21/13 04:39	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/21/13 04:39	1
1,1-Dichloroethane	ND		1.00		ug/L			04/21/13 04:39	1
1,2-Dichloroethane	ND		1.00		ug/L			04/21/13 04:39	1
1,1-Dichloroethene	ND		1.00		ug/L			04/21/13 04:39	1
1,2-Dichloropropane	ND		1.00		ug/L			04/21/13 04:39	1
1,3-Dichloropropane	ND		1.00		ug/L			04/21/13 04:39	1
2,2-Dichloropropane	ND		1.00		ug/L			04/21/13 04:39	1
1,1-Dichloropropene	ND		1.00		ug/L			04/21/13 04:39	1
Ethylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
Hexachlorobutadiene	ND		2.00		ug/L			04/21/13 04:39	1
2-Hexanone	ND		10.0		ug/L			04/21/13 04:39	1
Isopropylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
Methylene Chloride	ND		5.00		ug/L			04/21/13 04:39	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/21/13 04:39	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/21/13 04:39	1
Naphthalene	ND		5.00		ug/L			04/21/13 04:39	1
n-Butylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
N-Propylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
p-Isopropyltoluene	ND		1.00		ug/L			04/21/13 04:39	1
sec-Butylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
Styrene	ND		1.00		ug/L			04/21/13 04:39	1
tert-Butylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 04:39	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-73901/7
Matrix: Water
Analysis Batch: 73901

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/21/13 04:39	1
Tetrachloroethene	ND		1.00		ug/L			04/21/13 04:39	1
Toluene	ND		1.00		ug/L			04/21/13 04:39	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/21/13 04:39	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/21/13 04:39	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/21/13 04:39	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/21/13 04:39	1
Trichloroethene	ND		1.00		ug/L			04/21/13 04:39	1
Trichlorofluoromethane	ND		1.00		ug/L			04/21/13 04:39	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/21/13 04:39	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/21/13 04:39	1
Vinyl chloride	ND		1.00		ug/L			04/21/13 04:39	1
Xylenes, Total	ND		3.00		ug/L			04/21/13 04:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/21/13 04:39*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/21/13 04:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/21/13 04:39*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/21/13 04:39*	*1*

Lab Sample ID: LCS 490-73901/3
Matrix: Water
Analysis Batch: 73901

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	264.2		ug/L		106	54 - 145
Benzene	50.0	56.34		ug/L		113	80 - 121
Bromobenzene	50.0	51.48		ug/L		103	68 - 130
Bromochloromethane	50.0	56.35		ug/L		113	78 - 129
Bromodichloromethane	50.0	58.90		ug/L		118	75 - 129
Bromoform	50.0	63.60		ug/L		127	46 - 145
Bromomethane	50.0	48.81		ug/L		98	41 - 150
2-Butanone (MEK)	250	283.3		ug/L		113	62 - 133
Carbon disulfide	50.0	50.62		ug/L		101	77 - 126
Carbon tetrachloride	50.0	62.21		ug/L		124	64 - 147
Chlorobenzene	50.0	55.63		ug/L		111	80 - 120
Chlorodibromomethane	50.0	58.99		ug/L		118	69 - 133
Chloroethane	50.0	49.07		ug/L		98	72 - 120
Chloroform	50.0	57.48		ug/L		115	73 - 129
Chloromethane	50.0	40.28		ug/L		81	12 - 150
2-Chlorotoluene	50.0	53.54		ug/L		107	75 - 126
4-Chlorotoluene	50.0	54.39		ug/L		109	75 - 130
cis-1,2-Dichloroethene	50.0	53.32		ug/L		107	76 - 125
cis-1,3-Dichloropropene	50.0	51.92		ug/L		104	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	55.15		ug/L		110	54 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-73901/3
Matrix: Water
Analysis Batch: 73901

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	50.0	54.89		ug/L		110	80 - 129
Dibromomethane	50.0	53.84		ug/L		108	71 - 125
1,2-Dichlorobenzene	50.0	59.77		ug/L		120	80 - 121
1,3-Dichlorobenzene	50.0	58.97		ug/L		118	80 - 122
1,4-Dichlorobenzene	50.0	60.00		ug/L		120	80 - 120
Dichlorodifluoromethane	50.0	46.81		ug/L		94	37 - 127
1,1-Dichloroethane	50.0	47.23		ug/L		94	78 - 125
1,2-Dichloroethane	50.0	54.08		ug/L		108	77 - 121
1,1-Dichloroethene	50.0	53.03		ug/L		106	79 - 124
1,2-Dichloropropane	50.0	48.51		ug/L		97	75 - 120
1,3-Dichloropropane	50.0	52.09		ug/L		104	80 - 125
2,2-Dichloropropane	50.0	66.33		ug/L		133	43 - 161
1,1-Dichloropropene	50.0	53.30		ug/L		107	80 - 122
Ethylbenzene	50.0	56.43		ug/L		113	80 - 130
Hexachlorobutadiene	50.0	60.54		ug/L		121	49 - 146
2-Hexanone	250	244.3		ug/L		98	60 - 142
Isopropylbenzene	50.0	56.13		ug/L		112	80 - 141
Methylene Chloride	50.0	58.61		ug/L		117	79 - 123
4-Methyl-2-pentanone (MIBK)	250	251.5		ug/L		101	60 - 137
Methyl tert-butyl ether	50.0	50.79		ug/L		102	72 - 133
Naphthalene	50.0	54.00		ug/L		108	62 - 138
n-Butylbenzene	50.0	57.29		ug/L		115	68 - 132
N-Propylbenzene	50.0	53.86		ug/L		108	75 - 129
p-Isopropyltoluene	50.0	54.57		ug/L		109	75 - 128
sec-Butylbenzene	50.0	56.13		ug/L		112	76 - 128
Styrene	50.0	57.41		ug/L		115	80 - 127
tert-Butylbenzene	50.0	54.53		ug/L		109	76 - 126
1,1,1,2-Tetrachloroethane	50.0	56.77		ug/L		114	74 - 135
1,1,2,2-Tetrachloroethane	50.0	58.22		ug/L		116	69 - 131
Tetrachloroethene	50.0	59.70		ug/L		119	80 - 126
Toluene	50.0	56.15		ug/L		112	80 - 126
trans-1,2-Dichloroethene	50.0	53.42		ug/L		107	79 - 126
trans-1,3-Dichloropropene	50.0	51.25		ug/L		102	63 - 134
1,2,3-Trichlorobenzene	50.0	59.47		ug/L		119	62 - 133
1,2,4-Trichlorobenzene	50.0	57.70		ug/L		115	63 - 133
1,1,1-Trichloroethane	50.0	58.92		ug/L		118	78 - 135
1,1,2-Trichloroethane	50.0	51.71		ug/L		103	80 - 124
Trichloroethene	50.0	54.78		ug/L		110	80 - 123
Trichlorofluoromethane	50.0	41.71		ug/L		83	65 - 124
1,2,3-Trichloropropane	50.0	53.24		ug/L		106	70 - 131
1,2,4-Trimethylbenzene	50.0	54.30		ug/L		109	77 - 126
1,3,5-Trimethylbenzene	50.0	54.67		ug/L		109	77 - 127
Vinyl chloride	50.0	50.19		ug/L		100	68 - 120
Xylenes, Total	150	169.0		ug/L		113	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-73901/3
Matrix: Water
Analysis Batch: 73901

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 490-73901/4
Matrix: Water
Analysis Batch: 73901

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	273.6		ug/L		109	54 - 145	3	21
Benzene	50.0	56.01		ug/L		112	80 - 121	1	17
Bromobenzene	50.0	51.45		ug/L		103	68 - 130	0	20
Bromochloromethane	50.0	55.76		ug/L		112	78 - 129	1	17
Bromodichloromethane	50.0	59.59		ug/L		119	75 - 129	1	18
Bromoform	50.0	64.75		ug/L		130	46 - 145	2	16
Bromomethane	50.0	49.03		ug/L		98	41 - 150	0	50
2-Butanone (MEK)	250	285.1		ug/L		114	62 - 133	1	19
Carbon disulfide	50.0	51.14		ug/L		102	77 - 126	1	21
Carbon tetrachloride	50.0	61.72		ug/L		123	64 - 147	1	19
Chlorobenzene	50.0	55.93		ug/L		112	80 - 120	1	14
Chlorodibromomethane	50.0	60.57		ug/L		121	69 - 133	3	15
Chloroethane	50.0	49.86		ug/L		100	72 - 120	2	20
Chloroform	50.0	57.02		ug/L		114	73 - 129	1	18
Chloromethane	50.0	40.20		ug/L		80	12 - 150	0	31
2-Chlorotoluene	50.0	53.39		ug/L		107	75 - 126	0	17
4-Chlorotoluene	50.0	53.91		ug/L		108	75 - 130	1	18
cis-1,2-Dichloroethene	50.0	53.08		ug/L		106	76 - 125	0	17
cis-1,3-Dichloropropene	50.0	52.65		ug/L		105	74 - 140	1	15
1,2-Dibromo-3-Chloropropane	50.0	54.86		ug/L		110	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	55.48		ug/L		111	80 - 129	1	15
Dibromomethane	50.0	54.18		ug/L		108	71 - 125	1	16
1,2-Dichlorobenzene	50.0	59.13		ug/L		118	80 - 121	1	15
1,3-Dichlorobenzene	50.0	59.02		ug/L		118	80 - 122	0	15
1,4-Dichlorobenzene	50.0	60.13		ug/L		120	80 - 120	0	15
Dichlorodifluoromethane	50.0	49.43		ug/L		99	37 - 127	5	18
1,1-Dichloroethane	50.0	54.00		ug/L		108	78 - 125	13	17
1,2-Dichloroethane	50.0	55.33		ug/L		111	77 - 121	2	17
1,1-Dichloroethene	50.0	57.72		ug/L		115	79 - 124	8	17
1,2-Dichloropropane	50.0	48.96		ug/L		98	75 - 120	1	17
1,3-Dichloropropane	50.0	52.54		ug/L		105	80 - 125	1	14
2,2-Dichloropropane	50.0	66.47		ug/L		133	43 - 161	0	18
1,1-Dichloropropene	50.0	55.06		ug/L		110	80 - 122	3	17
Ethylbenzene	50.0	57.08		ug/L		114	80 - 130	1	15
Hexachlorobutadiene	50.0	62.53		ug/L		125	49 - 146	3	23
2-Hexanone	250	253.8		ug/L		102	60 - 142	4	15
Isopropylbenzene	50.0	56.83		ug/L		114	80 - 141	1	16
Methylene Chloride	50.0	59.60		ug/L		119	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	256.3		ug/L		103	60 - 137	2	17
Methyl tert-butyl ether	50.0	51.40		ug/L		103	72 - 133	1	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-73901/4
Matrix: Water
Analysis Batch: 73901

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	50.0	54.72		ug/L		109	62 - 138	1	26
n-Butylbenzene	50.0	57.66		ug/L		115	68 - 132	1	18
N-Propylbenzene	50.0	53.99		ug/L		108	75 - 129	0	17
p-Isopropyltoluene	50.0	54.89		ug/L		110	75 - 128	1	16
sec-Butylbenzene	50.0	56.39		ug/L		113	76 - 128	0	16
Styrene	50.0	58.22		ug/L		116	80 - 127	1	24
tert-Butylbenzene	50.0	54.03		ug/L		108	76 - 126	1	16
1,1,1,2-Tetrachloroethane	50.0	57.38		ug/L		115	74 - 135	1	16
1,1,2,2-Tetrachloroethane	50.0	57.27		ug/L		115	69 - 131	2	20
Tetrachloroethene	50.0	61.43		ug/L		123	80 - 126	3	16
Toluene	50.0	56.92		ug/L		114	80 - 126	1	15
trans-1,2-Dichloroethene	50.0	52.81		ug/L		106	79 - 126	1	16
trans-1,3-Dichloropropene	50.0	52.55		ug/L		105	63 - 134	3	14
1,2,3-Trichlorobenzene	50.0	59.57		ug/L		119	62 - 133	0	25
1,2,4-Trichlorobenzene	50.0	58.46		ug/L		117	63 - 133	1	19
1,1,1-Trichloroethane	50.0	58.89		ug/L		118	78 - 135	0	17
1,1,2-Trichloroethane	50.0	52.17		ug/L		104	80 - 124	1	15
Trichloroethene	50.0	56.08		ug/L		112	80 - 123	2	17
Trichlorofluoromethane	50.0	43.27		ug/L		87	65 - 124	4	18
1,2,3-Trichloropropane	50.0	53.24		ug/L		106	70 - 131	0	19
1,2,4-Trimethylbenzene	50.0	53.49		ug/L		107	77 - 126	2	16
1,3,5-Trimethylbenzene	50.0	54.09		ug/L		108	77 - 127	1	17
Vinyl chloride	50.0	50.55		ug/L		101	68 - 120	1	17
Xylenes, Total	150	170.7		ug/L		114	80 - 132	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 490-74248/7
Matrix: Water
Analysis Batch: 74248

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 10:33	1
Benzene	ND		1.00		ug/L			04/23/13 10:33	1
Bromobenzene	ND		1.00		ug/L			04/23/13 10:33	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 10:33	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 10:33	1
Bromoform	ND		1.00		ug/L			04/23/13 10:33	1
Bromomethane	ND		1.00		ug/L			04/23/13 10:33	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 10:33	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 10:33	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 10:33	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 10:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-74248/7
Matrix: Water
Analysis Batch: 74248

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.00		ug/L			04/23/13 10:33	1
Chloroform	ND		1.00		ug/L			04/23/13 10:33	1
Chloromethane	ND		1.00		ug/L			04/23/13 10:33	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 10:33	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 10:33	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 10:33	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 10:33	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 10:33	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 10:33	1
Dibromomethane	ND		1.00		ug/L			04/23/13 10:33	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 10:33	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 10:33	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 10:33	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 10:33	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 10:33	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 10:33	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 10:33	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 10:33	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 10:33	1
2-Hexanone	ND		10.0		ug/L			04/23/13 10:33	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 10:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 10:33	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 10:33	1
Naphthalene	ND		5.00		ug/L			04/23/13 10:33	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 10:33	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
Styrene	ND		1.00		ug/L			04/23/13 10:33	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 10:33	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 10:33	1
Tetrachloroethene	ND		1.00		ug/L			04/23/13 10:33	1
Toluene	ND		1.00		ug/L			04/23/13 10:33	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 10:33	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 10:33	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 10:33	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 10:33	1
Trichloroethene	ND		1.00		ug/L			04/23/13 10:33	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 10:33	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 10:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-74248/7
Matrix: Water
Analysis Batch: 74248

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 10:33	1
Vinyl chloride	ND		1.00		ug/L			04/23/13 10:33	1
Xylenes, Total	ND		3.00		ug/L			04/23/13 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/23/13 10:33*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/23/13 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/23/13 10:33*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/23/13 10:33*	*1*

Lab Sample ID: LCS 490-74248/3
Matrix: Water
Analysis Batch: 74248

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	314.4		ug/L		126	54 - 145
Benzene	50.0	56.49		ug/L		113	80 - 121
Bromobenzene	50.0	51.26		ug/L		103	68 - 130
Bromochloromethane	50.0	57.11		ug/L		114	78 - 129
Bromodichloromethane	50.0	60.76		ug/L		122	75 - 129
Bromoform	50.0	67.21		ug/L		134	46 - 145
Bromomethane	50.0	50.72		ug/L		101	41 - 150
2-Butanone (MEK)	250	309.3		ug/L		124	62 - 133
Carbon disulfide	50.0	51.20		ug/L		102	77 - 126
Carbon tetrachloride	50.0	61.40		ug/L		123	64 - 147
Chlorobenzene	50.0	57.14		ug/L		114	80 - 120
Chlorodibromomethane	50.0	62.03		ug/L		124	69 - 133
Chloroethane	50.0	48.81		ug/L		98	72 - 120
Chloroform	50.0	56.79		ug/L		114	73 - 129
Chloromethane	50.0	39.92		ug/L		80	12 - 150
2-Chlorotoluene	50.0	54.48		ug/L		109	75 - 126
4-Chlorotoluene	50.0	55.13		ug/L		110	75 - 130
cis-1,2-Dichloroethene	50.0	54.26		ug/L		109	76 - 125
cis-1,3-Dichloropropene	50.0	55.18		ug/L		110	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	57.59		ug/L		115	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.82		ug/L		114	80 - 129
Dibromomethane	50.0	54.60		ug/L		109	71 - 125
1,2-Dichlorobenzene	50.0	60.06		ug/L		120	80 - 121
1,3-Dichlorobenzene	50.0	59.46		ug/L		119	80 - 122
1,4-Dichlorobenzene	50.0	60.80	*	ug/L		122	80 - 120
Dichlorodifluoromethane	50.0	46.06		ug/L		92	37 - 127
1,1-Dichloroethane	50.0	53.06		ug/L		106	78 - 125
1,2-Dichloroethane	50.0	54.61		ug/L		109	77 - 121
1,1-Dichloroethene	50.0	57.02		ug/L		114	79 - 124
1,2-Dichloropropane	50.0	49.66		ug/L		99	75 - 120
1,3-Dichloropropane	50.0	53.59		ug/L		107	80 - 125
2,2-Dichloropropane	50.0	76.90		ug/L		154	43 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-74248/3
Matrix: Water
Analysis Batch: 74248

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	55.32		ug/L		111	80 - 122
Ethylbenzene	50.0	57.76		ug/L		116	80 - 130
Hexachlorobutadiene	50.0	61.28		ug/L		123	49 - 146
2-Hexanone	250	262.9		ug/L		105	60 - 142
Isopropylbenzene	50.0	58.55		ug/L		117	80 - 141
Methylene Chloride	50.0	59.91		ug/L		120	79 - 123
4-Methyl-2-pentanone (MIBK)	250	267.6		ug/L		107	60 - 137
Methyl tert-butyl ether	50.0	53.06		ug/L		106	72 - 133
Naphthalene	50.0	55.27		ug/L		111	62 - 138
n-Butylbenzene	50.0	58.58		ug/L		117	68 - 132
N-Propylbenzene	50.0	54.66		ug/L		109	75 - 129
p-Isopropyltoluene	50.0	55.92		ug/L		112	75 - 128
sec-Butylbenzene	50.0	57.41		ug/L		115	76 - 128
Styrene	50.0	59.11		ug/L		118	80 - 127
tert-Butylbenzene	50.0	55.30		ug/L		111	76 - 126
1,1,1,2-Tetrachloroethane	50.0	58.59		ug/L		117	74 - 135
1,1,2,2-Tetrachloroethane	50.0	58.94		ug/L		118	69 - 131
Tetrachloroethene	50.0	62.04		ug/L		124	80 - 126
Toluene	50.0	57.62		ug/L		115	80 - 126
trans-1,2-Dichloroethene	50.0	54.49		ug/L		109	79 - 126
trans-1,3-Dichloropropene	50.0	54.95		ug/L		110	63 - 134
1,2,3-Trichlorobenzene	50.0	58.99		ug/L		118	62 - 133
1,2,4-Trichlorobenzene	50.0	58.30		ug/L		117	63 - 133
1,1,1-Trichloroethane	50.0	59.47		ug/L		119	78 - 135
1,1,2-Trichloroethane	50.0	53.83		ug/L		108	80 - 124
Trichloroethene	50.0	56.97		ug/L		114	80 - 123
Trichlorofluoromethane	50.0	42.86		ug/L		86	65 - 124
1,2,3-Trichloropropane	50.0	52.99		ug/L		106	70 - 131
1,2,4-Trimethylbenzene	50.0	54.33		ug/L		109	77 - 126
1,3,5-Trimethylbenzene	50.0	55.15		ug/L		110	77 - 127
Vinyl chloride	50.0	49.47		ug/L		99	68 - 120
Xylenes, Total	150	174.2		ug/L		116	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-74248/4
Matrix: Water
Analysis Batch: 74248

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	305.1		ug/L		122	54 - 145	3	21
Benzene	50.0	57.99		ug/L		116	80 - 121	3	17
Bromobenzene	50.0	52.89		ug/L		106	68 - 130	3	20
Bromochloromethane	50.0	57.62		ug/L		115	78 - 129	1	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-74248/4
Matrix: Water
Analysis Batch: 74248

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	50.0	62.07		ug/L		124	75 - 129	2	18
Bromoform	50.0	70.45		ug/L		141	46 - 145	5	16
Bromomethane	50.0	59.51		ug/L		119	41 - 150	16	50
2-Butanone (MEK)	250	305.5		ug/L		122	62 - 133	1	19
Carbon disulfide	50.0	51.61		ug/L		103	77 - 126	1	21
Carbon tetrachloride	50.0	62.43		ug/L		125	64 - 147	2	19
Chlorobenzene	50.0	58.66		ug/L		117	80 - 120	3	14
Chlorodibromomethane	50.0	64.41		ug/L		129	69 - 133	4	15
Chloroethane	50.0	49.16		ug/L		98	72 - 120	1	20
Chloroform	50.0	58.98		ug/L		118	73 - 129	4	18
Chloromethane	50.0	39.75		ug/L		80	12 - 150	0	31
2-Chlorotoluene	50.0	56.43		ug/L		113	75 - 126	4	17
4-Chlorotoluene	50.0	56.47		ug/L		113	75 - 130	2	18
cis-1,2-Dichloroethene	50.0	55.22		ug/L		110	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	56.91		ug/L		114	74 - 140	3	15
1,2-Dibromo-3-Chloropropane	50.0	59.36		ug/L		119	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	58.03		ug/L		116	80 - 129	2	15
Dibromomethane	50.0	55.84		ug/L		112	71 - 125	2	16
1,2-Dichlorobenzene	50.0	61.98	*	ug/L		124	80 - 121	3	15
1,3-Dichlorobenzene	50.0	61.68	*	ug/L		123	80 - 122	4	15
1,4-Dichlorobenzene	50.0	62.22	*	ug/L		124	80 - 120	2	15
Dichlorodifluoromethane	50.0	46.56		ug/L		93	37 - 127	1	18
1,1-Dichloroethane	50.0	56.16		ug/L		112	78 - 125	6	17
1,2-Dichloroethane	50.0	55.37		ug/L		111	77 - 121	1	17
1,1-Dichloroethene	50.0	55.89		ug/L		112	79 - 124	2	17
1,2-Dichloropropane	50.0	50.58		ug/L		101	75 - 120	2	17
1,3-Dichloropropane	50.0	54.39		ug/L		109	80 - 125	1	14
2,2-Dichloropropane	50.0	77.31		ug/L		155	43 - 161	1	18
1,1-Dichloropropene	50.0	55.56		ug/L		111	80 - 122	0	17
Ethylbenzene	50.0	59.26		ug/L		119	80 - 130	3	15
Hexachlorobutadiene	50.0	65.27		ug/L		131	49 - 146	6	23
2-Hexanone	250	265.9		ug/L		106	60 - 142	1	15
Isopropylbenzene	50.0	59.77		ug/L		120	80 - 141	2	16
Methylene Chloride	50.0	60.85		ug/L		122	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	273.2		ug/L		109	60 - 137	2	17
Methyl tert-butyl ether	50.0	55.62		ug/L		111	72 - 133	5	16
Naphthalene	50.0	57.90		ug/L		116	62 - 138	5	26
n-Butylbenzene	50.0	60.93		ug/L		122	68 - 132	4	18
N-Propylbenzene	50.0	55.92		ug/L		112	75 - 129	2	17
p-Isopropyltoluene	50.0	57.64		ug/L		115	75 - 128	3	16
sec-Butylbenzene	50.0	58.98		ug/L		118	76 - 128	3	16
Styrene	50.0	60.94		ug/L		122	80 - 127	3	24
tert-Butylbenzene	50.0	57.19		ug/L		114	76 - 126	3	16
1,1,1,2-Tetrachloroethane	50.0	60.47		ug/L		121	74 - 135	3	16
1,1,2,2-Tetrachloroethane	50.0	60.43		ug/L		121	69 - 131	3	20
Tetrachloroethene	50.0	63.95	*	ug/L		128	80 - 126	3	16
Toluene	50.0	58.89		ug/L		118	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	54.87		ug/L		110	79 - 126	1	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-74248/4
Matrix: Water
Analysis Batch: 74248

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	50.0	55.58		ug/L		111	63 - 134	1	14
1,2,3-Trichlorobenzene	50.0	64.16		ug/L		128	62 - 133	8	25
1,2,4-Trichlorobenzene	50.0	61.56		ug/L		123	63 - 133	5	19
1,1,1-Trichloroethane	50.0	60.18		ug/L		120	78 - 135	1	17
1,1,2-Trichloroethane	50.0	54.76		ug/L		110	80 - 124	2	15
Trichloroethene	50.0	57.79		ug/L		116	80 - 123	1	17
Trichlorofluoromethane	50.0	41.79		ug/L		84	65 - 124	3	18
1,2,3-Trichloropropane	50.0	54.75		ug/L		110	70 - 131	3	19
1,2,4-Trimethylbenzene	50.0	56.17		ug/L		112	77 - 126	3	16
1,3,5-Trimethylbenzene	50.0	56.19		ug/L		112	77 - 127	2	17
Vinyl chloride	50.0	51.07		ug/L		102	68 - 120	3	17
Xylenes, Total	150	177.9		ug/L		119	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 490-74249/7
Matrix: Water
Analysis Batch: 74249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50.0		ug/L			04/23/13 22:05	1
Benzene	ND		1.00		ug/L			04/23/13 22:05	1
Bromobenzene	ND		1.00		ug/L			04/23/13 22:05	1
Bromochloromethane	ND		1.00		ug/L			04/23/13 22:05	1
Bromodichloromethane	ND		1.00		ug/L			04/23/13 22:05	1
Bromoform	ND		1.00		ug/L			04/23/13 22:05	1
Bromomethane	ND		1.00		ug/L			04/23/13 22:05	1
2-Butanone (MEK)	ND		50.0		ug/L			04/23/13 22:05	1
Carbon disulfide	ND		1.00		ug/L			04/23/13 22:05	1
Carbon tetrachloride	ND		1.00		ug/L			04/23/13 22:05	1
Chlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1
Chlorodibromomethane	ND		1.00		ug/L			04/23/13 22:05	1
Chloroethane	ND		1.00		ug/L			04/23/13 22:05	1
Chloroform	ND		1.00		ug/L			04/23/13 22:05	1
Chloromethane	ND		1.00		ug/L			04/23/13 22:05	1
2-Chlorotoluene	ND		1.00		ug/L			04/23/13 22:05	1
4-Chlorotoluene	ND		1.00		ug/L			04/23/13 22:05	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 22:05	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 22:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/23/13 22:05	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/23/13 22:05	1
Dibromomethane	ND		1.00		ug/L			04/23/13 22:05	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-74249/7
Matrix: Water
Analysis Batch: 74249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/23/13 22:05	1
1,1-Dichloroethane	ND		1.00		ug/L			04/23/13 22:05	1
1,2-Dichloroethane	ND		1.00		ug/L			04/23/13 22:05	1
1,1-Dichloroethene	ND		1.00		ug/L			04/23/13 22:05	1
1,2-Dichloropropane	ND		1.00		ug/L			04/23/13 22:05	1
1,3-Dichloropropane	ND		1.00		ug/L			04/23/13 22:05	1
2,2-Dichloropropane	ND		1.00		ug/L			04/23/13 22:05	1
1,1-Dichloropropene	ND		1.00		ug/L			04/23/13 22:05	1
Ethylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
Hexachlorobutadiene	ND		2.00		ug/L			04/23/13 22:05	1
2-Hexanone	ND		10.0		ug/L			04/23/13 22:05	1
Isopropylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
Methylene Chloride	ND		5.00		ug/L			04/23/13 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/23/13 22:05	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/23/13 22:05	1
Naphthalene	ND		5.00		ug/L			04/23/13 22:05	1
n-Butylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
N-Propylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
p-Isopropyltoluene	ND		1.00		ug/L			04/23/13 22:05	1
sec-Butylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
Styrene	ND		1.00		ug/L			04/23/13 22:05	1
tert-Butylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 22:05	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/23/13 22:05	1
Tetrachloroethene	ND		1.00		ug/L			04/23/13 22:05	1
Toluene	ND		1.00		ug/L			04/23/13 22:05	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/23/13 22:05	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/23/13 22:05	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/23/13 22:05	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/23/13 22:05	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/23/13 22:05	1
Trichloroethene	ND		1.00		ug/L			04/23/13 22:05	1
Trichlorofluoromethane	ND		1.00		ug/L			04/23/13 22:05	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/23/13 22:05	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/23/13 22:05	1
Vinyl chloride	ND		1.00		ug/L			04/23/13 22:05	1
Xylenes, Total	ND		3.00		ug/L			04/23/13 22:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/23/13 22:05*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/23/13 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/23/13 22:05*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/23/13 22:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-74249/3
Matrix: Water
Analysis Batch: 74249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	333.2		ug/L		133	54 - 145
Benzene	50.0	54.51		ug/L		109	80 - 121
Bromobenzene	50.0	51.08		ug/L		102	68 - 130
Bromochloromethane	50.0	55.90		ug/L		112	78 - 129
Bromodichloromethane	50.0	59.52		ug/L		119	75 - 129
Bromoform	50.0	67.14		ug/L		134	46 - 145
Bromomethane	50.0	55.11		ug/L		110	41 - 150
2-Butanone (MEK)	250	302.6		ug/L		121	62 - 133
Carbon disulfide	50.0	49.81		ug/L		100	77 - 126
Carbon tetrachloride	50.0	59.74		ug/L		119	64 - 147
Chlorobenzene	50.0	54.09		ug/L		108	80 - 120
Chlorodibromomethane	50.0	60.68		ug/L		121	69 - 133
Chloroethane	50.0	46.51		ug/L		93	72 - 120
Chloroform	50.0	56.41		ug/L		113	73 - 129
Chloromethane	50.0	37.58		ug/L		75	12 - 150
2-Chlorotoluene	50.0	52.59		ug/L		105	75 - 126
4-Chlorotoluene	50.0	54.06		ug/L		108	75 - 130
cis-1,2-Dichloroethene	50.0	52.46		ug/L		105	76 - 125
cis-1,3-Dichloropropene	50.0	52.75		ug/L		105	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	59.56		ug/L		119	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.86		ug/L		114	80 - 129
Dibromomethane	50.0	55.79		ug/L		112	71 - 125
1,2-Dichlorobenzene	50.0	60.64		ug/L		121	80 - 121
1,3-Dichlorobenzene	50.0	59.11		ug/L		118	80 - 122
1,4-Dichlorobenzene	50.0	60.09		ug/L		120	80 - 120
Dichlorodifluoromethane	50.0	48.80		ug/L		98	37 - 127
1,1-Dichloroethane	50.0	52.77		ug/L		106	78 - 125
1,2-Dichloroethane	50.0	55.66		ug/L		111	77 - 121
1,1-Dichloroethene	50.0	51.99		ug/L		104	79 - 124
1,2-Dichloropropane	50.0	48.37		ug/L		97	75 - 120
1,3-Dichloropropane	50.0	53.90		ug/L		108	80 - 125
2,2-Dichloropropane	50.0	69.00		ug/L		138	43 - 161
1,1-Dichloropropene	50.0	52.47		ug/L		105	80 - 122
Ethylbenzene	50.0	55.39		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	62.53		ug/L		125	49 - 146
2-Hexanone	250	271.9		ug/L		109	60 - 142
Isopropylbenzene	50.0	55.39		ug/L		111	80 - 141
Methylene Chloride	50.0	58.29		ug/L		117	79 - 123
4-Methyl-2-pentanone (MIBK)	250	272.4		ug/L		109	60 - 137
Methyl tert-butyl ether	50.0	53.86		ug/L		108	72 - 133
Naphthalene	50.0	57.48		ug/L		115	62 - 138
n-Butylbenzene	50.0	58.12		ug/L		116	68 - 132
N-Propylbenzene	50.0	53.43		ug/L		107	75 - 129
p-Isopropyltoluene	50.0	54.45		ug/L		109	75 - 128
sec-Butylbenzene	50.0	56.11		ug/L		112	76 - 128
Styrene	50.0	56.76		ug/L		114	80 - 127
tert-Butylbenzene	50.0	53.83		ug/L		108	76 - 126
1,1,1,2-Tetrachloroethane	50.0	56.49		ug/L		113	74 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-74249/3
Matrix: Water
Analysis Batch: 74249

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	61.02		ug/L		122	69 - 131
Tetrachloroethene	50.0	58.20		ug/L		116	80 - 126
Toluene	50.0	55.41		ug/L		111	80 - 126
trans-1,2-Dichloroethene	50.0	52.05		ug/L		104	79 - 126
trans-1,3-Dichloropropene	50.0	53.54		ug/L		107	63 - 134
1,2,3-Trichlorobenzene	50.0	61.26		ug/L		123	62 - 133
1,2,4-Trichlorobenzene	50.0	60.03		ug/L		120	63 - 133
1,1,1-Trichloroethane	50.0	57.58		ug/L		115	78 - 135
1,1,2-Trichloroethane	50.0	54.05		ug/L		108	80 - 124
Trichloroethene	50.0	54.10		ug/L		108	80 - 123
Trichlorofluoromethane	50.0	41.72		ug/L		83	65 - 124
1,2,3-Trichloropropane	50.0	55.12		ug/L		110	70 - 131
1,2,4-Trimethylbenzene	50.0	53.20		ug/L		106	77 - 126
1,3,5-Trimethylbenzene	50.0	53.75		ug/L		107	77 - 127
Vinyl chloride	50.0	49.63		ug/L		99	68 - 120
Xylenes, Total	150	166.5		ug/L		111	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-74249/4
Matrix: Water
Analysis Batch: 74249

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	326.6		ug/L		131	54 - 145	2	21
Benzene	50.0	55.33		ug/L		111	80 - 121	2	17
Bromobenzene	50.0	52.10		ug/L		104	68 - 130	2	20
Bromochloromethane	50.0	55.99		ug/L		112	78 - 129	0	17
Bromodichloromethane	50.0	59.76		ug/L		120	75 - 129	0	18
Bromoform	50.0	67.31		ug/L		135	46 - 145	0	16
Bromomethane	50.0	56.10		ug/L		112	41 - 150	2	50
2-Butanone (MEK)	250	310.3		ug/L		124	62 - 133	3	19
Carbon disulfide	50.0	49.95		ug/L		100	77 - 126	0	21
Carbon tetrachloride	50.0	60.21		ug/L		120	64 - 147	1	19
Chlorobenzene	50.0	55.27		ug/L		111	80 - 120	2	14
Chlorodibromomethane	50.0	61.59		ug/L		123	69 - 133	1	15
Chloroethane	50.0	47.00		ug/L		94	72 - 120	1	20
Chloroform	50.0	56.98		ug/L		114	73 - 129	1	18
Chloromethane	50.0	36.93		ug/L		74	12 - 150	2	31
2-Chlorotoluene	50.0	53.88		ug/L		108	75 - 126	2	17
4-Chlorotoluene	50.0	54.26		ug/L		109	75 - 130	0	18
cis-1,2-Dichloroethene	50.0	52.61		ug/L		105	76 - 125	0	17
cis-1,3-Dichloropropene	50.0	53.33		ug/L		107	74 - 140	1	15
1,2-Dibromo-3-Chloropropane	50.0	59.30		ug/L		119	54 - 125	0	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-74249/4
Matrix: Water
Analysis Batch: 74249

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	50.0	57.30		ug/L		115	80 - 129	1	15
Dibromomethane	50.0	54.85		ug/L		110	71 - 125	2	16
1,2-Dichlorobenzene	50.0	60.57		ug/L		121	80 - 121	0	15
1,3-Dichlorobenzene	50.0	58.98		ug/L		118	80 - 122	0	15
1,4-Dichlorobenzene	50.0	60.72	*	ug/L		121	80 - 120	1	15
Dichlorodifluoromethane	50.0	47.76		ug/L		96	37 - 127	2	18
1,1-Dichloroethane	50.0	53.58		ug/L		107	78 - 125	2	17
1,2-Dichloroethane	50.0	56.19		ug/L		112	77 - 121	1	17
1,1-Dichloroethene	50.0	54.99		ug/L		110	79 - 124	6	17
1,2-Dichloropropane	50.0	48.76		ug/L		98	75 - 120	1	17
1,3-Dichloropropane	50.0	54.56		ug/L		109	80 - 125	1	14
2,2-Dichloropropane	50.0	69.30		ug/L		139	43 - 161	0	18
1,1-Dichloropropene	50.0	53.76		ug/L		108	80 - 122	2	17
Ethylbenzene	50.0	56.42		ug/L		113	80 - 130	2	15
Hexachlorobutadiene	50.0	62.76		ug/L		126	49 - 146	0	23
2-Hexanone	250	273.7		ug/L		109	60 - 142	1	15
Isopropylbenzene	50.0	57.06		ug/L		114	80 - 141	3	16
Methylene Chloride	50.0	59.21		ug/L		118	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	273.3		ug/L		109	60 - 137	0	17
Methyl tert-butyl ether	50.0	53.28		ug/L		107	72 - 133	1	16
Naphthalene	50.0	57.04		ug/L		114	62 - 138	1	26
n-Butylbenzene	50.0	58.31		ug/L		117	68 - 132	0	18
N-Propylbenzene	50.0	53.88		ug/L		108	75 - 129	1	17
p-Isopropyltoluene	50.0	54.71		ug/L		109	75 - 128	0	16
sec-Butylbenzene	50.0	56.44		ug/L		113	76 - 128	1	16
Styrene	50.0	57.88		ug/L		116	80 - 127	2	24
tert-Butylbenzene	50.0	54.38		ug/L		109	76 - 126	1	16
1,1,1,2-Tetrachloroethane	50.0	57.64		ug/L		115	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	60.24		ug/L		120	69 - 131	1	20
Tetrachloroethene	50.0	60.22		ug/L		120	80 - 126	3	16
Toluene	50.0	56.61		ug/L		113	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	53.11		ug/L		106	79 - 126	2	16
trans-1,3-Dichloropropene	50.0	53.07		ug/L		106	63 - 134	1	14
1,2,3-Trichlorobenzene	50.0	61.73		ug/L		123	62 - 133	1	25
1,2,4-Trichlorobenzene	50.0	60.44		ug/L		121	63 - 133	1	19
1,1,1-Trichloroethane	50.0	58.23		ug/L		116	78 - 135	1	17
1,1,2-Trichloroethane	50.0	54.42		ug/L		109	80 - 124	1	15
Trichloroethene	50.0	54.74		ug/L		109	80 - 123	1	17
Trichlorofluoromethane	50.0	41.96		ug/L		84	65 - 124	1	18
1,2,3-Trichloropropane	50.0	55.84		ug/L		112	70 - 131	1	19
1,2,4-Trimethylbenzene	50.0	53.50		ug/L		107	77 - 126	1	16
1,3,5-Trimethylbenzene	50.0	54.22		ug/L		108	77 - 127	1	17
Vinyl chloride	50.0	46.61		ug/L		93	68 - 120	6	17
Xylenes, Total	150	169.4		ug/L		113	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-74249/4
Matrix: Water
Analysis Batch: 74249

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

GC/MS VOA

Analysis Batch: 73901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24661-1	MCA-5-041713	Total/NA	Water	8260B	
490-24661-4	M&A-112-041713	Total/NA	Water	8260B	
490-24661-7	M&A-126-041713	Total/NA	Water	8260B	
490-24661-8	Trip Blank	Total/NA	Water	8260B	
LCS 490-73901/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-73901/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-73901/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 74248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24661-3	M&A-111-041713	Total/NA	Water	8260B	
490-24661-3	M&A-111-041713	Total/NA	Water	8260B	
490-24661-5	M&A-116-041613	Total/NA	Water	8260B	
490-24661-6	M&A-122-041713	Total/NA	Water	8260B	
490-24661-7	M&A-126-041713	Total/NA	Water	8260B	
LCS 490-74248/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-74248/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-74248/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 74249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24661-1	MCA-5-041713	Total/NA	Water	8260B	
490-24661-1	MCA-5-041713	Total/NA	Water	8260B	
490-24661-2	M&A-104-041613	Total/NA	Water	8260B	
490-24661-2	M&A-104-041613	Total/NA	Water	8260B	
490-24661-4	M&A-112-041713	Total/NA	Water	8260B	
490-24661-4	M&A-112-041713	Total/NA	Water	8260B	
LCS 490-74249/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-74249/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-74249/7	Method Blank	Total/NA	Water	8260B	

Client Sample ID: MCA-5-041713 — **Lab Sample ID: 490-24661-1**
Date Collected: 04/17/13 09:45 — Matrix: Water
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	73901	04/21/13 06:29	JM	TAL NSH
Total/NA	Analysis	8260B		100	74249	04/24/13 03:36	JM	TAL NSH
Total/NA	Analysis	8260B		1000	74249	04/24/13 04:04	JM	TAL NSH

Client Sample ID: M&A-104-041613 — **Lab Sample ID: 490-24661-2**
Date Collected: 04/16/13 14:40 — Matrix: Water
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	74249	04/24/13 05:27	JM	TAL NSH
Total/NA	Analysis	8260B		10000	74249	04/24/13 05:55	JM	TAL NSH

Client Sample ID: M&A-111-041713 — **Lab Sample ID: 490-24661-3**
Date Collected: 04/17/13 10:15 — Matrix: Water
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	74248	04/23/13 17:56	JM	TAL NSH
Total/NA	Analysis	8260B		10	74248	04/23/13 18:24	JM	TAL NSH

Client Sample ID: M&A-112-041713 — **Lab Sample ID: 490-24661-4**
Date Collected: 04/17/13 11:10 — Matrix: Water
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	73901	04/21/13 07:52	JM	TAL NSH
Total/NA	Analysis	8260B		10	74249	04/24/13 02:13	JM	TAL NSH
Total/NA	Analysis	8260B		100	74249	04/24/13 02:41	JM	TAL NSH

Client Sample ID: M&A-116-041613 — **Lab Sample ID: 490-24661-5**
Date Collected: 04/16/13 10:45 — Matrix: Water
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	74248	04/23/13 14:42	JM	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Client Sample ID: M&A-122-041713

Lab Sample ID: 490-24661-6
Matrix: Water

Date Collected: 04/17/13 08:30
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	74248	04/23/13 15:10	JM	TAL NSH

Client Sample ID: M&A-126-041713

Lab Sample ID: 490-24661-7
Matrix: Water

Date Collected: 04/17/13 10:45
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	73901	04/21/13 09:15	JM	TAL NSH
Total/NA	Analysis	8260B		1	74248	04/23/13 15:38	JM	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 490-24661-8
Matrix: Water

Date Collected: 04/16/13 00:01
Date Received: 04/18/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	73901	04/21/13 05:34	JM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-24661-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	05-31-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT

490-24661 Chain of Custody

Cooler Received/Opened On 4/18/13 @ 0815

1. Tracking # 1924 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 5.8 *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: one 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) DA

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) [signature]

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) [signature]

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) [signature]

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

21. Were there Non-Conformance Issues at login? YES...(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

4/25/2013

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: H Chaconas	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-9356-4217.1
Client Contact: Christopher Mabbett	Phone: 781 2756050	E-Mail: ken.hayes@testamericainc.com		Page: Page 1 of 2
Company: Mabbett & Associates, Inc.				Job #:
Address: 5 Alfred Circle	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Bedford	TAT Requested (days):			
State, Zip: MA, 01730				
Phone:	PO #: Purchase Order Requested			
Email: cmabbett@mabbett.com	WO #:			
Project Name: Bodycote-SemiAnnual Event	Project #: 49002697			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	X	X	
1 MCA-5-041713	4/17/13	0945	G	Water	N	N	X	3	
2 M+A-104-041613	4/16/13	1440	G	Water	N	N	X	3	
3 M+A-111-041713	4/17/13	1015	G	Water	N	N	X	3	
4 M+A-112-041713	4/17/13	1110	G	Water	N	N	X	3	
6 M+A-116-041613	4/16/13	1045	G	Water	N	N	X	3	
5 M+A-122-041713	4/17/13	0830	G	Water	N	N	X	3	
7 M+A-126-041713	4/17/13	1045	G	Water	N	N	X	3	
8 TRIP BLANK	-	-	G	Water	N	N	X	2	
				Water					
				Water					
				Water					

Loc: 490
24661

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/17/13 1700		[signature]	4-18-13 08:15	JAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

4/25/2013

Login Sample Receipt Checklist

Client: Mabbett & Associates, Inc.

Job Number: 490-24661-1

Login Number: 24661
List Number: 1
Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-38586-1
TestAmerica SDG: 1998002.326, Task 004 HTB
Client Project/Site: Bodycote-SemiAnnual Event
Revision: 2

For:
Mabbett & Associates, Inc.
5 Alfred Circle
Bedford, Massachusetts 01730

Attn: Christopher Mabbett

Authorized for release by:
12/24/2013 4:54:34 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-38586-1	TB-01-102313	Water	10/23/13 00:01	10/24/13 08:40
490-38586-2	MCA-5-102113	Water	10/21/13 15:00	10/24/13 08:40
490-38586-3	M&A-104-102113	Water	10/21/13 15:55	10/24/13 08:40
490-38586-4	M&A-111-102113	Water	10/21/13 17:55	10/24/13 08:40
490-38586-5	M&A-112-102113	Water	10/21/13 15:20	10/24/13 08:40
490-38586-6	M&A-115-102213	Water	10/22/13 09:15	10/24/13 08:40
490-38586-7	M&A-116-102213	Water	10/22/13 09:15	10/24/13 08:40
490-38586-8	M&A-122-102213	Water	10/22/13 13:55	10/24/13 08:40
490-38586-9	M&A-126-102213	Water	10/22/13 10:20	10/24/13 08:40

Job ID: 490-38586-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-38586-1

REVISED REPORT: Revised 12/24/13 to correct sample ID on 490-38586-9 from M&A-125-102113 to M&A-126-102113 per COC. This report replaces the one generated on 12/04/13 @ 1306.

Comments
No additional comments.

Receipt
The samples were received on 10/24/2013 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

GC/MS VOA
Method(s) 8260B: The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: M&A-9-102113 (490-38586-2). The sample(s) were not analyzed within the seven day hold time specified for unpreserved samples.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: M&A-104-102113 (490-38586-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117436 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 118086 were outside control limits. This is attributed to: abundance of target analytes at concentrations significantly higher than the spike concentration and matrix interferences.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 118088.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: TB-01-102313
Date Collected: 10/23/13 00:01
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/29/13 01:40	1
Benzene	ND		1.00		ug/L			10/29/13 01:40	1
Bromobenzene	ND		1.00		ug/L			10/29/13 01:40	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 01:40	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 01:40	1
Bromoform	ND		1.00		ug/L			10/29/13 01:40	1
Bromomethane	ND		1.00		ug/L			10/29/13 01:40	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 01:40	1
Carbon disulfide	ND		1.00		ug/L			10/29/13 01:40	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 01:40	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 01:40	1
Chloroethane	ND		1.00		ug/L			10/29/13 01:40	1
Chloroform	ND		1.00		ug/L			10/29/13 01:40	1
Chloromethane	ND		1.00		ug/L			10/29/13 01:40	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 01:40	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 01:40	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 01:40	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 01:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/29/13 01:40	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 01:40	1
Dibromomethane	ND		1.00		ug/L			10/29/13 01:40	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 01:40	1
1,1-Dichloroethane	ND		1.00		ug/L			10/29/13 01:40	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 01:40	1
1,1-Dichloroethene	ND		1.00		ug/L			10/29/13 01:40	1
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 01:40	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 01:40	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 01:40	1
1,1-Dichloropropene	ND		1.00		ug/L			10/29/13 01:40	1
Ethylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 01:40	1
2-Hexanone	ND		5.00		ug/L			10/29/13 01:40	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
Methylene Chloride	ND		5.00		ug/L			10/29/13 01:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/29/13 01:40	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 01:40	1
Naphthalene	ND		5.00		ug/L			10/29/13 01:40	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 01:40	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
Styrene	ND		1.00		ug/L			10/29/13 01:40	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:40	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:40	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: TB-01-102313
Date Collected: 10/23/13 00:01
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/29/13 01:40	1
Toluene	ND		1.00		ug/L			10/29/13 01:40	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 01:40	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 01:40	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 01:40	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 01:40	1
Trichloroethene	ND		1.00		ug/L			10/29/13 01:40	1
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 01:40	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/29/13 01:40	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/29/13 01:40	1
Vinyl chloride	ND		1.00		ug/L			10/29/13 01:40	1
Xylenes, Total	ND		2.00		ug/L			10/29/13 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/29/13 01:40*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/29/13 01:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*10/29/13 01:40*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/29/13 01:40*	*1*

Client Sample ID: MCA-5-102113
Date Collected: 10/21/13 15:00
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/29/13 05:49	1
Benzene	**1.19**		1.00		ug/L			10/29/13 05:49	1
Bromobenzene	ND		1.00		ug/L			10/29/13 05:49	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 05:49	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 05:49	1
Bromoform	ND		1.00		ug/L			10/29/13 05:49	1
Bromomethane	ND		1.00		ug/L			10/29/13 05:49	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 05:49	1
Carbon disulfide	ND		1.00		ug/L			10/29/13 05:49	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 05:49	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 05:49	1
Chloroethane	ND		1.00		ug/L			10/29/13 05:49	1
Chloroform	ND		1.00		ug/L			10/29/13 05:49	1
Chloromethane	ND		1.00		ug/L			10/29/13 05:49	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 05:49	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 05:49	1
cis-1,2-Dichloroethene	**50100**		1000		ug/L			10/30/13 23:40	1000
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 05:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/29/13 05:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 05:49	1
Dibromomethane	ND		1.00		ug/L			10/29/13 05:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 05:49	1
1,1-Dichloroethane	**4.79**		1.00		ug/L			10/29/13 05:49	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 05:49	1
1,1-Dichloroethene	**625**		100		ug/L			10/30/13 23:11	100
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 05:49	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 05:49	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 05:49	1
1,1-Dichloropropene	ND		1.00		ug/L			10/29/13 05:49	1
Ethylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 05:49	1
2-Hexanone	ND		5.00		ug/L			10/29/13 05:49	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
Methylene Chloride	ND		5.00		ug/L			10/29/13 05:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/29/13 05:49	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 05:49	1
Naphthalene	ND		5.00		ug/L			10/29/13 05:49	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 05:49	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
Styrene	ND		1.00		ug/L			10/29/13 05:49	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 05:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 05:49	1

Client Sample ID: MCA-5-102113
Date Collected: 10/21/13 15:00
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	59.6		1.00		ug/L			10/29/13 05:49	1
Toluene	15.6		1.00		ug/L			10/29/13 05:49	1
trans-1,2-Dichloroethene	1260		100		ug/L			10/30/13 23:11	100
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 05:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 05:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 05:49	1
Trichloroethene	52100		1000		ug/L			10/30/13 23:40	1000
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 05:49	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/29/13 05:49	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/29/13 05:49	1
Vinyl chloride	8350		100		ug/L			10/30/13 23:11	100
Xylenes, Total	ND		2.00		ug/L			10/29/13 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/29/13 05:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/30/13 23:11*	*100*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/30/13 23:40*	*1000*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/29/13 05:49*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/13 23:11*	*100*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/30/13 23:40*	*1000*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*10/29/13 05:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/30/13 23:11*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/30/13 23:40*	*1000*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/29/13 05:49*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/30/13 23:11*	*100*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/30/13 23:40*	*1000*

Client Sample ID: M&A-104-102113
Date Collected: 10/21/13 15:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/29/13 06:17	1
Benzene	ND		1.00		ug/L			10/29/13 06:17	1
Bromobenzene	ND		1.00		ug/L			10/29/13 06:17	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 06:17	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 06:17	1
Bromoform	ND		1.00		ug/L			10/29/13 06:17	1
Bromomethane	ND		1.00		ug/L			10/29/13 06:17	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 06:17	1
Carbon disulfide	ND		1.00		ug/L			10/29/13 06:17	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 06:17	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 06:17	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 06:17	1
Chloroethane	ND		1.00		ug/L			10/29/13 06:17	1
Chloroform	ND		1.00		ug/L			10/29/13 06:17	1
Chloromethane	ND		1.00		ug/L			10/29/13 06:17	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 06:17	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 06:17	1
cis-1,2-Dichloroethene	**50600**		5000		ug/L			10/31/13 01:28	5000
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 06:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/29/13 06:17	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 06:17	1
Dibromomethane	ND		1.00		ug/L			10/29/13 06:17	1
1,2-Dichlorobenzene	**1.44**		1.00		ug/L			10/29/13 06:17	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 06:17	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 06:17	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 06:17	1
1,1-Dichloroethane	ND		1.00		ug/L			10/29/13 06:17	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 06:17	1
1,1-Dichloroethene	**203**		100		ug/L			10/31/13 00:33	100
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 06:17	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 06:17	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 06:17	1
1,1-Dichloropropene	ND		1.00		ug/L			10/29/13 06:17	1
Ethylbenzene	**13.0**		1.00		ug/L			10/29/13 06:17	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 06:17	1
2-Hexanone	ND		5.00		ug/L			10/29/13 06:17	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 06:17	1
Methylene Chloride	**11.9**		5.00		ug/L			10/29/13 06:17	1
4-Methyl-2-pentanone (MIBK)	**9.50**		5.00		ug/L			10/29/13 06:17	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 06:17	1
Naphthalene	ND		5.00		ug/L			10/29/13 06:17	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 06:17	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 06:17	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 06:17	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 06:17	1
Styrene	ND		1.00		ug/L			10/29/13 06:17	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 06:17	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 06:17	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 06:17	1

Client Sample ID: M&A-104-102113
Date Collected: 10/21/13 15:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2070		100		ug/L			10/31/13 00:33	100
Toluene	162		1.00		ug/L			10/29/13 06:17	1
trans-1,2-Dichloroethene	628		100		ug/L			10/31/13 00:33	100
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 06:17	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/29/13 06:17	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/29/13 06:17	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 06:17	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 06:17	1
Trichloroethene	400000		5000		ug/L			10/31/13 01:28	5000
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 06:17	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/29/13 06:17	1
1,2,4-Trimethylbenzene	4.29		1.00		ug/L			10/29/13 06:17	1
1,3,5-Trimethylbenzene	1.26		1.00		ug/L			10/29/13 06:17	1
Vinyl chloride	4590		100		ug/L			10/31/13 00:33	100
Xylenes, Total	43.2		2.00		ug/L			10/29/13 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/29/13 06:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/31/13 00:33*	*100*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/31/13 01:28*	*5000*
Dibromofluoromethane (Surr)	*138*	*X*	*70 - 130*		*10/29/13 06:17*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/31/13 00:33*	*100*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/31/13 01:28*	*5000*
1,2-Dichloroethane-d4 (Surr)	*155*	*X*	*70 - 130*		*10/29/13 06:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/31/13 00:33*	*100*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/31/13 01:28*	*5000*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/29/13 06:17*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/31/13 00:33*	*100*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/31/13 01:28*	*5000*

Client Sample ID: M&A-111-102113
Date Collected: 10/21/13 17:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 22:15	1
Benzene	ND		1.00		ug/L			10/30/13 22:15	1
Bromobenzene	ND		1.00		ug/L			10/30/13 22:15	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 22:15	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 22:15	1
Bromoform	ND		1.00		ug/L			10/30/13 22:15	1
Bromomethane	ND		1.00		ug/L			10/30/13 22:15	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 22:15	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 22:15	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 22:15	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 22:15	1
Chloroethane	ND		1.00		ug/L			10/30/13 22:15	1
Chloroform	ND		1.00		ug/L			10/30/13 22:15	1
Chloromethane	ND		1.00		ug/L			10/30/13 22:15	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 22:15	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 22:15	1
cis-1,2-Dichloroethene	428		20.0		ug/L			10/31/13 00:05	20
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 22:15	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 22:15	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 22:15	1
Dibromomethane	ND		1.00		ug/L			10/30/13 22:15	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 22:15	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 22:15	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 22:15	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 22:15	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 22:15	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 22:15	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 22:15	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 22:15	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 22:15	1
2-Hexanone	ND		5.00		ug/L			10/30/13 22:15	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 22:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 22:15	1
Naphthalene	ND		5.00		ug/L			10/30/13 22:15	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 22:15	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
Styrene	ND		1.00		ug/L			10/30/13 22:15	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 22:15	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 22:15	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: M&A-111-102113
Date Collected: 10/21/13 17:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/30/13 22:15	1
Toluene	1.95		1.00		ug/L			10/30/13 22:15	1
trans-1,2-Dichloroethene	1.90		1.00		ug/L			10/30/13 22:15	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 22:15	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 22:15	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 22:15	1
Trichloroethene	4.47		1.00		ug/L			10/30/13 22:15	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 22:15	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 22:15	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 22:15	1
Vinyl chloride	1510		20.0		ug/L			10/31/13 00:05	20
Xylenes, Total	ND		2.00		ug/L			10/30/13 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/30/13 22:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/31/13 00:05*	*20*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/13 22:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/31/13 00:05*	*20*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/30/13 22:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/31/13 00:05*	*20*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/30/13 22:15*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/31/13 00:05*	*20*

Client Sample ID: M&A-112-102113
Date Collected: 10/21/13 15:20
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/29/13 07:13	1
Benzene	ND		1.00		ug/L			10/29/13 07:13	1
Bromobenzene	ND		1.00		ug/L			10/29/13 07:13	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 07:13	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 07:13	1
Bromoform	ND		1.00		ug/L			10/29/13 07:13	1
Bromomethane	ND		1.00		ug/L			10/29/13 07:13	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 07:13	1
Carbon disulfide	**1.38**		1.00		ug/L			10/29/13 07:13	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 07:13	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 07:13	1
Chloroethane	ND		1.00		ug/L			10/29/13 07:13	1
Chloroform	ND		1.00		ug/L			10/29/13 07:13	1
Chloromethane	ND		1.00		ug/L			10/29/13 07:13	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 07:13	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 07:13	1
cis-1,2-Dichloroethene	**3060**		50.0		ug/L			10/30/13 23:37	50
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 07:13	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/29/13 07:13	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 07:13	1
Dibromomethane	ND		1.00		ug/L			10/29/13 07:13	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 07:13	1
1,1-Dichloroethane	ND		1.00		ug/L			10/29/13 07:13	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 07:13	1
1,1-Dichloroethene	**23.4**		1.00		ug/L			10/29/13 07:13	1
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 07:13	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 07:13	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 07:13	1
1,1-Dichloropropene	ND		1.00		ug/L			10/29/13 07:13	1
Ethylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 07:13	1
2-Hexanone	ND		5.00		ug/L			10/29/13 07:13	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
Methylene Chloride	ND		5.00		ug/L			10/29/13 07:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/29/13 07:13	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 07:13	1
Naphthalene	ND		5.00		ug/L			10/29/13 07:13	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 07:13	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
Styrene	ND		1.00		ug/L			10/29/13 07:13	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 07:13	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 07:13	1

Client Sample ID: M&A-112-102113
Date Collected: 10/21/13 15:20
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-5
Matrix: Water

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Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	29.6		1.00		ug/L			10/29/13 07:13	1
Toluene	1.83		1.00		ug/L			10/29/13 07:13	1
trans-1,2-Dichloroethene	35.8		1.00		ug/L			10/29/13 07:13	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 07:13	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 07:13	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 07:13	1
Trichloroethene	671		50.0		ug/L			10/30/13 23:37	50
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 07:13	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/29/13 07:13	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/29/13 07:13	1
Vinyl chloride	311		50.0		ug/L			10/30/13 23:37	50
Xylenes, Total	ND		2.00		ug/L			10/29/13 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/29/13 07:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/30/13 23:37*	*50*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/29/13 07:13*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/30/13 23:37*	*50*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*10/29/13 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/30/13 23:37*	*50*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/29/13 07:13*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/30/13 23:37*	*50*

Client Sample ID: M&A-115-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 17:06	1
Benzene	ND		1.00		ug/L			10/30/13 17:06	1
Bromobenzene	ND		1.00		ug/L			10/30/13 17:06	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 17:06	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 17:06	1
Bromoform	ND		1.00		ug/L			10/30/13 17:06	1
Bromomethane	ND		1.00		ug/L			10/30/13 17:06	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 17:06	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 17:06	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 17:06	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 17:06	1
Chloroethane	ND		1.00		ug/L			10/30/13 17:06	1
Chloroform	ND		1.00		ug/L			10/30/13 17:06	1
Chloromethane	ND		1.00		ug/L			10/30/13 17:06	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 17:06	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 17:06	1
cis-1,2-Dichloroethene	**43.5**		1.00		ug/L			10/30/13 17:06	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 17:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 17:06	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 17:06	1
Dibromomethane	ND		1.00		ug/L			10/30/13 17:06	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 17:06	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 17:06	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 17:06	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 17:06	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 17:06	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 17:06	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 17:06	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 17:06	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 17:06	1
2-Hexanone	ND		5.00		ug/L			10/30/13 17:06	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 17:06	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 17:06	1
Naphthalene	ND		5.00		ug/L			10/30/13 17:06	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 17:06	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
Styrene	ND		1.00		ug/L			10/30/13 17:06	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 17:06	1

Client Sample ID: M&A-115-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/30/13 17:06	1
Toluene	ND		1.00		ug/L			10/30/13 17:06	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 17:06	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 17:06	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 17:06	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 17:06	1
Trichloroethene	24.8		1.00		ug/L			10/30/13 17:06	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 17:06	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 17:06	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 17:06	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 17:06	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/30/13 17:06*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/30/13 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/30/13 17:06*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/30/13 17:06*	*1*

Client Sample ID: M&A-116-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 17:34	1
Benzene	ND		1.00		ug/L			10/30/13 17:34	1
Bromobenzene	ND		1.00		ug/L			10/30/13 17:34	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 17:34	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 17:34	1
Bromoform	ND		1.00		ug/L			10/30/13 17:34	1
Bromomethane	ND		1.00		ug/L			10/30/13 17:34	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 17:34	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 17:34	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 17:34	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 17:34	1
Chloroethane	ND		1.00		ug/L			10/30/13 17:34	1
Chloroform	ND		1.00		ug/L			10/30/13 17:34	1
Chloromethane	ND		1.00		ug/L			10/30/13 17:34	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 17:34	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 17:34	1
cis-1,2-Dichloroethene	9.09		1.00		ug/L			10/30/13 17:34	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 17:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 17:34	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 17:34	1
Dibromomethane	ND		1.00		ug/L			10/30/13 17:34	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 17:34	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 17:34	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 17:34	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 17:34	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 17:34	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 17:34	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 17:34	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 17:34	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 17:34	1
2-Hexanone	ND		5.00		ug/L			10/30/13 17:34	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 17:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 17:34	1
Naphthalene	ND		5.00		ug/L			10/30/13 17:34	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 17:34	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
Styrene	ND		1.00		ug/L			10/30/13 17:34	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 17:34	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: M&A-116-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/30/13 17:34	1
Toluene	ND		1.00		ug/L			10/30/13 17:34	1
trans-1,2-Dichloroethene	1.27		1.00		ug/L			10/30/13 17:34	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 17:34	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 17:34	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 17:34	1
Trichloroethene	9.31		1.00		ug/L			10/30/13 17:34	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 17:34	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 17:34	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 17:34	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 17:34	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/30/13 17:34*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/30/13 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/30/13 17:34*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/13 17:34*	*1*

Client Sample ID: M&A-122-102213
Date Collected: 10/22/13 13:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 18:02	1
Benzene	ND		1.00		ug/L			10/30/13 18:02	1
Bromobenzene	ND		1.00		ug/L			10/30/13 18:02	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 18:02	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 18:02	1
Bromoform	ND		1.00		ug/L			10/30/13 18:02	1
Bromomethane	ND		1.00		ug/L			10/30/13 18:02	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 18:02	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 18:02	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 18:02	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 18:02	1
Chloroethane	ND		1.00		ug/L			10/30/13 18:02	1
Chloroform	ND		1.00		ug/L			10/30/13 18:02	1
Chloromethane	ND		1.00		ug/L			10/30/13 18:02	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 18:02	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 18:02	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 18:02	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 18:02	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 18:02	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 18:02	1
Dibromomethane	ND		1.00		ug/L			10/30/13 18:02	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 18:02	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 18:02	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 18:02	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 18:02	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 18:02	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 18:02	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 18:02	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 18:02	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 18:02	1
2-Hexanone	ND		5.00		ug/L			10/30/13 18:02	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 18:02	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 18:02	1
Naphthalene	ND		5.00		ug/L			10/30/13 18:02	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 18:02	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
Styrene	ND		1.00		ug/L			10/30/13 18:02	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 18:02	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 18:02	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: M&A-122-102213
Date Collected: 10/22/13 13:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/30/13 18:02	1
Toluene	ND		1.00		ug/L			10/30/13 18:02	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 18:02	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 18:02	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 18:02	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 18:02	1
Trichloroethene	ND		1.00		ug/L			10/30/13 18:02	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 18:02	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 18:02	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 18:02	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 18:02	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/30/13 18:02*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/30/13 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*10/30/13 18:02*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/13 18:02*	*1*

Client Sample ID: M&A-126-102213
Date Collected: 10/22/13 10:20
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 18:30	1
Benzene	ND		1.00		ug/L			10/30/13 18:30	1
Bromobenzene	ND		1.00		ug/L			10/30/13 18:30	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 18:30	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 18:30	1
Bromoform	ND		1.00		ug/L			10/30/13 18:30	1
Bromomethane	ND		1.00		ug/L			10/30/13 18:30	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 18:30	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 18:30	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 18:30	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 18:30	1
Chloroethane	ND		1.00		ug/L			10/30/13 18:30	1
Chloroform	ND		1.00		ug/L			10/30/13 18:30	1
Chloromethane	ND		1.00		ug/L			10/30/13 18:30	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 18:30	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 18:30	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 18:30	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 18:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 18:30	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 18:30	1
Dibromomethane	ND		1.00		ug/L			10/30/13 18:30	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 18:30	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 18:30	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 18:30	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 18:30	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 18:30	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 18:30	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 18:30	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 18:30	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 18:30	1
2-Hexanone	ND		5.00		ug/L			10/30/13 18:30	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 18:30	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 18:30	1
Naphthalene	ND		5.00		ug/L			10/30/13 18:30	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 18:30	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
Styrene	ND		1.00		ug/L			10/30/13 18:30	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 18:30	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 18:30	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: M&A-126-102213
Date Collected: 10/22/13 10:20
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			10/30/13 18:30	1
Toluene	ND		1.00		ug/L			10/30/13 18:30	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 18:30	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 18:30	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 18:30	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 18:30	1
Trichloroethene	ND		1.00		ug/L			10/30/13 18:30	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 18:30	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 18:30	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 18:30	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 18:30	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/30/13 18:30*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/30/13 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/30/13 18:30*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/13 18:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 490-38669-A-1-A MS
Matrix: Water
Analysis Batch: 118086

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 117230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		118000	150400		ug/L		128	45 - 141
Benzene	3280		23600	29050		ug/L		109	75 - 133
Bromobenzene	ND		23600	29430		ug/L		125	60 - 138
Bromochloromethane	ND		23600	23580		ug/L		100	67 - 139
Bromodichloromethane	ND		23600	27470		ug/L		116	70 - 140
Bromoform	ND		23600	24340		ug/L		103	42 - 147
Bromomethane	ND		23600	6930		ug/L		29	16 - 163
2-Butanone (MEK)	ND		118000	65600		ug/L		56	50 - 138
Carbon disulfide	ND		23600	25590		ug/L		109	48 - 152
Carbon tetrachloride	ND		23600	24930		ug/L		106	62 - 164
Chlorobenzene	ND		23600	24330		ug/L		103	80 - 129
Chlorodibromomethane	ND		23600	25210		ug/L		107	66 - 140
Chloroethane	ND		23600	11710	F	ug/L		50	58 - 137
Chloroform	ND		23600	25270		ug/L		107	66 - 138
Chloromethane	ND		23600	29270		ug/L		124	10 - 169
2-Chlorotoluene	45000		23600	61980		ug/L		72	67 - 138
4-Chlorotoluene	ND		23600	34370	F	ug/L		146	69 - 138
cis-1,2-Dichloroethene	5710		23600	30390		ug/L		105	68 - 138
cis-1,3-Dichloropropene	ND		23600	24130		ug/L		102	71 - 141
1,2-Dibromo-3-Chloropropane	ND		23600	27700		ug/L		117	52 - 126
1,2-Dibromoethane (EDB)	ND		23600	24100		ug/L		102	75 - 137
Dibromomethane	ND		23600	25620		ug/L		109	58 - 140
1,2-Dichlorobenzene	ND		23600	5769	F	ug/L		24	79 - 128
1,3-Dichlorobenzene	ND		23600	27100		ug/L		115	77 - 131
1,4-Dichlorobenzene	ND		23600	25850		ug/L		108	78 - 126
Dichlorodifluoromethane	ND		23600	28550		ug/L		121	40 - 127
1,1-Dichloroethane	6030		23600	34140		ug/L		119	71 - 139
1,2-Dichloroethane	ND		23600	25350		ug/L		107	64 - 136
1,1-Dichloroethene	ND		23600	26940		ug/L		113	70 - 142
1,2-Dichloropropane	647		23600	28230		ug/L		117	67 - 131
1,3-Dichloropropane	ND		23600	8584	F	ug/L		36	72 - 134
2,2-Dichloropropane	ND		23600	24240		ug/L		103	37 - 175
1,1-Dichloropropene	ND		23600	26980		ug/L		114	76 - 139
Ethylbenzene	64700		23600	76300	F	ug/L		49	79 - 139
Hexachlorobutadiene	ND		23600	35340		ug/L		150	45 - 155
2-Hexanone	ND		118000	149600		ug/L		127	50 - 150
Isopropylbenzene	7080		23600	31600		ug/L		104	80 - 153
Methylene Chloride	ND		23600	27340		ug/L		106	64 - 139
4-Methyl-2-pentanone (MIBK)	6950		118000	148400		ug/L		120	50 - 147
Methyl tert-butyl ether	ND		23600	28850		ug/L		122	66 - 141
Naphthalene	ND		23600	58860	F	ug/L		250	55 - 140
n-Butylbenzene	5270		23600	50160	F	ug/L		190	66 - 141
N-Propylbenzene	ND		23600	53830	F	ug/L		228	69 - 142
p-Isopropyltoluene	ND		23600	80860	F	ug/L		343	71 - 137
sec-Butylbenzene	ND		23600	33980	F	ug/L		144	73 - 138
Styrene	ND		23600	28070		ug/L		119	61 - 148
tert-Butylbenzene	ND		23600	29770		ug/L		126	70 - 138
1,1,1,2-Tetrachloroethane	ND		23600	24810		ug/L		105	73 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38669-A-1-A MS
Matrix: Water
Analysis Batch: 118086

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 117230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	5130		23600	38930		ug/L		143	56 - 143
Tetrachloroethene	865000	E	23600	724100	E 4	ug/L		-595	72 - 145
Toluene	127000	E	23600	126000	E 4	ug/L		-3	75 - 136
trans-1,2-Dichloroethene	ND		23600	26670		ug/L		112	66 - 143
trans-1,3-Dichloropropene	ND		23600	24970		ug/L		106	59 - 135
1,2,3-Trichlorobenzene	ND		23600	1067	F	ug/L		5	55 - 138
1,2,4-Trichlorobenzene	ND		23600	22850		ug/L		97	60 - 136
1,1,1-Trichloroethane	1080		23600	26400		ug/L		107	76 - 149
1,1,2-Trichloroethane	ND		23600	29090		ug/L		123	74 - 134
Trichloroethene	160000	E	23600	175700	E 4	ug/L		67	73 - 144
Trichlorofluoromethane	ND		23600	17280		ug/L		73	58 - 139
1,2,3-Trichloropropane	10900		23600	39450		ug/L		121	53 - 144
1,2,4-Trimethylbenzene	ND		23600	136700	E F	ug/L		580	69 - 136
1,3,5-Trimethylbenzene	158000	E	23600	81130	4	ug/L		-327	69 - 139
Vinyl chloride	1600		23600	32010		ug/L		129	56 - 129
Xylenes, Total	239000		47200	246300	4	ug/L		15	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: 490-38669-A-1-A MSD
Matrix: Water
Analysis Batch: 118086

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 117230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		118000	152300		ug/L		129	45 - 141	1	21
Benzene	3280		23600	29170		ug/L		110	75 - 133	0	17
Bromobenzene	ND		23600	28950		ug/L		123	60 - 138	2	20
Bromochloromethane	ND		23600	23730		ug/L		101	67 - 139	1	17
Bromodichloromethane	ND		23600	28020		ug/L		119	70 - 140	2	18
Bromoform	ND		23600	24610		ug/L		104	42 - 147	1	16
Bromomethane	ND		23600	9051		ug/L		38	16 - 163	27	50
2-Butanone (MEK)	ND		118000	140800	F	ug/L		119	50 - 138	73	19
Carbon disulfide	ND		23600	9195	F	ug/L		39	48 - 152	94	21
Carbon tetrachloride	ND		23600	25330		ug/L		107	62 - 164	2	19
Chlorobenzene	ND		23600	24110		ug/L		102	80 - 129	1	14
Chlorodibromomethane	ND		23600	25240		ug/L		107	66 - 140	0	15
Chloroethane	ND		23600	12200	F	ug/L		52	58 - 137	4	20
Chloroform	ND		23600	25270		ug/L		107	66 - 138	0	18
Chloromethane	ND		23600	30760		ug/L		130	10 - 169	5	31
2-Chlorotoluene	45000		23600	61020		ug/L		68	67 - 138	2	17
4-Chlorotoluene	ND		23600	34040	F	ug/L		144	69 - 138	1	18
cis-1,2-Dichloroethene	5710		23600	30960		ug/L		107	68 - 138	2	17
cis-1,3-Dichloropropene	ND		23600	24710		ug/L		105	71 - 141	2	15
1,2-Dibromo-3-Chloropropane	ND		23600	28670		ug/L		122	52 - 126	3	24

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38669-A-1-A MSD
Matrix: Water
Analysis Batch: 118086

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 117230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		23600	24430		ug/L		104	75 - 137	1	15
Dibromomethane	ND		23600	26460		ug/L		112	58 - 140	3	16
1,2-Dichlorobenzene	ND		23600	5741	F	ug/L		24	79 - 128	0	15
1,3-Dichlorobenzene	ND		23600	26520		ug/L		112	77 - 131	2	15
1,4-Dichlorobenzene	ND		23600	25430		ug/L		107	78 - 126	2	15
Dichlorodifluoromethane	ND		23600	28790		ug/L		122	40 - 127	1	18
1,1-Dichloroethane	6030		23600	34180		ug/L		119	71 - 139	0	17
1,2-Dichloroethane	ND		23600	25550		ug/L		108	64 - 136	1	17
1,1-Dichloroethene	ND		23600	27220		ug/L		114	70 - 142	1	17
1,2-Dichloropropane	647		23600	28520		ug/L		118	67 - 131	1	17
1,3-Dichloropropane	ND		23600	8992	F	ug/L		38	72 - 134	5	14
2,2-Dichloropropane	ND		23600	24250		ug/L		103	37 - 175	0	18
1,1-Dichloropropene	ND		23600	27200		ug/L		115	76 - 139	1	17
Ethylbenzene	64700		23600	77220	F	ug/L		53	79 - 139	1	15
Hexachlorobutadiene	ND		23600	36350		ug/L		154	45 - 155	3	23
2-Hexanone	ND		118000	151000		ug/L		128	50 - 150	1	15
Isopropylbenzene	7080		23600	31470		ug/L		103	80 - 153	0	16
Methylene Chloride	ND		23600	26400		ug/L		102	64 - 139	4	17
4-Methyl-2-pentanone (MIBK)	6950		118000	149000		ug/L		120	50 - 147	0	17
Methyl tert-butyl ether	ND		23600	29110		ug/L		123	66 - 141	1	16
Naphthalene	ND		23600	60370	F	ug/L		256	55 - 140	3	26
n-Butylbenzene	5270		23600	50060	F	ug/L		190	66 - 141	0	18
N-Propylbenzene	ND		23600	53120	F	ug/L		225	69 - 142	1	17
p-Isopropyltoluene	ND		23600	14270	F	ug/L		61	71 - 137	140	16
sec-Butylbenzene	ND		23600	33290	F	ug/L		141	73 - 138	2	16
Styrene	ND		23600	27840		ug/L		118	61 - 148	1	24
tert-Butylbenzene	ND		23600	29610		ug/L		126	70 - 138	1	16
1,1,1,2-Tetrachloroethane	ND		23600	24590		ug/L		104	73 - 141	1	16
1,1,2,2-Tetrachloroethane	5130		23600	38910		ug/L		143	56 - 143	0	20
Tetrachloroethene	865000	E	23600	813800	E 4	ug/L		-215	72 - 145	12	16
Toluene	127000	E	23600	127800	E 4	ug/L		4	75 - 136	1	15
trans-1,2-Dichloroethene	ND		23600	26810		ug/L		113	66 - 143	1	16
trans-1,3-Dichloropropene	ND		23600	25010		ug/L		106	59 - 135	0	14
1,2,3-Trichlorobenzene	ND		23600	1390	F	ug/L		6	55 - 138	26	25
1,2,4-Trichlorobenzene	ND		23600	23770		ug/L		101	60 - 136	4	19
1,1,1-Trichloroethane	1080		23600	18240	F	ug/L		73	76 - 149	37	17
1,1,2-Trichloroethane	ND		23600	29260		ug/L		124	74 - 134	1	15
Trichloroethene	160000	E	23600	178500	E 4	ug/L		79	73 - 144	2	17
Trichlorofluoromethane	ND		23600	18040		ug/L		77	58 - 139	4	18
1,2,3-Trichloropropane	10900		23600	40260		ug/L		125	53 - 144	2	19
1,2,4-Trimethylbenzene	ND		23600	135600	E F	ug/L		575	69 - 136	1	16
1,3,5-Trimethylbenzene	158000	E	23600	80740	4	ug/L		-328	69 - 139	0	17
Vinyl chloride	1600		23600	33410	F	ug/L		135	56 - 129	4	17
Xylenes, Total	239000		47200	250100	4	ug/L		23	74 - 141	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38669-A-1-A MSD
Matrix: Water
Analysis Batch: 118086

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 117230

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 490-117436/7
Matrix: Water
Analysis Batch: 117436

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/29/13 01:12	1
Benzene	ND		1.00		ug/L			10/29/13 01:12	1
Bromobenzene	ND		1.00		ug/L			10/29/13 01:12	1
Bromochloromethane	ND		1.00		ug/L			10/29/13 01:12	1
Bromodichloromethane	ND		1.00		ug/L			10/29/13 01:12	1
Bromoform	ND		1.00		ug/L			10/29/13 01:12	1
Bromomethane	ND		1.00		ug/L			10/29/13 01:12	1
2-Butanone (MEK)	ND		50.0		ug/L			10/29/13 01:12	1
Carbon disulfide	ND		1.00		ug/L			10/29/13 01:12	1
Carbon tetrachloride	ND		1.00		ug/L			10/29/13 01:12	1
Chlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
Chlorodibromomethane	ND		1.00		ug/L			10/29/13 01:12	1
Chloroethane	ND		1.00		ug/L			10/29/13 01:12	1
Chloroform	ND		1.00		ug/L			10/29/13 01:12	1
Chloromethane	ND		1.00		ug/L			10/29/13 01:12	1
2-Chlorotoluene	ND		1.00		ug/L			10/29/13 01:12	1
4-Chlorotoluene	ND		1.00		ug/L			10/29/13 01:12	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 01:12	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 01:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/29/13 01:12	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/29/13 01:12	1
Dibromomethane	ND		1.00		ug/L			10/29/13 01:12	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1-Dichloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,2-Dichloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1-Dichloroethene	ND		1.00		ug/L			10/29/13 01:12	1
1,2-Dichloropropane	ND		1.00		ug/L			10/29/13 01:12	1
1,3-Dichloropropane	ND		1.00		ug/L			10/29/13 01:12	1
2,2-Dichloropropane	ND		1.00		ug/L			10/29/13 01:12	1
1,1-Dichloropropene	ND		1.00		ug/L			10/29/13 01:12	1
Ethylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
Hexachlorobutadiene	ND		2.00		ug/L			10/29/13 01:12	1
2-Hexanone	ND		5.00		ug/L			10/29/13 01:12	1
Isopropylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
Methylene Chloride	ND		5.00		ug/L			10/29/13 01:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/29/13 01:12	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/29/13 01:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-117436/7
Matrix: Water
Analysis Batch: 117436

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			10/29/13 01:12	1
n-Butylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
N-Propylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
p-Isopropyltoluene	ND		1.00		ug/L			10/29/13 01:12	1
sec-Butylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
Styrene	ND		1.00		ug/L			10/29/13 01:12	1
tert-Butylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/29/13 01:12	1
Tetrachloroethene	ND		1.00		ug/L			10/29/13 01:12	1
Toluene	ND		1.00		ug/L			10/29/13 01:12	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/29/13 01:12	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/29/13 01:12	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/29/13 01:12	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/29/13 01:12	1
Trichloroethene	ND		1.00		ug/L			10/29/13 01:12	1
Trichlorofluoromethane	ND		1.00		ug/L			10/29/13 01:12	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/29/13 01:12	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/29/13 01:12	1
Vinyl chloride	ND		1.00		ug/L			10/29/13 01:12	1
Xylenes, Total	ND		2.00		ug/L			10/29/13 01:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/29/13 01:12*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/29/13 01:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*10/29/13 01:12*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/29/13 01:12*	*1*

Lab Sample ID: LCS 490-117436/3
Matrix: Water
Analysis Batch: 117436

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	254.5		ug/L		102	54 - 145
Benzene	50.0	51.77		ug/L		104	80 - 121
Bromobenzene	50.0	54.29		ug/L		109	68 - 130
Bromochloromethane	50.0	52.14		ug/L		104	78 - 129
Bromodichloromethane	50.0	57.15		ug/L		114	75 - 129
Bromoform	50.0	64.04		ug/L		128	46 - 145
Bromomethane	50.0	55.85		ug/L		112	41 - 150
2-Butanone (MEK)	250	257.5		ug/L		103	62 - 133
Carbon disulfide	50.0	53.49		ug/L		107	77 - 126
Carbon tetrachloride	50.0	62.52		ug/L		125	64 - 147
Chlorobenzene	50.0	53.18		ug/L		106	80 - 120
Chlorodibromomethane	50.0	56.17		ug/L		112	69 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117436/3
Matrix: Water
Analysis Batch: 117436

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	51.99		ug/L		104	72 - 120
Chloroform	50.0	53.03		ug/L		106	73 - 129
Chloromethane	50.0	53.29		ug/L		107	12 - 150
2-Chlorotoluene	50.0	52.99		ug/L		106	75 - 126
4-Chlorotoluene	50.0	54.09		ug/L		108	75 - 130
cis-1,2-Dichloroethene	50.0	55.11		ug/L		110	76 - 125
cis-1,3-Dichloropropene	50.0	53.74		ug/L		107	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	53.41		ug/L		107	54 - 125
1,2-Dibromoethane (EDB)	50.0	51.49		ug/L		103	80 - 129
Dibromomethane	50.0	52.72		ug/L		105	71 - 125
1,2-Dichlorobenzene	50.0	53.96		ug/L		108	80 - 121
1,3-Dichlorobenzene	50.0	54.77		ug/L		110	80 - 122
1,4-Dichlorobenzene	50.0	53.66		ug/L		107	80 - 120
Dichlorodifluoromethane	50.0	62.91		ug/L		126	37 - 127
1,1-Dichloroethane	50.0	51.81		ug/L		104	78 - 125
1,2-Dichloroethane	50.0	57.07		ug/L		114	77 - 121
1,1-Dichloroethene	50.0	54.63		ug/L		109	79 - 124
1,2-Dichloropropane	50.0	49.90		ug/L		100	75 - 120
1,3-Dichloropropane	50.0	50.57		ug/L		101	80 - 125
2,2-Dichloropropane	50.0	59.30		ug/L		119	43 - 161
1,1-Dichloropropene	50.0	55.81		ug/L		112	80 - 122
Ethylbenzene	50.0	55.57		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	56.60		ug/L		113	49 - 146
2-Hexanone	250	263.0		ug/L		105	60 - 142
Isopropylbenzene	50.0	61.26		ug/L		123	80 - 141
Methylene Chloride	50.0	47.43		ug/L		95	79 - 123
4-Methyl-2-pentanone (MIBK)	250	257.3		ug/L		103	60 - 137
Methyl tert-butyl ether	50.0	53.61		ug/L		107	72 - 133
Naphthalene	50.0	48.77		ug/L		98	62 - 138
n-Butylbenzene	50.0	57.34		ug/L		115	68 - 132
N-Propylbenzene	50.0	55.51		ug/L		111	75 - 129
p-Isopropyltoluene	50.0	58.26		ug/L		117	75 - 128
sec-Butylbenzene	50.0	57.43		ug/L		115	76 - 128
Styrene	50.0	59.44		ug/L		119	80 - 127
tert-Butylbenzene	50.0	57.07		ug/L		114	76 - 126
1,1,1,2-Tetrachloroethane	50.0	56.82		ug/L		114	74 - 135
1,1,2,2-Tetrachloroethane	50.0	47.96		ug/L		96	69 - 131
Tetrachloroethene	50.0	56.79		ug/L		114	80 - 126
Toluene	50.0	52.62		ug/L		105	80 - 126
trans-1,2-Dichloroethene	50.0	53.14		ug/L		106	79 - 126
trans-1,3-Dichloropropene	50.0	56.73		ug/L		113	63 - 134
1,2,3-Trichlorobenzene	50.0	56.74		ug/L		113	62 - 133
1,2,4-Trichlorobenzene	50.0	56.38		ug/L		113	63 - 133
1,1,1-Trichloroethane	50.0	59.41		ug/L		119	78 - 135
1,1,2-Trichloroethane	50.0	49.12		ug/L		98	80 - 124
Trichloroethene	50.0	55.76		ug/L		112	80 - 123
Trichlorofluoromethane	50.0	55.98		ug/L		112	65 - 124
1,2,3-Trichloropropane	50.0	49.10		ug/L		98	70 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-117436/3
Matrix: Water
Analysis Batch: 117436

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	56.32		ug/L		113	77 - 126
1,3,5-Trimethylbenzene	50.0	56.48		ug/L		113	77 - 127
Vinyl chloride	50.0	52.51		ug/L		105	68 - 120
Xylenes, Total	100	115.6		ug/L		116	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-117436/4
Matrix: Water
Analysis Batch: 117436

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	264.0		ug/L		106	54 - 145	4	21
Benzene	50.0	50.22		ug/L		100	80 - 121	3	17
Bromobenzene	50.0	53.91		ug/L		108	68 - 130	1	20
Bromochloromethane	50.0	50.55		ug/L		101	78 - 129	3	17
Bromodichloromethane	50.0	55.40		ug/L		111	75 - 129	3	18
Bromoform	50.0	61.68		ug/L		123	46 - 145	4	16
Bromomethane	50.0	55.73		ug/L		111	41 - 150	0	50
2-Butanone (MEK)	250	239.6		ug/L		96	62 - 133	7	19
Carbon disulfide	50.0	52.28		ug/L		105	77 - 126	2	21
Carbon tetrachloride	50.0	60.15		ug/L		120	64 - 147	4	19
Chlorobenzene	50.0	51.45		ug/L		103	80 - 120	3	14
Chlorodibromomethane	50.0	55.11		ug/L		110	69 - 133	2	15
Chloroethane	50.0	50.71		ug/L		101	72 - 120	2	20
Chloroform	50.0	51.75		ug/L		103	73 - 129	2	18
Chloromethane	50.0	53.62		ug/L		107	12 - 150	1	31
2-Chlorotoluene	50.0	51.86		ug/L		104	75 - 126	2	17
4-Chlorotoluene	50.0	52.20		ug/L		104	75 - 130	4	18
cis-1,2-Dichloroethene	50.0	53.17		ug/L		106	76 - 125	4	17
cis-1,3-Dichloropropene	50.0	51.90		ug/L		104	74 - 140	3	15
1,2-Dibromo-3-Chloropropane	50.0	52.99		ug/L		106	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	49.70		ug/L		99	80 - 129	4	15
Dibromomethane	50.0	52.81		ug/L		106	71 - 125	0	16
1,2-Dichlorobenzene	50.0	52.49		ug/L		105	80 - 121	3	15
1,3-Dichlorobenzene	50.0	53.40		ug/L		107	80 - 122	3	15
1,4-Dichlorobenzene	50.0	51.68		ug/L		103	80 - 120	4	15
Dichlorodifluoromethane	50.0	61.26		ug/L		123	37 - 127	3	18
1,1-Dichloroethane	50.0	51.10		ug/L		102	78 - 125	1	17
1,2-Dichloroethane	50.0	55.70		ug/L		111	77 - 121	2	17
1,1-Dichloroethene	50.0	51.56		ug/L		103	79 - 124	6	17
1,2-Dichloropropane	50.0	48.77		ug/L		98	75 - 120	2	17
1,3-Dichloropropane	50.0	49.61		ug/L		99	80 - 125	2	14
2,2-Dichloropropane	50.0	57.13		ug/L		114	43 - 161	4	18

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-117436/4
Matrix: Water
Analysis Batch: 117436

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	50.0	53.92		ug/L		108	80 - 122	3	17
Ethylbenzene	50.0	54.11		ug/L		108	80 - 130	3	15
Hexachlorobutadiene	50.0	55.22		ug/L		110	49 - 146	2	23
2-Hexanone	250	257.9		ug/L		103	60 - 142	2	15
Isopropylbenzene	50.0	59.16		ug/L		118	80 - 141	3	16
Methylene Chloride	50.0	46.20		ug/L		92	79 - 123	3	17
4-Methyl-2-pentanone (MIBK)	250	251.6		ug/L		101	60 - 137	2	17
Methyl tert-butyl ether	50.0	52.31		ug/L		105	72 - 133	2	16
Naphthalene	50.0	47.86		ug/L		96	62 - 138	2	26
n-Butylbenzene	50.0	55.86		ug/L		112	68 - 132	3	18
N-Propylbenzene	50.0	53.83		ug/L		108	75 - 129	3	17
p-Isopropyltoluene	50.0	56.21		ug/L		112	75 - 128	4	16
sec-Butylbenzene	50.0	55.67		ug/L		111	76 - 128	3	16
Styrene	50.0	55.36		ug/L		111	80 - 127	7	24
tert-Butylbenzene	50.0	55.21		ug/L		110	76 - 126	3	16
1,1,1,2-Tetrachloroethane	50.0	54.80		ug/L		110	74 - 135	4	16
1,1,2,2-Tetrachloroethane	50.0	46.92		ug/L		94	69 - 131	2	20
Tetrachloroethene	50.0	54.42		ug/L		109	80 - 126	4	16
Toluene	50.0	50.51		ug/L		101	80 - 126	4	15
trans-1,2-Dichloroethene	50.0	50.95		ug/L		102	79 - 126	4	16
trans-1,3-Dichloropropene	50.0	54.78		ug/L		110	63 - 134	4	14
1,2,3-Trichlorobenzene	50.0	56.11		ug/L		112	62 - 133	1	25
1,2,4-Trichlorobenzene	50.0	55.32		ug/L		111	63 - 133	2	19
1,1,1-Trichloroethane	50.0	57.87		ug/L		116	78 - 135	3	17
1,1,2-Trichloroethane	50.0	47.25		ug/L		95	80 - 124	4	15
Trichloroethene	50.0	54.36		ug/L		109	80 - 123	3	17
Trichlorofluoromethane	50.0	54.78		ug/L		110	65 - 124	2	18
1,2,3-Trichloropropane	50.0	48.13		ug/L		96	70 - 131	2	19
1,2,4-Trimethylbenzene	50.0	54.79		ug/L		110	77 - 126	3	16
1,3,5-Trimethylbenzene	50.0	54.42		ug/L		109	77 - 127	4	17
Vinyl chloride	50.0	51.00		ug/L		102	68 - 120	3	17
Xylenes, Total	100	109.7		ug/L		110	80 - 132	5	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 490-38573-B-18 MS
Matrix: Water
Analysis Batch: 117436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250	248.0		ug/L		99	45 - 141
Benzene	ND		50.0	51.77		ug/L		104	75 - 133
Bromobenzene	ND		50.0	54.24		ug/L		108	60 - 138
Bromochloromethane	ND		50.0	54.09		ug/L		108	67 - 139

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-B-18 MS
Matrix: Water
Analysis Batch: 117436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	ND		50.0	57.10		ug/L		114	70 - 140
Bromoform	ND		50.0	57.90		ug/L		116	42 - 147
Bromomethane	ND		50.0	56.70		ug/L		113	16 - 163
2-Butanone (MEK)	ND		250	236.3		ug/L		95	50 - 138
Carbon disulfide	ND		50.0	52.13		ug/L		104	48 - 152
Carbon tetrachloride	ND		50.0	61.40		ug/L		123	62 - 164
Chlorobenzene	ND		50.0	53.53		ug/L		107	80 - 129
Chlorodibromomethane	ND		50.0	55.55		ug/L		111	66 - 140
Chloroethane	ND		50.0	52.19		ug/L		104	58 - 137
Chloroform	ND		50.0	53.78		ug/L		108	66 - 138
Chloromethane	ND		50.0	53.13		ug/L		106	10 - 169
2-Chlorotoluene	ND		50.0	52.67		ug/L		105	67 - 138
4-Chlorotoluene	ND		50.0	53.71		ug/L		107	69 - 138
cis-1,2-Dichloroethene	ND		50.0	56.61		ug/L		113	68 - 138
cis-1,3-Dichloropropene	ND		50.0	53.14		ug/L		106	71 - 141
1,2-Dibromo-3-Chloropropane	ND		50.0	55.92		ug/L		112	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	50.25		ug/L		100	75 - 137
Dibromomethane	ND		50.0	51.80		ug/L		104	58 - 140
1,2-Dichlorobenzene	ND		50.0	56.03		ug/L		112	79 - 128
1,3-Dichlorobenzene	ND		50.0	53.73		ug/L		107	77 - 131
1,4-Dichlorobenzene	ND		50.0	52.11		ug/L		104	78 - 126
Dichlorodifluoromethane	ND		50.0	67.34	F	ug/L		135	40 - 127
1,1-Dichloroethane	ND		50.0	52.36		ug/L		105	71 - 139
1,2-Dichloroethane	ND		50.0	55.55		ug/L		111	64 - 136
1,1-Dichloroethene	ND		50.0	54.59		ug/L		109	70 - 142
1,2-Dichloropropane	ND		50.0	49.95		ug/L		100	67 - 131
1,3-Dichloropropane	ND		50.0	49.45		ug/L		99	72 - 134
2,2-Dichloropropane	ND		50.0	60.56		ug/L		121	37 - 175
1,1-Dichloropropene	ND		50.0	55.32		ug/L		111	76 - 139
Ethylbenzene	ND		50.0	55.90		ug/L		112	79 - 139
Hexachlorobutadiene	ND		50.0	54.75		ug/L		109	45 - 155
2-Hexanone	ND		250	251.6		ug/L		101	50 - 150
Isopropylbenzene	ND		50.0	56.59		ug/L		113	80 - 153
Methylene Chloride	ND		50.0	50.77		ug/L		94	64 - 139
4-Methyl-2-pentanone (MIBK)	ND		250	242.6		ug/L		97	50 - 147
Methyl tert-butyl ether	ND		50.0	52.00		ug/L		104	66 - 141
Naphthalene	ND		50.0	48.51		ug/L		97	55 - 140
n-Butylbenzene	ND		50.0	59.01		ug/L		118	66 - 141
N-Propylbenzene	ND		50.0	54.48		ug/L		109	69 - 142
p-Isopropyltoluene	ND		50.0	56.86		ug/L		114	71 - 137
sec-Butylbenzene	ND		50.0	56.41		ug/L		113	73 - 138
Styrene	ND		50.0	56.17		ug/L		112	61 - 148
tert-Butylbenzene	ND		50.0	56.15		ug/L		112	70 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	56.53		ug/L		113	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	46.84		ug/L		94	56 - 143
Tetrachloroethene	ND		50.0	56.74		ug/L		113	72 - 145
Toluene	ND		50.0	52.97		ug/L		106	75 - 136
trans-1,2-Dichloroethene	ND		50.0	52.52		ug/L		105	66 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-B-18 MS
Matrix: Water
Analysis Batch: 117436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		50.0	54.54		ug/L		109	59 - 135
1,2,3-Trichlorobenzene	ND		50.0	54.87		ug/L		110	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	55.92		ug/L		112	60 - 136
1,1,1-Trichloroethane	ND		50.0	58.91		ug/L		118	76 - 149
1,1,2-Trichloroethane	ND		50.0	48.08		ug/L		96	74 - 134
Trichloroethene	ND		50.0	66.56		ug/L		133	73 - 144
Trichlorofluoromethane	ND		50.0	62.38		ug/L		125	58 - 139
1,2,3-Trichloropropane	ND		50.0	47.20		ug/L		94	53 - 144
1,2,4-Trimethylbenzene	ND		50.0	55.52		ug/L		111	69 - 136
1,3,5-Trimethylbenzene	ND		50.0	55.43		ug/L		111	69 - 139
Vinyl chloride	ND		50.0	53.76		ug/L		108	56 - 129
Xylenes, Total	ND		100	112.2		ug/L		112	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: 490-38573-C-18 MSD
Matrix: Water
Analysis Batch: 117436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	266.8		ug/L		107	45 - 141	7	21
Benzene	ND		50.0	54.46		ug/L		109	75 - 133	5	17
Bromobenzene	ND		50.0	58.14		ug/L		116	60 - 138	7	20
Bromochloromethane	ND		50.0	55.16		ug/L		110	67 - 139	2	17
Bromodichloromethane	ND		50.0	59.85		ug/L		120	70 - 140	5	18
Bromoform	ND		50.0	63.72		ug/L		127	42 - 147	10	16
Bromomethane	ND		50.0	63.35		ug/L		127	16 - 163	11	50
2-Butanone (MEK)	ND		250	259.8		ug/L		104	50 - 138	9	19
Carbon disulfide	ND		50.0	53.36		ug/L		107	48 - 152	2	21
Carbon tetrachloride	ND		50.0	64.24		ug/L		128	62 - 164	5	19
Chlorobenzene	ND		50.0	54.55		ug/L		109	80 - 129	2	14
Chlorodibromomethane	ND		50.0	57.25		ug/L		114	66 - 140	3	15
Chloroethane	ND		50.0	54.27		ug/L		109	58 - 137	4	20
Chloroform	ND		50.0	55.59		ug/L		111	66 - 138	3	18
Chloromethane	ND		50.0	56.63		ug/L		113	10 - 169	6	31
2-Chlorotoluene	ND		50.0	55.62		ug/L		111	67 - 138	5	17
4-Chlorotoluene	ND		50.0	55.98		ug/L		112	69 - 138	4	18
cis-1,2-Dichloroethene	ND		50.0	58.27		ug/L		117	68 - 138	3	17
cis-1,3-Dichloropropene	ND		50.0	54.62		ug/L		109	71 - 141	3	15
1,2-Dibromo-3-Chloropropane	ND		50.0	56.77		ug/L		114	52 - 126	2	24
1,2-Dibromoethane (EDB)	ND		50.0	52.09		ug/L		104	75 - 137	4	15
Dibromomethane	ND		50.0	55.12		ug/L		110	58 - 140	6	16
1,2-Dichlorobenzene	ND		50.0	55.48		ug/L		111	79 - 128	1	15
1,3-Dichlorobenzene	ND		50.0	56.18		ug/L		112	77 - 131	4	15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-38573-C-18 MSD
Matrix: Water
Analysis Batch: 117436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		50.0	54.66		ug/L		109	78 - 126	5	15
Dichlorodifluoromethane	ND		50.0	69.46	F	ug/L		139	40 - 127	3	18
1,1-Dichloroethane	ND		50.0	54.45		ug/L		109	71 - 139	4	17
1,2-Dichloroethane	ND		50.0	58.24		ug/L		116	64 - 136	5	17
1,1-Dichloroethene	ND		50.0	57.17		ug/L		114	70 - 142	5	17
1,2-Dichloropropane	ND		50.0	52.60		ug/L		105	67 - 131	5	17
1,3-Dichloropropane	ND		50.0	51.46		ug/L		103	72 - 134	4	14
2,2-Dichloropropane	ND		50.0	63.14		ug/L		126	37 - 175	4	18
1,1-Dichloropropene	ND		50.0	57.77		ug/L		116	76 - 139	4	17
Ethylbenzene	ND		50.0	57.40		ug/L		115	79 - 139	3	15
Hexachlorobutadiene	ND		50.0	59.46		ug/L		119	45 - 155	8	23
2-Hexanone	ND		250	268.7		ug/L		107	50 - 150	7	15
Isopropylbenzene	ND		50.0	61.63		ug/L		123	80 - 153	9	16
Methylene Chloride	ND		50.0	53.06		ug/L		99	64 - 139	4	17
4-Methyl-2-pentanone (MIBK)	ND		250	259.4		ug/L		104	50 - 147	7	17
Methyl tert-butyl ether	ND		50.0	56.13		ug/L		112	66 - 141	8	16
Naphthalene	ND		50.0	50.80		ug/L		102	55 - 140	5	26
n-Butylbenzene	ND		50.0	59.14		ug/L		118	66 - 141	0	18
N-Propylbenzene	ND		50.0	57.09		ug/L		114	69 - 142	5	17
p-Isopropyltoluene	ND		50.0	58.91		ug/L		118	71 - 137	4	16
sec-Butylbenzene	ND		50.0	58.87		ug/L		118	73 - 138	4	16
Styrene	ND		50.0	57.49		ug/L		115	61 - 148	2	24
tert-Butylbenzene	ND		50.0	58.34		ug/L		117	70 - 138	4	16
1,1,1,2-Tetrachloroethane	ND		50.0	58.15		ug/L		116	73 - 141	3	16
1,1,2,2-Tetrachloroethane	ND		50.0	51.74		ug/L		103	56 - 143	10	20
Tetrachloroethene	ND		50.0	57.67		ug/L		115	72 - 145	2	16
Toluene	ND		50.0	53.62		ug/L		107	75 - 136	1	15
trans-1,2-Dichloroethene	ND		50.0	55.53		ug/L		111	66 - 143	6	16
trans-1,3-Dichloropropene	ND		50.0	56.81		ug/L		114	59 - 135	4	14
1,2,3-Trichlorobenzene	ND		50.0	59.15		ug/L		118	55 - 138	8	25
1,2,4-Trichlorobenzene	ND		50.0	58.48		ug/L		117	60 - 136	4	19
1,1,1-Trichloroethane	ND		50.0	60.60		ug/L		121	76 - 149	3	17
1,1,2-Trichloroethane	ND		50.0	49.83		ug/L		100	74 - 134	4	15
Trichloroethene	ND		50.0	63.27		ug/L		127	73 - 144	5	17
Trichlorofluoromethane	ND		50.0	59.14		ug/L		118	58 - 139	5	18
1,2,3-Trichloropropane	ND		50.0	51.19		ug/L		102	53 - 144	8	19
1,2,4-Trimethylbenzene	ND		50.0	57.06		ug/L		114	69 - 136	3	16
1,3,5-Trimethylbenzene	ND		50.0	57.48		ug/L		115	69 - 139	4	17
Vinyl chloride	ND		50.0	56.62		ug/L		113	56 - 129	5	17
Xylenes, Total	ND		100	114.9		ug/L		115	74 - 141	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-118086/7
Matrix: Water
Analysis Batch: 118086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 20:51	1
Benzene	ND		1.00		ug/L			10/30/13 20:51	1
Bromobenzene	ND		1.00		ug/L			10/30/13 20:51	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 20:51	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 20:51	1
Bromoform	ND		1.00		ug/L			10/30/13 20:51	1
Bromomethane	ND		1.00		ug/L			10/30/13 20:51	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 20:51	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 20:51	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 20:51	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 20:51	1
Chloroethane	ND		1.00		ug/L			10/30/13 20:51	1
Chloroform	ND		1.00		ug/L			10/30/13 20:51	1
Chloromethane	ND		1.00		ug/L			10/30/13 20:51	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 20:51	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 20:51	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 20:51	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 20:51	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 20:51	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 20:51	1
Dibromomethane	ND		1.00		ug/L			10/30/13 20:51	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 20:51	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 20:51	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 20:51	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 20:51	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 20:51	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 20:51	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 20:51	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 20:51	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 20:51	1
2-Hexanone	ND		5.00		ug/L			10/30/13 20:51	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 20:51	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 20:51	1
Naphthalene	ND		5.00		ug/L			10/30/13 20:51	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 20:51	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
Styrene	ND		1.00		ug/L			10/30/13 20:51	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 20:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-118086/7
Matrix: Water
Analysis Batch: 118086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 20:51	1
Tetrachloroethene	ND		1.00		ug/L			10/30/13 20:51	1
Toluene	ND		1.00		ug/L			10/30/13 20:51	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 20:51	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 20:51	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 20:51	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 20:51	1
Trichloroethene	ND		1.00		ug/L			10/30/13 20:51	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 20:51	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 20:51	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 20:51	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 20:51	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 20:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*10/30/13 20:51*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/13 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*10/30/13 20:51*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/30/13 20:51*	*1*

Lab Sample ID: LCS 490-118086/3
Matrix: Water
Analysis Batch: 118086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	294.2		ug/L		118	54 - 145
Benzene	50.0	51.33		ug/L		103	80 - 121
Bromobenzene	50.0	50.25		ug/L		100	68 - 130
Bromochloromethane	50.0	45.89		ug/L		92	78 - 129
Bromodichloromethane	50.0	52.33		ug/L		105	75 - 129
Bromoform	50.0	53.16		ug/L		106	46 - 145
Bromomethane	50.0	53.09		ug/L		106	41 - 150
2-Butanone (MEK)	250	261.6		ug/L		105	62 - 133
Carbon disulfide	50.0	54.25		ug/L		109	77 - 126
Carbon tetrachloride	50.0	51.81		ug/L		104	64 - 147
Chlorobenzene	50.0	48.42		ug/L		97	80 - 120
Chlorodibromomethane	50.0	49.22		ug/L		98	69 - 133
Chloroethane	50.0	56.49		ug/L		113	72 - 120
Chloroform	50.0	49.25		ug/L		99	73 - 129
Chloromethane	50.0	54.81		ug/L		110	12 - 150
2-Chlorotoluene	50.0	51.02		ug/L		102	75 - 126
4-Chlorotoluene	50.0	50.68		ug/L		101	75 - 130
cis-1,2-Dichloroethene	50.0	55.49		ug/L		111	76 - 125
cis-1,3-Dichloropropene	50.0	52.96		ug/L		106	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	52.01		ug/L		104	54 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-118086/3
Matrix: Water
Analysis Batch: 118086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	50.0	49.06		ug/L		98	80 - 129
Dibromomethane	50.0	50.17		ug/L		100	71 - 125
1,2-Dichlorobenzene	50.0	47.00		ug/L		94	80 - 121
1,3-Dichlorobenzene	50.0	47.47		ug/L		95	80 - 122
1,4-Dichlorobenzene	50.0	46.25		ug/L		92	80 - 120
Dichlorodifluoromethane	50.0	59.45		ug/L		119	37 - 127
1,1-Dichloroethane	50.0	52.16		ug/L		104	78 - 125
1,2-Dichloroethane	50.0	49.76		ug/L		100	77 - 121
1,1-Dichloroethene	50.0	52.50		ug/L		105	79 - 124
1,2-Dichloropropane	50.0	53.15		ug/L		106	75 - 120
1,3-Dichloropropane	50.0	50.99		ug/L		102	80 - 125
2,2-Dichloropropane	50.0	53.14		ug/L		106	43 - 161
1,1-Dichloropropene	50.0	52.95		ug/L		106	80 - 122
Ethylbenzene	50.0	52.61		ug/L		105	80 - 130
Hexachlorobutadiene	50.0	48.11		ug/L		96	49 - 146
2-Hexanone	250	301.3		ug/L		121	60 - 142
Isopropylbenzene	50.0	52.72		ug/L		105	80 - 141
Methylene Chloride	50.0	47.43		ug/L		95	79 - 123
4-Methyl-2-pentanone (MIBK)	250	283.1		ug/L		113	60 - 137
Methyl tert-butyl ether	50.0	51.44		ug/L		103	72 - 133
Naphthalene	50.0	46.28		ug/L		93	62 - 138
n-Butylbenzene	50.0	50.75		ug/L		101	68 - 132
N-Propylbenzene	50.0	52.23		ug/L		104	75 - 129
p-Isopropyltoluene	50.0	51.19		ug/L		102	75 - 128
sec-Butylbenzene	50.0	51.16		ug/L		102	76 - 128
Styrene	50.0	51.64		ug/L		103	80 - 127
tert-Butylbenzene	50.0	50.80		ug/L		102	76 - 126
1,1,1,2-Tetrachloroethane	50.0	49.86		ug/L		100	74 - 135
1,1,2,2-Tetrachloroethane	50.0	51.99		ug/L		104	69 - 131
Tetrachloroethene	50.0	47.81		ug/L		96	80 - 126
Toluene	50.0	50.41		ug/L		101	80 - 126
trans-1,2-Dichloroethene	50.0	53.04		ug/L		106	79 - 126
trans-1,3-Dichloropropene	50.0	52.83		ug/L		106	63 - 134
1,2,3-Trichlorobenzene	50.0	52.76		ug/L		106	62 - 133
1,2,4-Trichlorobenzene	50.0	49.55		ug/L		99	63 - 133
1,1,1-Trichloroethane	50.0	51.13		ug/L		102	78 - 135
1,1,2-Trichloroethane	50.0	47.42		ug/L		95	80 - 124
Trichloroethene	50.0	49.93		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	49.71		ug/L		99	65 - 124
1,2,3-Trichloropropane	50.0	49.02		ug/L		98	70 - 131
1,2,4-Trimethylbenzene	50.0	50.62		ug/L		101	77 - 126
1,3,5-Trimethylbenzene	50.0	50.62		ug/L		101	77 - 127
Vinyl chloride	50.0	55.98		ug/L		112	68 - 120
Xylenes, Total	100	104.5		ug/L		105	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-118086/3
Matrix: Water
Analysis Batch: 118086

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-118086/4
Matrix: Water
Analysis Batch: 118086

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	308.5		ug/L		123	54 - 145	5	21
Benzene	50.0	51.95		ug/L		104	80 - 121	1	17
Bromobenzene	50.0	53.23		ug/L		106	68 - 130	6	20
Bromochloromethane	50.0	46.91		ug/L		94	78 - 129	2	17
Bromodichloromethane	50.0	53.51		ug/L		107	75 - 129	2	18
Bromoform	50.0	54.46		ug/L		109	46 - 145	2	16
Bromomethane	50.0	53.05		ug/L		106	41 - 150	0	50
2-Butanone (MEK)	250	275.7		ug/L		110	62 - 133	5	19
Carbon disulfide	50.0	55.06		ug/L		110	77 - 126	1	21
Carbon tetrachloride	50.0	52.62		ug/L		105	64 - 147	2	19
Chlorobenzene	50.0	49.92		ug/L		100	80 - 120	3	14
Chlorodibromomethane	50.0	51.05		ug/L		102	69 - 133	4	15
Chloroethane	50.0	57.73		ug/L		115	72 - 120	2	20
Chloroform	50.0	50.01		ug/L		100	73 - 129	2	18
Chloromethane	50.0	56.24		ug/L		112	12 - 150	3	31
2-Chlorotoluene	50.0	53.18		ug/L		106	75 - 126	4	17
4-Chlorotoluene	50.0	52.97		ug/L		106	75 - 130	4	18
cis-1,2-Dichloroethene	50.0	56.60		ug/L		113	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	54.73		ug/L		109	74 - 140	3	15
1,2-Dibromo-3-Chloropropane	50.0	55.04		ug/L		110	54 - 125	6	24
1,2-Dibromoethane (EDB)	50.0	51.06		ug/L		102	80 - 129	4	15
Dibromomethane	50.0	51.52		ug/L		103	71 - 125	3	16
1,2-Dichlorobenzene	50.0	50.29		ug/L		101	80 - 121	7	15
1,3-Dichlorobenzene	50.0	50.91		ug/L		102	80 - 122	7	15
1,4-Dichlorobenzene	50.0	49.98		ug/L		100	80 - 120	8	15
Dichlorodifluoromethane	50.0	59.43		ug/L		119	37 - 127	0	18
1,1-Dichloroethane	50.0	52.99		ug/L		106	78 - 125	2	17
1,2-Dichloroethane	50.0	50.93		ug/L		102	77 - 121	2	17
1,1-Dichloroethene	50.0	52.37		ug/L		105	79 - 124	0	17
1,2-Dichloropropane	50.0	54.78		ug/L		110	75 - 120	3	17
1,3-Dichloropropane	50.0	52.57		ug/L		105	80 - 125	3	14
2,2-Dichloropropane	50.0	54.95		ug/L		110	43 - 161	3	18
1,1-Dichloropropene	50.0	53.70		ug/L		107	80 - 122	1	17
Ethylbenzene	50.0	54.00		ug/L		108	80 - 130	3	15
Hexachlorobutadiene	50.0	52.01		ug/L		104	49 - 146	8	23
2-Hexanone	250	310.7		ug/L		124	60 - 142	3	15
Isopropylbenzene	50.0	52.47		ug/L		105	80 - 141	0	16
Methylene Chloride	50.0	48.10		ug/L		96	79 - 123	1	17
4-Methyl-2-pentanone (MIBK)	250	294.9		ug/L		118	60 - 137	4	17
Methyl tert-butyl ether	50.0	52.45		ug/L		105	72 - 133	2	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-118086/4
Matrix: Water
Analysis Batch: 118086

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	50.0	49.29		ug/L		99	62 - 138	6	26
n-Butylbenzene	50.0	53.96		ug/L		108	68 - 132	6	18
N-Propylbenzene	50.0	54.38		ug/L		109	75 - 129	4	17
p-Isopropyltoluene	50.0	53.70		ug/L		107	75 - 128	5	16
sec-Butylbenzene	50.0	53.87		ug/L		108	76 - 128	5	16
Styrene	50.0	52.95		ug/L		106	80 - 127	3	24
tert-Butylbenzene	50.0	52.91		ug/L		106	76 - 126	4	16
1,1,1,2-Tetrachloroethane	50.0	51.36		ug/L		103	74 - 135	3	16
1,1,2,2-Tetrachloroethane	50.0	55.14		ug/L		110	69 - 131	6	20
Tetrachloroethene	50.0	49.23		ug/L		98	80 - 126	3	16
Toluene	50.0	51.52		ug/L		103	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	53.68		ug/L		107	79 - 126	1	16
trans-1,3-Dichloropropene	50.0	55.27		ug/L		111	63 - 134	5	14
1,2,3-Trichlorobenzene	50.0	57.03		ug/L		114	62 - 133	8	25
1,2,4-Trichlorobenzene	50.0	53.56		ug/L		107	63 - 133	8	19
1,1,1-Trichloroethane	50.0	51.48		ug/L		103	78 - 135	1	17
1,1,2-Trichloroethane	50.0	49.07		ug/L		98	80 - 124	3	15
Trichloroethene	50.0	50.36		ug/L		101	80 - 123	1	17
Trichlorofluoromethane	50.0	56.52		ug/L		113	65 - 124	13	18
1,2,3-Trichloropropane	50.0	51.09		ug/L		102	70 - 131	4	19
1,2,4-Trimethylbenzene	50.0	52.85		ug/L		106	77 - 126	4	16
1,3,5-Trimethylbenzene	50.0	52.97		ug/L		106	77 - 127	5	17
Vinyl chloride	50.0	57.04		ug/L		114	68 - 120	2	17
Xylenes, Total	100	106.7		ug/L		107	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 490-118088/7
Matrix: Water
Analysis Batch: 118088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.00		ug/L			10/30/13 16:38	1
Benzene	ND		1.00		ug/L			10/30/13 16:38	1
Bromobenzene	ND		1.00		ug/L			10/30/13 16:38	1
Bromochloromethane	ND		1.00		ug/L			10/30/13 16:38	1
Bromodichloromethane	ND		1.00		ug/L			10/30/13 16:38	1
Bromoform	ND		1.00		ug/L			10/30/13 16:38	1
Bromomethane	ND		1.00		ug/L			10/30/13 16:38	1
2-Butanone (MEK)	ND		50.0		ug/L			10/30/13 16:38	1
Carbon disulfide	ND		1.00		ug/L			10/30/13 16:38	1
Carbon tetrachloride	ND		1.00		ug/L			10/30/13 16:38	1
Chlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
Chlorodibromomethane	ND		1.00		ug/L			10/30/13 16:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-118088/7
Matrix: Water
Analysis Batch: 118088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.00		ug/L			10/30/13 16:38	1
Chloroform	ND		1.00		ug/L			10/30/13 16:38	1
Chloromethane	ND		1.00		ug/L			10/30/13 16:38	1
2-Chlorotoluene	ND		1.00		ug/L			10/30/13 16:38	1
4-Chlorotoluene	ND		1.00		ug/L			10/30/13 16:38	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 16:38	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 16:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			10/30/13 16:38	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			10/30/13 16:38	1
Dibromomethane	ND		1.00		ug/L			10/30/13 16:38	1
1,2-Dichlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,3-Dichlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,4-Dichlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
Dichlorodifluoromethane	ND		1.00		ug/L			10/30/13 16:38	1
1,1-Dichloroethane	ND		1.00		ug/L			10/30/13 16:38	1
1,2-Dichloroethane	ND		1.00		ug/L			10/30/13 16:38	1
1,1-Dichloroethene	ND		1.00		ug/L			10/30/13 16:38	1
1,2-Dichloropropane	ND		1.00		ug/L			10/30/13 16:38	1
1,3-Dichloropropane	ND		1.00		ug/L			10/30/13 16:38	1
2,2-Dichloropropane	ND		1.00		ug/L			10/30/13 16:38	1
1,1-Dichloropropene	ND		1.00		ug/L			10/30/13 16:38	1
Ethylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
Hexachlorobutadiene	ND		2.00		ug/L			10/30/13 16:38	1
2-Hexanone	ND		5.00		ug/L			10/30/13 16:38	1
Isopropylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
Methylene Chloride	ND		5.00		ug/L			10/30/13 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			10/30/13 16:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			10/30/13 16:38	1
Naphthalene	ND		5.00		ug/L			10/30/13 16:38	1
n-Butylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
N-Propylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
p-Isopropyltoluene	ND		1.00		ug/L			10/30/13 16:38	1
sec-Butylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
Styrene	ND		1.00		ug/L			10/30/13 16:38	1
tert-Butylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 16:38	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			10/30/13 16:38	1
Tetrachloroethene	ND		1.00		ug/L			10/30/13 16:38	1
Toluene	ND		1.00		ug/L			10/30/13 16:38	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			10/30/13 16:38	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			10/30/13 16:38	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,1,1-Trichloroethane	ND		1.00		ug/L			10/30/13 16:38	1
1,1,2-Trichloroethane	ND		1.00		ug/L			10/30/13 16:38	1
Trichloroethene	ND		1.00		ug/L			10/30/13 16:38	1
Trichlorofluoromethane	ND		1.00		ug/L			10/30/13 16:38	1
1,2,3-Trichloropropane	ND		1.00		ug/L			10/30/13 16:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-118088/7
Matrix: Water
Analysis Batch: 118088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			10/30/13 16:38	1
Vinyl chloride	ND		1.00		ug/L			10/30/13 16:38	1
Xylenes, Total	ND		2.00		ug/L			10/30/13 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/30/13 16:38*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/30/13 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/30/13 16:38*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/13 16:38*	*1*

Lab Sample ID: LCS 490-118088/3
Matrix: Water
Analysis Batch: 118088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	254.2		ug/L		102	54 - 145
Benzene	50.0	47.91		ug/L		96	80 - 121
Bromobenzene	50.0	40.59		ug/L		81	68 - 130
Bromochloromethane	50.0	48.12		ug/L		96	78 - 129
Bromodichloromethane	50.0	51.03		ug/L		102	75 - 129
Bromoform	50.0	50.11		ug/L		100	46 - 145
Bromomethane	50.0	47.82		ug/L		96	41 - 150
2-Butanone (MEK)	250	239.5		ug/L		96	62 - 133
Carbon disulfide	50.0	50.22		ug/L		100	77 - 126
Carbon tetrachloride	50.0	57.03		ug/L		114	64 - 147
Chlorobenzene	50.0	46.81		ug/L		94	80 - 120
Chlorodibromomethane	50.0	49.54		ug/L		99	69 - 133
Chloroethane	50.0	50.15		ug/L		100	72 - 120
Chloroform	50.0	51.32		ug/L		103	73 - 129
Chloromethane	50.0	35.13		ug/L		70	12 - 150
2-Chlorotoluene	50.0	42.47		ug/L		85	75 - 126
4-Chlorotoluene	50.0	43.71		ug/L		87	75 - 130
cis-1,2-Dichloroethene	50.0	50.65		ug/L		101	76 - 125
cis-1,3-Dichloropropene	50.0	46.56		ug/L		93	74 - 140
1,2-Dibromo-3-Chloropropane	50.0	45.62		ug/L		91	54 - 125
1,2-Dibromoethane (EDB)	50.0	46.46		ug/L		93	80 - 129
Dibromomethane	50.0	47.65		ug/L		95	71 - 125
1,2-Dichlorobenzene	50.0	44.55		ug/L		89	80 - 121
1,3-Dichlorobenzene	50.0	44.49		ug/L		89	80 - 122
1,4-Dichlorobenzene	50.0	44.14		ug/L		88	80 - 120
Dichlorodifluoromethane	50.0	62.49		ug/L		125	37 - 127
1,1-Dichloroethane	50.0	47.86		ug/L		96	78 - 125
1,2-Dichloroethane	50.0	48.82		ug/L		98	77 - 121
1,1-Dichloroethene	50.0	51.58		ug/L		103	79 - 124
1,2-Dichloropropane	50.0	44.55		ug/L		89	75 - 120
1,3-Dichloropropane	50.0	44.29		ug/L		89	80 - 125
2,2-Dichloropropane	50.0	49.02		ug/L		98	43 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-118088/3
Matrix: Water
Analysis Batch: 118088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	49.48		ug/L		99	80 - 122
Ethylbenzene	50.0	46.23		ug/L		92	80 - 130
Hexachlorobutadiene	50.0	46.47		ug/L		93	49 - 146
2-Hexanone	250	208.4		ug/L		83	60 - 142
Isopropylbenzene	50.0	45.90		ug/L		92	80 - 141
Methylene Chloride	50.0	46.91		ug/L		94	79 - 123
4-Methyl-2-pentanone (MIBK)	250	212.3		ug/L		85	60 - 137
Methyl tert-butyl ether	50.0	47.30		ug/L		95	72 - 133
Naphthalene	50.0	47.21		ug/L		94	62 - 138
n-Butylbenzene	50.0	44.46		ug/L		89	68 - 132
N-Propylbenzene	50.0	43.43		ug/L		87	75 - 129
p-Isopropyltoluene	50.0	45.45		ug/L		91	75 - 128
sec-Butylbenzene	50.0	44.57		ug/L		89	76 - 128
Styrene	50.0	45.21		ug/L		90	80 - 127
tert-Butylbenzene	50.0	44.12		ug/L		88	76 - 126
1,1,1,2-Tetrachloroethane	50.0	48.76		ug/L		98	74 - 135
1,1,2,2-Tetrachloroethane	50.0	42.63		ug/L		85	69 - 131
Tetrachloroethene	50.0	46.72		ug/L		93	80 - 126
Toluene	50.0	46.77		ug/L		94	80 - 126
trans-1,2-Dichloroethene	50.0	47.99		ug/L		96	79 - 126
trans-1,3-Dichloropropene	50.0	45.33		ug/L		91	63 - 134
1,2,3-Trichlorobenzene	50.0	46.33		ug/L		93	62 - 133
1,2,4-Trichlorobenzene	50.0	45.94		ug/L		92	63 - 133
1,1,1-Trichloroethane	50.0	51.70		ug/L		103	78 - 135
1,1,2-Trichloroethane	50.0	44.06		ug/L		88	80 - 124
Trichloroethene	50.0	50.15		ug/L		100	80 - 123
Trichlorofluoromethane	50.0	55.18		ug/L		110	65 - 124
1,2,3-Trichloropropane	50.0	43.97		ug/L		88	70 - 131
1,2,4-Trimethylbenzene	50.0	44.14		ug/L		88	77 - 126
1,3,5-Trimethylbenzene	50.0	44.11		ug/L		88	77 - 127
Vinyl chloride	50.0	53.71		ug/L		107	68 - 120
Xylenes, Total	100	89.38		ug/L		89	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 490-118088/4
Matrix: Water
Analysis Batch: 118088

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	234.6		ug/L		94	54 - 145	8	21
Benzene	50.0	47.64		ug/L		95	80 - 121	1	17
Bromobenzene	50.0	38.79		ug/L		78	68 - 130	5	20
Bromochloromethane	50.0	47.47		ug/L		95	78 - 129	1	17

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-118088/4
Matrix: Water
Analysis Batch: 118088

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	50.0	50.79		ug/L		102	75 - 129	0	18
Bromoform	50.0	49.21		ug/L		98	46 - 145	2	16
Bromomethane	50.0	45.60		ug/L		91	41 - 150	5	50
2-Butanone (MEK)	250	232.4		ug/L		93	62 - 133	3	19
Carbon disulfide	50.0	48.82		ug/L		98	77 - 126	3	21
Carbon tetrachloride	50.0	55.86		ug/L		112	64 - 147	2	19
Chlorobenzene	50.0	45.54		ug/L		91	80 - 120	3	14
Chlorodibromomethane	50.0	48.30		ug/L		97	69 - 133	3	15
Chloroethane	50.0	49.41		ug/L		99	72 - 120	1	20
Chloroform	50.0	51.10		ug/L		102	73 - 129	0	18
Chloromethane	50.0	34.83		ug/L		70	12 - 150	1	31
2-Chlorotoluene	50.0	41.28		ug/L		83	75 - 126	3	17
4-Chlorotoluene	50.0	41.87		ug/L		84	75 - 130	4	18
cis-1,2-Dichloroethene	50.0	49.89		ug/L		100	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	45.56		ug/L		91	74 - 140	2	15
1,2-Dibromo-3-Chloropropane	50.0	43.01		ug/L		86	54 - 125	6	24
1,2-Dibromoethane (EDB)	50.0	44.32		ug/L		89	80 - 129	5	15
Dibromomethane	50.0	47.12		ug/L		94	71 - 125	1	16
1,2-Dichlorobenzene	50.0	42.80		ug/L		86	80 - 121	4	15
1,3-Dichlorobenzene	50.0	43.10		ug/L		86	80 - 122	3	15
1,4-Dichlorobenzene	50.0	44.14		ug/L		88	80 - 120	0	15
Dichlorodifluoromethane	50.0	63.07		ug/L		126	37 - 127	1	18
1,1-Dichloroethane	50.0	46.98		ug/L		94	78 - 125	2	17
1,2-Dichloroethane	50.0	47.57		ug/L		95	77 - 121	3	17
1,1-Dichloroethene	50.0	51.30		ug/L		103	79 - 124	1	17
1,2-Dichloropropane	50.0	43.85		ug/L		88	75 - 120	2	17
1,3-Dichloropropane	50.0	42.80		ug/L		86	80 - 125	3	14
2,2-Dichloropropane	50.0	48.09		ug/L		96	43 - 161	2	18
1,1-Dichloropropene	50.0	48.47		ug/L		97	80 - 122	2	17
Ethylbenzene	50.0	45.15		ug/L		90	80 - 130	2	15
Hexachlorobutadiene	50.0	44.33		ug/L		89	49 - 146	5	23
2-Hexanone	250	201.8		ug/L		81	60 - 142	3	15
Isopropylbenzene	50.0	45.35		ug/L		91	80 - 141	1	16
Methylene Chloride	50.0	46.15		ug/L		92	79 - 123	2	17
4-Methyl-2-pentanone (MIBK)	250	204.0		ug/L		82	60 - 137	4	17
Methyl tert-butyl ether	50.0	46.29		ug/L		93	72 - 133	2	16
Naphthalene	50.0	44.78		ug/L		90	62 - 138	5	26
n-Butylbenzene	50.0	42.79		ug/L		86	68 - 132	4	18
N-Propylbenzene	50.0	42.05		ug/L		84	75 - 129	3	17
p-Isopropyltoluene	50.0	44.13		ug/L		88	75 - 128	3	16
sec-Butylbenzene	50.0	43.25		ug/L		86	76 - 128	3	16
Styrene	50.0	44.59		ug/L		89	80 - 127	1	24
tert-Butylbenzene	50.0	42.85		ug/L		86	76 - 126	3	16
1,1,1,2-Tetrachloroethane	50.0	47.72		ug/L		95	74 - 135	2	16
1,1,2,2-Tetrachloroethane	50.0	39.75		ug/L		79	69 - 131	7	20
Tetrachloroethene	50.0	45.21		ug/L		90	80 - 126	3	16
Toluene	50.0	45.32		ug/L		91	80 - 126	3	15
trans-1,2-Dichloroethene	50.0	47.30		ug/L		95	79 - 126	1	16

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-118088/4
Matrix: Water
Analysis Batch: 118088

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	50.0	44.38		ug/L		89	63 - 134	2	14
1,2,3-Trichlorobenzene	50.0	44.06		ug/L		88	62 - 133	5	25
1,2,4-Trichlorobenzene	50.0	44.04		ug/L		88	63 - 133	4	19
1,1,1-Trichloroethane	50.0	51.54		ug/L		103	78 - 135	0	17
1,1,2-Trichloroethane	50.0	43.07		ug/L		86	80 - 124	2	15
Trichloroethene	50.0	50.08		ug/L		100	80 - 123	0	17
Trichlorofluoromethane	50.0	54.13		ug/L		108	65 - 124	2	18
1,2,3-Trichloropropane	50.0	42.02		ug/L		84	70 - 131	5	19
1,2,4-Trimethylbenzene	50.0	42.20		ug/L		84	77 - 126	4	16
1,3,5-Trimethylbenzene	50.0	42.60		ug/L		85	77 - 127	3	17
Vinyl chloride	50.0	52.57		ug/L		105	68 - 120	2	17
Xylenes, Total	100	87.86		ug/L		88	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

GC/MS VOA

Prep Batch: 117230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38669-A-1-A MS	Matrix Spike	Total/NA	Water	5030B	
490-38669-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	5030B	

Analysis Batch: 117436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38573-B-18 MS	Matrix Spike	Total/NA	Water	8260B	
490-38573-C-18 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-38586-1	TB-01-102313	Total/NA	Water	8260B	
490-38586-2	MCA-5-102113	Total/NA	Water	8260B	
490-38586-3	M&A-104-102113	Total/NA	Water	8260B	
490-38586-5	M&A-112-102113	Total/NA	Water	8260B	
LCS 490-117436/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-117436/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-117436/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 118086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38586-2	MCA-5-102113	Total/NA	Water	8260B	
490-38586-2	MCA-5-102113	Total/NA	Water	8260B	
490-38586-4	M&A-111-102113	Total/NA	Water	8260B	
490-38669-A-1-A MS	Matrix Spike	Total/NA	Water	8260B	117230
490-38669-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	117230
LCS 490-118086/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-118086/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-118086/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 118088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-38586-3	M&A-104-102113	Total/NA	Water	8260B	
490-38586-3	M&A-104-102113	Total/NA	Water	8260B	
490-38586-4	M&A-111-102113	Total/NA	Water	8260B	
490-38586-5	M&A-112-102113	Total/NA	Water	8260B	
490-38586-6	M&A-115-102213	Total/NA	Water	8260B	
490-38586-7	M&A-116-102213	Total/NA	Water	8260B	
490-38586-8	M&A-122-102213	Total/NA	Water	8260B	
490-38586-9	M&A-126-102213	Total/NA	Water	8260B	
LCS 490-118088/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-118088/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-118088/7	Method Blank	Total/NA	Water	8260B	

Client Sample ID: TB-01-102313 — **Lab Sample ID: 490-38586-1**
Date Collected: 10/23/13 00:01 — Matrix: Water
Date Received: 10/24/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	117436	10/29/13 01:40	BJM	TAL NSH

Client Sample ID: MCA-5-102113 — **Lab Sample ID: 490-38586-2**
Date Collected: 10/21/13 15:00 — Matrix: Water
Date Received: 10/24/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	117436	10/29/13 05:49	BJM	TAL NSH
Total/NA	Analysis	8260B		100	10 mL	10 mL	118086	10/30/13 23:11	BJM	TAL NSH
Total/NA	Analysis	8260B		1000	10 mL	10 mL	118086	10/30/13 23:40	BJM	TAL NSH

Client Sample ID: M&A-104-102113 — **Lab Sample ID: 490-38586-3**
Date Collected: 10/21/13 15:55 — Matrix: Water
Date Received: 10/24/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	117436	10/29/13 06:17	BJM	TAL NSH
Total/NA	Analysis	8260B		100	10 mL	10 mL	118088	10/31/13 00:33	BJM	TAL NSH
Total/NA	Analysis	8260B		5000	10 mL	10 mL	118088	10/31/13 01:28	BJM	TAL NSH

Client Sample ID: M&A-111-102113 — **Lab Sample ID: 490-38586-4**
Date Collected: 10/21/13 17:55 — Matrix: Water
Date Received: 10/24/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	118086	10/30/13 22:15	BJM	TAL NSH
Total/NA	Analysis	8260B		20	10 mL	10 mL	118088	10/31/13 00:05	BJM	TAL NSH

Client Sample ID: M&A-112-102113 — **Lab Sample ID: 490-38586-5**
Date Collected: 10/21/13 15:20 — Matrix: Water
Date Received: 10/24/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	117436	10/29/13 07:13	BJM	TAL NSH
Total/NA	Analysis	8260B		50	10 mL	10 mL	118088	10/30/13 23:37	BJM	TAL NSH

Lab Chronicle

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Client Sample ID: M&A-115-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	118088	10/30/13 17:06	BJM	TAL NSH

Client Sample ID: M&A-116-102213
Date Collected: 10/22/13 09:15
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	118088	10/30/13 17:34	BJM	TAL NSH

Client Sample ID: M&A-122-102213
Date Collected: 10/22/13 13:55
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	118088	10/30/13 18:02	BJM	TAL NSH

Client Sample ID: M&A-126-102213
Date Collected: 10/22/13 10:20
Date Received: 10/24/13 08:40

Lab Sample ID: 490-38586-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	118088	10/30/13 18:30	BJM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote-SemiAnnual Event

TestAmerica Job ID: 490-38586-1
SDG: 1998002.326, Task 004 HTB

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13 *
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13 *
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13 *
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13 *
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-38586 Chain of Custody

Cooler Received/Opened On: 10/24/2013 @0840

1. Tracking # 5107 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. 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) AT

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) ELA

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) ELA

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) ELA

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

12/24/2013

Client Information	Sampler: Hunter Charonnat	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-16813-6990.1
Client Contact: Christopher Mabbett	Phone:	E-Mail: ken.hayes@testamericainc.com		Page: Page 1 of 2
Company: Mabbett & Associates, Inc.				Job #:
Address: 5 Alfred Circle	Due Date Requested:			
City: Bedford	TAT Requested (days):			
State, Zip: MA, 01730				
Phone: 781-275-6050	PO #: Purchase Order Requested			
Email: cmabbett@mabbett.com	WO #:			
Project Name: Bodycote-SemiAnnual Event	Project #: 49002697			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-01-102313	10-23-13	12:00	G	Water	N	N	X		
MEA-4-102113	10-21-13	15:00	G	Water	N	N	X		Loc: 490
MtA-104-102113	10-21-13	15:55	G	Water	N	N	X		38586
MtA-111-102113	10-21-13	17:55	G	Water	N	N	X		
MtA-112-102113	10-21-13	15:20	G	Water	N	N	X		
MtA-115-102213	10-22-13	9:15	G	Water	N	N	X		
MtA-116-102213	10-22-13	9:15	G	Water	N	N	X		
MtA-122-102213	10-22-13	13:55	G	Water	N	N	X		
MtA-126-102213	10-22-13	10:20	G	Water	N	N	X		
				Water					
				Water					

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx 5712 0301 5107			
Relinquished by:	Date/Time: 10-23-13, 12:00	Company	Received by:	Date/Time: 10-24-13 8:40	Company TAN	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.9

Login Sample Receipt Checklist

Client: Mabbett & Associates, Inc.

Job Number: 490-38586-1
SDG Number: 1998002.326, Task 004 HTB

Login Number: 38586
List Number: 1
Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-50034-1
TestAmerica SDG: 1998002.329, Task 004 HTB
Client Project/Site: Bodycote Thermal Processing

For:
Mabbett & Associates, Inc.
5 Alfred Circle
Bedford, Massachusetts 01730

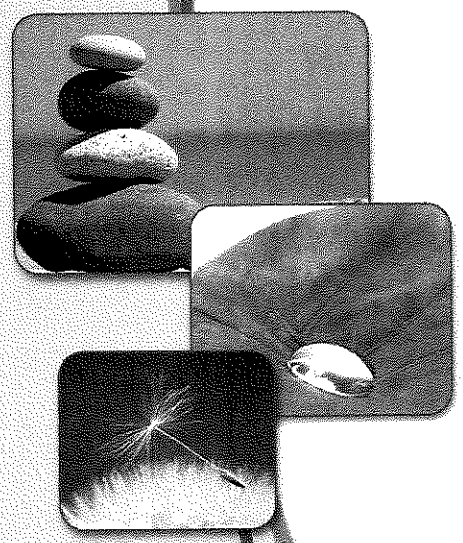
Attn: Christopher Mabbett

Heather Baker

Authorized for release by:
4/10/2014 12:58:09 PM
Heather Baker, Project Manager I
(615)301-5043
heather.baker@testamericainc.com

Designee for

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com



LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-50034-1	TB-02-040114	Water	04/01/14 07:30	04/03/14 07:15
490-50034-2	MCA-5-040114	Water	04/01/14 14:10	04/03/14 07:15
490-50034-3	M&A-104-040114	Water	04/01/14 11:50	04/03/14 07:15
490-50034-4	M&A-111-040114	Water	04/01/14 15:00	04/03/14 07:15
490-50034-5	M&A-112-040214	Water	04/02/14 09:15	04/03/14 07:15
490-50034-6	M&A-115-040214	Water	04/02/14 08:30	04/03/14 07:15
490-50034-7	M&A-116-040114	Water	04/01/14 09:25	04/03/14 07:15
490-50034-8	M&A-122-040214	Water	04/02/14 08:00	04/03/14 07:15
490-50034-9	M&A-126-040114	Water	04/01/14 16:45	04/03/14 07:15
490-50034-10	FD-HTB-040114	Water	04/01/14 17:20	04/03/14 07:15

Job ID: 490-50034-1

Laboratory: TestAmerica Nashville

4

Narrative

Job Narrative
490-50034-1

Comments
No additional comments.

Receipt
The samples were received on 4/3/2014 7:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

GC/MS VOA
Method(s) 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: M&A-115-040214 (490-50034-6), MCA-5-040114 (490-50034-2).

No other analytical or quality issues were noted.

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

5

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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: TB-02-040114
Date Collected: 04/01/14 07:30
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/05/14 02:04	1
Benzene	ND		1.00		ug/L			04/05/14 02:04	1
Bromobenzene	ND		1.00		ug/L			04/05/14 02:04	1
Bromochloromethane	ND		1.00		ug/L			04/05/14 02:04	1
Bromodichloromethane	ND		1.00		ug/L			04/05/14 02:04	1
Bromoform	ND		1.00		ug/L			04/05/14 02:04	1
Bromomethane	ND		1.00		ug/L			04/05/14 02:04	1
2-Butanone (MEK)	ND		50.0		ug/L			04/05/14 02:04	1
Carbon disulfide	ND		1.00		ug/L			04/05/14 02:04	1
Carbon tetrachloride	ND		1.00		ug/L			04/05/14 02:04	1
Chlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
Chlorodibromomethane	ND		1.00		ug/L			04/05/14 02:04	1
Chloroethane	ND		1.00		ug/L			04/05/14 02:04	1
Chloroform	ND		1.00		ug/L			04/05/14 02:04	1
Chloromethane	ND		1.00		ug/L			04/05/14 02:04	1
2-Chlorotoluene	ND		1.00		ug/L			04/05/14 02:04	1
4-Chlorotoluene	ND		1.00		ug/L			04/05/14 02:04	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/05/14 02:04	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 02:04	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/05/14 02:04	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/05/14 02:04	1
Dibromomethane	ND		1.00		ug/L			04/05/14 02:04	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/05/14 02:04	1
1,1-Dichloroethane	ND		1.00		ug/L			04/05/14 02:04	1
1,2-Dichloroethane	ND		1.00		ug/L			04/05/14 02:04	1
1,1-Dichloroethene	ND		1.00		ug/L			04/05/14 02:04	1
1,2-Dichloropropane	ND		1.00		ug/L			04/05/14 02:04	1
1,3-Dichloropropane	ND		1.00		ug/L			04/05/14 02:04	1
2,2-Dichloropropane	ND		1.00		ug/L			04/05/14 02:04	1
1,1-Dichloropropene	ND		1.00		ug/L			04/05/14 02:04	1
Ethylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
Hexachlorobutadiene	ND		2.00		ug/L			04/05/14 02:04	1
2-Hexanone	ND		10.0		ug/L			04/05/14 02:04	1
Isopropylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
Methylene Chloride	ND		5.00		ug/L			04/05/14 02:04	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/05/14 02:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/05/14 02:04	1
Naphthalene	ND		5.00		ug/L			04/05/14 02:04	1
n-Butylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
N-Propylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
p-Isopropyltoluene	ND		1.00		ug/L			04/05/14 02:04	1
sec-Butylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
Styrene	ND		1.00		ug/L			04/05/14 02:04	1
tert-Butylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 02:04	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 02:04	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Client Sample ID: TB-02-040114
Date Collected: 04/01/14 07:30
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/05/14 02:04	1
Toluene	ND		1.00		ug/L			04/05/14 02:04	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/05/14 02:04	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 02:04	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/05/14 02:04	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/05/14 02:04	1
Trichloroethene	ND		1.00		ug/L			04/05/14 02:04	1
Trichlorofluoromethane	ND		1.00		ug/L			04/05/14 02:04	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/05/14 02:04	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/05/14 02:04	1
Vinyl chloride	ND		1.00		ug/L			04/05/14 02:04	1
Xylenes, Total	ND		3.00		ug/L			04/05/14 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/05/14 02:04*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/05/14 02:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/05/14 02:04*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/05/14 02:04*	*1*

Client Sample ID: MCA-5-040114
Date Collected: 04/01/14 14:10
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/05/14 04:46	1
Benzene	ND		1.00		ug/L			04/05/14 04:46	1
Bromobenzene	ND		1.00		ug/L			04/05/14 04:46	1
Bromochloromethane	ND		1.00		ug/L			04/05/14 04:46	1
Bromodichloromethane	ND		1.00		ug/L			04/05/14 04:46	1
Bromoform	ND		1.00		ug/L			04/05/14 04:46	1
Bromomethane	ND		1.00		ug/L			04/05/14 04:46	1
2-Butanone (MEK)	ND		50.0		ug/L			04/05/14 04:46	1
Carbon disulfide	ND		1.00		ug/L			04/05/14 04:46	1
Carbon tetrachloride	ND		1.00		ug/L			04/05/14 04:46	1
Chlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
Chlorodibromomethane	ND		1.00		ug/L			04/05/14 04:46	1
Chloroethane	ND		1.00		ug/L			04/05/14 04:46	1
Chloroform	ND		1.00		ug/L			04/05/14 04:46	1
Chloromethane	ND		1.00		ug/L			04/05/14 04:46	1
2-Chlorotoluene	ND		1.00		ug/L			04/05/14 04:46	1
4-Chlorotoluene	ND		1.00		ug/L			04/05/14 04:46	1
cis-1,2-Dichloroethene	18400		200		ug/L			04/08/14 17:22	200
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 04:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/05/14 04:46	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/05/14 04:46	1
Dibromomethane	ND		1.00		ug/L			04/05/14 04:46	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/05/14 04:46	1
1,1-Dichloroethane	ND		1.00		ug/L			04/05/14 04:46	1
1,2-Dichloroethane	ND		1.00		ug/L			04/05/14 04:46	1
1,1-Dichloroethene	94.3		1.00		ug/L			04/05/14 04:46	1
1,2-Dichloropropane	ND		1.00		ug/L			04/05/14 04:46	1
1,3-Dichloropropane	ND		1.00		ug/L			04/05/14 04:46	1
2,2-Dichloropropane	ND		1.00		ug/L			04/05/14 04:46	1
1,1-Dichloropropene	ND		1.00		ug/L			04/05/14 04:46	1
Ethylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
Hexachlorobutadiene	ND		2.00		ug/L			04/05/14 04:46	1
2-Hexanone	ND		10.0		ug/L			04/05/14 04:46	1
Isopropylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
Methylene Chloride	ND		5.00		ug/L			04/05/14 04:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/05/14 04:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/05/14 04:46	1
Naphthalene	ND		5.00		ug/L			04/05/14 04:46	1
n-Butylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
N-Propylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
p-Isopropyltoluene	ND		1.00		ug/L			04/05/14 04:46	1
sec-Butylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
Styrene	ND		1.00		ug/L			04/05/14 04:46	1
tert-Butylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 04:46	1

Client Sample ID: MCA-5-040114
Date Collected: 04/01/14 14:10
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	37.2		1.00		ug/L			04/05/14 04:46	1
Toluene	2.32		1.00		ug/L			04/05/14 04:46	1
trans-1,2-Dichloroethene	507		20.0		ug/L			04/08/14 16:55	20
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 04:46	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/05/14 04:46	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/05/14 04:46	1
Trichloroethene	36800		200		ug/L			04/08/14 17:22	200
Trichlorofluoromethane	ND		1.00		ug/L			04/05/14 04:46	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/05/14 04:46	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/05/14 04:46	1
Vinyl chloride	298		20.0		ug/L			04/08/14 16:55	20
Xylenes, Total	ND		3.00		ug/L			04/05/14 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/05/14 04:46*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/08/14 16:55*	*20*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/08/14 17:22*	*200*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/05/14 04:46*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/08/14 16:55*	*20*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/08/14 17:22*	*200*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*04/05/14 04:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/08/14 16:55*	*20*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*04/08/14 17:22*	*200*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/05/14 04:46*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/08/14 16:55*	*20*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/08/14 17:22*	*200*

Client Sample ID: M&A-104-040114
Date Collected: 04/01/14 11:50
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/05/14 05:12	1
Benzene	**2.02**		1.00		ug/L			04/05/14 05:12	1
Bromobenzene	ND		1.00		ug/L			04/05/14 05:12	1
Bromochloromethane	ND		1.00		ug/L			04/05/14 05:12	1
Bromodichloromethane	ND		1.00		ug/L			04/05/14 05:12	1
Bromoform	ND		1.00		ug/L			04/05/14 05:12	1
Bromomethane	ND		1.00		ug/L			04/05/14 05:12	1
2-Butanone (MEK)	ND		50.0		ug/L			04/05/14 05:12	1
Carbon disulfide	ND		1.00		ug/L			04/05/14 05:12	1
Carbon tetrachloride	ND		1.00		ug/L			04/05/14 05:12	1
Chlorobenzene	ND		1.00		ug/L			04/05/14 05:12	1
Chlorodibromomethane	ND		1.00		ug/L			04/05/14 05:12	1
Chloroethane	ND		1.00		ug/L			04/05/14 05:12	1
Chloroform	ND		1.00		ug/L			04/05/14 05:12	1
Chloromethane	ND		1.00		ug/L			04/05/14 05:12	1
2-Chlorotoluene	ND		1.00		ug/L			04/05/14 05:12	1
4-Chlorotoluene	ND		1.00		ug/L			04/05/14 05:12	1
cis-1,2-Dichloroethene	**42700**		2000		ug/L			04/08/14 18:16	2000
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 05:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/05/14 05:12	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/05/14 05:12	1
Dibromomethane	ND		1.00		ug/L			04/05/14 05:12	1
1,2-Dichlorobenzene	**1.19**		1.00		ug/L			04/05/14 05:12	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/05/14 05:12	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/05/14 05:12	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/05/14 05:12	1
1,1-Dichloroethane	**7.96**		1.00		ug/L			04/05/14 05:12	1
1,2-Dichloroethane	ND		1.00		ug/L			04/05/14 05:12	1
1,1-Dichloroethene	**186**		1.00		ug/L			04/05/14 05:12	1
1,2-Dichloropropane	ND		1.00		ug/L			04/05/14 05:12	1
1,3-Dichloropropane	ND		1.00		ug/L			04/05/14 05:12	1
2,2-Dichloropropane	ND		1.00		ug/L			04/05/14 05:12	1
1,1-Dichloropropene	**1.17**		1.00		ug/L			04/05/14 05:12	1
Ethylbenzene	**7.50**		1.00		ug/L			04/05/14 05:12	1
Hexachlorobutadiene	ND		2.00		ug/L			04/05/14 05:12	1
2-Hexanone	ND		10.0		ug/L			04/05/14 05:12	1
Isopropylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
Methylene Chloride	**5.48**		5.00		ug/L			04/05/14 05:12	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/05/14 05:12	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/05/14 05:12	1
Naphthalene	ND		5.00		ug/L			04/05/14 05:12	1
n-Butylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
N-Propylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
p-Isopropyltoluene	ND		1.00		ug/L			04/05/14 05:12	1
sec-Butylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
Styrene	ND		1.00		ug/L			04/05/14 05:12	1
tert-Butylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 05:12	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 05:12	1

Client Sample ID: M&A-104-040114
Date Collected: 04/01/14 11:50
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2460		200		ug/L			04/08/14 17:49	200
Toluene	103		1.00		ug/L			04/05/14 05:12	1
trans-1,2-Dichloroethene	661		200		ug/L			04/08/14 17:49	200
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 05:12	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/05/14 05:12	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/05/14 05:12	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/05/14 05:12	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/05/14 05:12	1
Trichloroethene	358000		2000		ug/L			04/08/14 18:16	2000
Trichlorofluoromethane	ND		1.00		ug/L			04/05/14 05:12	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/05/14 05:12	1
1,2,4-Trimethylbenzene	1.78		1.00		ug/L			04/05/14 05:12	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/05/14 05:12	1
Vinyl chloride	4260		200		ug/L			04/08/14 17:49	200
Xylenes, Total	20.8		3.00		ug/L			04/05/14 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/05/14 05:12*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/08/14 17:49*	*200*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/08/14 18:16*	*2000*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/05/14 05:12*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*04/08/14 17:49*	*200*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/08/14 18:16*	*2000*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*04/05/14 05:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*04/08/14 17:49*	*200*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*04/08/14 18:16*	*2000*
Toluene-d8 (Surr)	*84*		*70 - 130*		*04/05/14 05:12*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/08/14 17:49*	*200*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/08/14 18:16*	*2000*

Client Sample ID: M&A-111-040114
Date Collected: 04/01/14 15:00
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 16:01	1
Benzene	ND		1.00		ug/L			04/08/14 16:01	1
Bromobenzene	ND		1.00		ug/L			04/08/14 16:01	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 16:01	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 16:01	1
Bromoform	ND		1.00		ug/L			04/08/14 16:01	1
Bromomethane	ND		1.00		ug/L			04/08/14 16:01	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 16:01	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 16:01	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 16:01	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 16:01	1
Chloroethane	ND		1.00		ug/L			04/08/14 16:01	1
Chloroform	ND		1.00		ug/L			04/08/14 16:01	1
Chloromethane	ND		1.00		ug/L			04/08/14 16:01	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 16:01	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 16:01	1
cis-1,2-Dichloroethene	144		1.00		ug/L			04/08/14 16:01	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 16:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 16:01	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 16:01	1
Dibromomethane	ND		1.00		ug/L			04/08/14 16:01	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 16:01	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 16:01	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 16:01	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 16:01	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 16:01	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 16:01	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 16:01	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 16:01	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 16:01	1
2-Hexanone	ND		10.0		ug/L			04/08/14 16:01	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 16:01	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 16:01	1
Naphthalene	ND		5.00		ug/L			04/08/14 16:01	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 16:01	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
Styrene	ND		1.00		ug/L			04/08/14 16:01	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 16:01	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 16:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 16:01	1
Toluene	1.13		1.00		ug/L			04/08/14 16:01	1
trans-1,2-Dichloroethene	1.59		1.00		ug/L			04/08/14 16:01	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 16:01	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 16:01	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 16:01	1
Trichloroethene	38.7		1.00		ug/L			04/08/14 16:01	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 16:01	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 16:01	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 16:01	1
Vinyl chloride	407		10.0		ug/L			04/08/14 16:28	10
Xylenes, Total	ND		3.00		ug/L			04/08/14 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/08/14 16:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/08/14 16:28*	*10*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/08/14 16:01*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*04/08/14 16:28*	*10*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/08/14 16:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*04/08/14 16:28*	*10*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/08/14 16:01*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/08/14 16:28*	*10*

Client Sample ID: M&A-112-040214
Date Collected: 04/02/14 09:15
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/05/14 06:06	1
Benzene	ND		1.00		ug/L			04/05/14 06:06	1
Bromobenzene	ND		1.00		ug/L			04/05/14 06:06	1
Bromochloromethane	ND		1.00		ug/L			04/05/14 06:06	1
Bromodichloromethane	ND		1.00		ug/L			04/05/14 06:06	1
Bromoform	ND		1.00		ug/L			04/05/14 06:06	1
Bromomethane	ND		1.00		ug/L			04/05/14 06:06	1
2-Butanone (MEK)	ND		50.0		ug/L			04/05/14 06:06	1
Carbon disulfide	ND		1.00		ug/L			04/05/14 06:06	1
Carbon tetrachloride	ND		1.00		ug/L			04/05/14 06:06	1
Chlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
Chlorodibromomethane	ND		1.00		ug/L			04/05/14 06:06	1
Chloroethane	ND		1.00		ug/L			04/05/14 06:06	1
Chloroform	ND		1.00		ug/L			04/05/14 06:06	1
Chloromethane	1.61		1.00		ug/L			04/05/14 06:06	1
2-Chlorotoluene	ND		1.00		ug/L			04/05/14 06:06	1
4-Chlorotoluene	ND		1.00		ug/L			04/05/14 06:06	1
cis-1,2-Dichloroethene	1700		25.0		ug/L			04/08/14 18:43	25
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 06:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/05/14 06:06	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/05/14 06:06	1
Dibromomethane	ND		1.00		ug/L			04/05/14 06:06	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/05/14 06:06	1
1,1-Dichloroethane	ND		1.00		ug/L			04/05/14 06:06	1
1,2-Dichloroethane	ND		1.00		ug/L			04/05/14 06:06	1
1,1-Dichloroethene	12.6		1.00		ug/L			04/05/14 06:06	1
1,2-Dichloropropane	ND		1.00		ug/L			04/05/14 06:06	1
1,3-Dichloropropane	ND		1.00		ug/L			04/05/14 06:06	1
2,2-Dichloropropane	ND		1.00		ug/L			04/05/14 06:06	1
1,1-Dichloropropene	ND		1.00		ug/L			04/05/14 06:06	1
Ethylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
Hexachlorobutadiene	ND		2.00		ug/L			04/05/14 06:06	1
2-Hexanone	ND		10.0		ug/L			04/05/14 06:06	1
Isopropylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
Methylene Chloride	ND		5.00		ug/L			04/05/14 06:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/05/14 06:06	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/05/14 06:06	1
Naphthalene	ND		5.00		ug/L			04/05/14 06:06	1
n-Butylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
N-Propylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
p-Isopropyltoluene	ND		1.00		ug/L			04/05/14 06:06	1
sec-Butylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
Styrene	ND		1.00		ug/L			04/05/14 06:06	1
tert-Butylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 06:06	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 06:06	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Client Sample ID: M&A-112-040214
Date Collected: 04/02/14 09:15
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	27.7		1.00		ug/L			04/05/14 06:06	1
Toluene	ND		1.00		ug/L			04/05/14 06:06	1
trans-1,2-Dichloroethene	34.2		1.00		ug/L			04/05/14 06:06	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 06:06	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/05/14 06:06	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/05/14 06:06	1
Trichloroethene	1110		25.0		ug/L			04/08/14 18:43	25
Trichlorofluoromethane	ND		1.00		ug/L			04/05/14 06:06	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/05/14 06:06	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/05/14 06:06	1
Vinyl chloride	142		1.00		ug/L			04/05/14 06:06	1
Xylenes, Total	ND		3.00		ug/L			04/05/14 06:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/05/14 06:06*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/08/14 18:43*	*25*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/05/14 06:06*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/08/14 18:43*	*25*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*04/05/14 06:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/08/14 18:43*	*25*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/05/14 06:06*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/08/14 18:43*	*25*

Client Sample ID: M&A-115-040214
Date Collected: 04/02/14 08:30
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 13:46	1
Benzene	ND		1.00		ug/L			04/08/14 13:46	1
Bromobenzene	ND		1.00		ug/L			04/08/14 13:46	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 13:46	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 13:46	1
Bromoform	ND		1.00		ug/L			04/08/14 13:46	1
Bromomethane	ND		1.00		ug/L			04/08/14 13:46	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 13:46	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 13:46	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 13:46	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 13:46	1
Chloroethane	ND		1.00		ug/L			04/08/14 13:46	1
Chloroform	ND		1.00		ug/L			04/08/14 13:46	1
Chloromethane	ND		1.00		ug/L			04/08/14 13:46	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 13:46	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 13:46	1
cis-1,2-Dichloroethene	24.2		1.00		ug/L			04/08/14 13:46	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 13:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 13:46	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 13:46	1
Dibromomethane	ND		1.00		ug/L			04/08/14 13:46	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 13:46	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 13:46	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 13:46	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 13:46	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 13:46	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 13:46	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 13:46	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 13:46	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 13:46	1
2-Hexanone	ND		10.0		ug/L			04/08/14 13:46	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 13:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 13:46	1
Naphthalene	ND		5.00		ug/L			04/08/14 13:46	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 13:46	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
Styrene	ND		1.00		ug/L			04/08/14 13:46	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 13:46	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 13:46	1

Client Sample ID: M&A-115-040214
Date Collected: 04/02/14 08:30
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 13:46	1
Toluene	ND		1.00		ug/L			04/08/14 13:46	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 13:46	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 13:46	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 13:46	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 13:46	1
Trichloroethene	6.31		1.00		ug/L			04/08/14 13:46	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 13:46	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 13:46	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 13:46	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 13:46	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/08/14 13:46*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/08/14 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*04/08/14 13:46*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/08/14 13:46*	*1*

Client Sample ID: M&A-116-040114
Date Collected: 04/01/14 09:25
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 14:13	1
Benzene	ND		1.00		ug/L			04/08/14 14:13	1
Bromobenzene	ND		1.00		ug/L			04/08/14 14:13	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 14:13	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 14:13	1
Bromoform	ND		1.00		ug/L			04/08/14 14:13	1
Bromomethane	ND		1.00		ug/L			04/08/14 14:13	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 14:13	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 14:13	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 14:13	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 14:13	1
Chloroethane	ND		1.00		ug/L			04/08/14 14:13	1
Chloroform	ND		1.00		ug/L			04/08/14 14:13	1
Chloromethane	ND		1.00		ug/L			04/08/14 14:13	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 14:13	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 14:13	1
cis-1,2-Dichloroethene	10.2		1.00		ug/L			04/08/14 14:13	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 14:13	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 14:13	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 14:13	1
Dibromomethane	ND		1.00		ug/L			04/08/14 14:13	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 14:13	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 14:13	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 14:13	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 14:13	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 14:13	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 14:13	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 14:13	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 14:13	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 14:13	1
2-Hexanone	ND		10.0		ug/L			04/08/14 14:13	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 14:13	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 14:13	1
Naphthalene	ND		5.00		ug/L			04/08/14 14:13	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 14:13	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
Styrene	ND		1.00		ug/L			04/08/14 14:13	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 14:13	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 14:13	1

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Client Sample ID: M&A-116-040114
Date Collected: 04/01/14 09:25
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 14:13	1
Toluene	ND		1.00		ug/L			04/08/14 14:13	1
trans-1,2-Dichloroethene	1.41		1.00		ug/L			04/08/14 14:13	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 14:13	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 14:13	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 14:13	1
Trichloroethene	14.7		1.00		ug/L			04/08/14 14:13	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 14:13	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 14:13	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 14:13	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 14:13	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/08/14 14:13*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/08/14 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*04/08/14 14:13*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/08/14 14:13*	*1*

Client Sample ID: M&A-122-040214
Date Collected: 04/02/14 08:00
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 14:40	1
Benzene	ND		1.00		ug/L			04/08/14 14:40	1
Bromobenzene	ND		1.00		ug/L			04/08/14 14:40	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 14:40	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 14:40	1
Bromoform	ND		1.00		ug/L			04/08/14 14:40	1
Bromomethane	ND		1.00		ug/L			04/08/14 14:40	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 14:40	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 14:40	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 14:40	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 14:40	1
Chloroethane	ND		1.00		ug/L			04/08/14 14:40	1
Chloroform	ND		1.00		ug/L			04/08/14 14:40	1
Chloromethane	ND		1.00		ug/L			04/08/14 14:40	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 14:40	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 14:40	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 14:40	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 14:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 14:40	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 14:40	1
Dibromomethane	ND		1.00		ug/L			04/08/14 14:40	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 14:40	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 14:40	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 14:40	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 14:40	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 14:40	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 14:40	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 14:40	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 14:40	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 14:40	1
2-Hexanone	ND		10.0		ug/L			04/08/14 14:40	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 14:40	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 14:40	1
Naphthalene	ND		5.00		ug/L			04/08/14 14:40	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 14:40	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
Styrene	ND		1.00		ug/L			04/08/14 14:40	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 14:40	1

Client Sample ID: M&A-122-040214
Date Collected: 04/02/14 08:00
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 14:40	1
Toluene	ND		1.00		ug/L			04/08/14 14:40	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 14:40	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 14:40	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 14:40	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 14:40	1
Trichloroethene	ND		1.00		ug/L			04/08/14 14:40	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 14:40	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 14:40	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 14:40	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 14:40	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/08/14 14:40*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*04/08/14 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*04/08/14 14:40*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/08/14 14:40*	*1*

Client Sample ID: M&A-126-040114
Date Collected: 04/01/14 16:45
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 15:07	1
Benzene	ND		1.00		ug/L			04/08/14 15:07	1
Bromobenzene	ND		1.00		ug/L			04/08/14 15:07	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 15:07	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 15:07	1
Bromoform	ND		1.00		ug/L			04/08/14 15:07	1
Bromomethane	ND		1.00		ug/L			04/08/14 15:07	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 15:07	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 15:07	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 15:07	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 15:07	1
Chloroethane	ND		1.00		ug/L			04/08/14 15:07	1
Chloroform	ND		1.00		ug/L			04/08/14 15:07	1
Chloromethane	ND		1.00		ug/L			04/08/14 15:07	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 15:07	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 15:07	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 15:07	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 15:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 15:07	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 15:07	1
Dibromomethane	ND		1.00		ug/L			04/08/14 15:07	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 15:07	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 15:07	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 15:07	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 15:07	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 15:07	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 15:07	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 15:07	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 15:07	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 15:07	1
2-Hexanone	ND		10.0		ug/L			04/08/14 15:07	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 15:07	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 15:07	1
Naphthalene	ND		5.00		ug/L			04/08/14 15:07	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 15:07	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
Styrene	ND		1.00		ug/L			04/08/14 15:07	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 15:07	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 15:07	1

Client Sample ID: M&A-126-040114
Date Collected: 04/01/14 16:45
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 15:07	1
Toluene	ND		1.00		ug/L			04/08/14 15:07	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 15:07	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 15:07	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 15:07	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 15:07	1
Trichloroethene	1.43		1.00		ug/L			04/08/14 15:07	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 15:07	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 15:07	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 15:07	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 15:07	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/08/14 15:07*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*04/08/14 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*04/08/14 15:07*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/08/14 15:07*	*1*

Client Sample ID: FD-HTB-040114
Date Collected: 04/01/14 17:20
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 15:34	1
Benzene	ND		1.00		ug/L			04/08/14 15:34	1
Bromobenzene	ND		1.00		ug/L			04/08/14 15:34	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 15:34	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 15:34	1
Bromoform	ND		1.00		ug/L			04/08/14 15:34	1
Bromomethane	ND		1.00		ug/L			04/08/14 15:34	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 15:34	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 15:34	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 15:34	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 15:34	1
Chloroethane	ND		1.00		ug/L			04/08/14 15:34	1
Chloroform	ND		1.00		ug/L			04/08/14 15:34	1
Chloromethane	ND		1.00		ug/L			04/08/14 15:34	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 15:34	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 15:34	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 15:34	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 15:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 15:34	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 15:34	1
Dibromomethane	ND		1.00		ug/L			04/08/14 15:34	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 15:34	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 15:34	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 15:34	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 15:34	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 15:34	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 15:34	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 15:34	1
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 15:34	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 15:34	1
2-Hexanone	ND		10.0		ug/L			04/08/14 15:34	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 15:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 15:34	1
Naphthalene	ND		5.00		ug/L			04/08/14 15:34	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 15:34	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
Styrene	ND		1.00		ug/L			04/08/14 15:34	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 15:34	1

Client Sample ID: FD-HTB-040114
Date Collected: 04/01/14 17:20
Date Received: 04/03/14 07:15

Lab Sample ID: 490-50034-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			04/08/14 15:34	1
Toluene	ND		1.00		ug/L			04/08/14 15:34	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 15:34	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 15:34	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 15:34	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 15:34	1
Trichloroethene	1.38		1.00		ug/L			04/08/14 15:34	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 15:34	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 15:34	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 15:34	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 15:34	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/08/14 15:34*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/08/14 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*04/08/14 15:34*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/08/14 15:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-152942/5
Matrix: Water
Analysis Batch: 152942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/05/14 01:37	1
Benzene	ND		1.00		ug/L			04/05/14 01:37	1
Bromobenzene	ND		1.00		ug/L			04/05/14 01:37	1
Bromochloromethane	ND		1.00		ug/L			04/05/14 01:37	1
Bromodichloromethane	ND		1.00		ug/L			04/05/14 01:37	1
Bromoform	ND		1.00		ug/L			04/05/14 01:37	1
Bromomethane	ND		1.00		ug/L			04/05/14 01:37	1
2-Butanone (MEK)	ND		50.0		ug/L			04/05/14 01:37	1
Carbon disulfide	ND		1.00		ug/L			04/05/14 01:37	1
Carbon tetrachloride	ND		1.00		ug/L			04/05/14 01:37	1
Chlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
Chlorodibromomethane	ND		1.00		ug/L			04/05/14 01:37	1
Chloroethane	ND		1.00		ug/L			04/05/14 01:37	1
Chloroform	ND		1.00		ug/L			04/05/14 01:37	1
Chloromethane	ND		1.00		ug/L			04/05/14 01:37	1
2-Chlorotoluene	ND		1.00		ug/L			04/05/14 01:37	1
4-Chlorotoluene	ND		1.00		ug/L			04/05/14 01:37	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/05/14 01:37	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 01:37	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/05/14 01:37	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/05/14 01:37	1
Dibromomethane	ND		1.00		ug/L			04/05/14 01:37	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/05/14 01:37	1
1,1-Dichloroethane	ND		1.00		ug/L			04/05/14 01:37	1
1,2-Dichloroethane	ND		1.00		ug/L			04/05/14 01:37	1
1,1-Dichloroethene	ND		1.00		ug/L			04/05/14 01:37	1
1,2-Dichloropropane	ND		1.00		ug/L			04/05/14 01:37	1
1,3-Dichloropropane	ND		1.00		ug/L			04/05/14 01:37	1
2,2-Dichloropropane	ND		1.00		ug/L			04/05/14 01:37	1
1,1-Dichloropropene	ND		1.00		ug/L			04/05/14 01:37	1
Ethylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
Hexachlorobutadiene	ND		2.00		ug/L			04/05/14 01:37	1
2-Hexanone	ND		10.0		ug/L			04/05/14 01:37	1
Isopropylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
Methylene Chloride	ND		5.00		ug/L			04/05/14 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/05/14 01:37	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/05/14 01:37	1
Naphthalene	ND		5.00		ug/L			04/05/14 01:37	1
n-Butylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
N-Propylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
p-Isopropyltoluene	ND		1.00		ug/L			04/05/14 01:37	1
sec-Butylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
Styrene	ND		1.00		ug/L			04/05/14 01:37	1
tert-Butylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 01:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-152942/5
Matrix: Water
Analysis Batch: 152942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/05/14 01:37	1
Tetrachloroethene	ND		1.00		ug/L			04/05/14 01:37	1
Toluene	ND		1.00		ug/L			04/05/14 01:37	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/05/14 01:37	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/05/14 01:37	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/05/14 01:37	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/05/14 01:37	1
Trichloroethene	ND		1.00		ug/L			04/05/14 01:37	1
Trichlorofluoromethane	ND		1.00		ug/L			04/05/14 01:37	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/05/14 01:37	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/05/14 01:37	1
Vinyl chloride	ND		1.00		ug/L			04/05/14 01:37	1
Xylenes, Total	ND		3.00		ug/L			04/05/14 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/05/14 01:37*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/05/14 01:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*04/05/14 01:37*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/05/14 01:37*	*1*

Lab Sample ID: LCS 490-152942/3
Matrix: Water
Analysis Batch: 152942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	90.76		ug/L		91	54 - 145
Benzene	20.0	19.98		ug/L		100	80 - 121
Bromobenzene	20.0	18.59		ug/L		93	68 - 130
Bromochloromethane	20.0	24.76		ug/L		124	78 - 129
Bromodichloromethane	20.0	20.48		ug/L		102	75 - 129
Bromoform	20.0	17.10		ug/L		85	46 - 145
Bromomethane	20.0	21.65		ug/L		108	41 - 150
2-Butanone (MEK)	100	100.0		ug/L		100	62 - 133
Carbon disulfide	20.0	19.67		ug/L		98	77 - 126
Carbon tetrachloride	20.0	20.86		ug/L		104	64 - 147
Chlorobenzene	20.0	19.51		ug/L		98	80 - 120
Chlorodibromomethane	20.0	16.88		ug/L		84	69 - 133
Chloroethane	20.0	15.22		ug/L		76	72 - 120
Chloroform	20.0	19.41		ug/L		97	73 - 129
Chloromethane	20.0	16.19		ug/L		81	12 - 150
2-Chlorotoluene	20.0	19.00		ug/L		95	75 - 126
4-Chlorotoluene	20.0	18.99		ug/L		95	75 - 130
cis-1,2-Dichloroethene	20.0	20.61		ug/L		103	76 - 125
cis-1,3-Dichloropropene	20.0	16.50		ug/L		82	74 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.30		ug/L		92	54 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-152942/3
Matrix: Water
Analysis Batch: 152942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	20.0	19.34		ug/L		97	80 - 129
Dibromomethane	20.0	21.00		ug/L		105	71 - 125
1,2-Dichlorobenzene	20.0	20.12		ug/L		101	80 - 121
1,3-Dichlorobenzene	20.0	20.07		ug/L		100	80 - 122
1,4-Dichlorobenzene	20.0	20.01		ug/L		100	80 - 120
Dichlorodifluoromethane	20.0	15.41		ug/L		77	37 - 127
1,1-Dichloroethane	20.0	20.00		ug/L		100	78 - 125
1,2-Dichloroethane	20.0	18.88		ug/L		94	77 - 121
1,1-Dichloroethene	20.0	22.44		ug/L		112	79 - 124
1,2-Dichloropropane	20.0	19.62		ug/L		98	75 - 120
1,3-Dichloropropane	20.0	18.93		ug/L		95	80 - 125
2,2-Dichloropropane	20.0	17.03		ug/L		85	43 - 161
1,1-Dichloropropene	20.0	19.85		ug/L		99	80 - 122
Ethylbenzene	20.0	18.45		ug/L		92	80 - 130
Hexachlorobutadiene	20.0	19.38		ug/L		97	49 - 146
2-Hexanone	100	93.53		ug/L		94	60 - 142
Isopropylbenzene	20.0	18.76		ug/L		94	80 - 141
Methylene Chloride	20.0	20.17		ug/L		101	79 - 123
4-Methyl-2-pentanone (MIBK)	100	90.14		ug/L		90	60 - 137
Methyl tert-butyl ether	20.0	18.63		ug/L		93	72 - 133
Naphthalene	20.0	18.76		ug/L		94	62 - 138
n-Butylbenzene	20.0	18.13		ug/L		91	68 - 132
N-Propylbenzene	20.0	19.10		ug/L		95	75 - 129
p-Isopropyltoluene	20.0	19.37		ug/L		97	75 - 128
sec-Butylbenzene	20.0	19.50		ug/L		98	76 - 128
Styrene	20.0	19.94		ug/L		100	80 - 127
tert-Butylbenzene	20.0	19.34		ug/L		97	76 - 126
1,1,1,2-Tetrachloroethane	20.0	19.64		ug/L		98	74 - 135
1,1,2,2-Tetrachloroethane	20.0	20.78		ug/L		104	69 - 131
Tetrachloroethene	20.0	20.76		ug/L		104	80 - 126
Toluene	20.0	17.17		ug/L		86	80 - 126
trans-1,2-Dichloroethene	20.0	19.74		ug/L		99	79 - 126
trans-1,3-Dichloropropene	20.0	15.39		ug/L		77	63 - 134
1,2,3-Trichlorobenzene	20.0	21.36		ug/L		107	62 - 133
1,2,4-Trichlorobenzene	20.0	20.62		ug/L		103	63 - 133
1,1,1-Trichloroethane	20.0	19.44		ug/L		97	78 - 135
1,1,2-Trichloroethane	20.0	18.80		ug/L		94	80 - 124
Trichloroethene	20.0	22.60		ug/L		113	80 - 123
Trichlorofluoromethane	20.0	15.75		ug/L		79	65 - 124
1,2,3-Trichloropropane	20.0	20.45		ug/L		102	70 - 131
1,2,4-Trimethylbenzene	20.0	19.29		ug/L		96	77 - 126
1,3,5-Trimethylbenzene	20.0	19.34		ug/L		97	77 - 127
Vinyl chloride	20.0	17.10		ug/L		86	68 - 120
Xylenes, Total	40.0	36.73		ug/L		92	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-152942/3
Matrix: Water
Analysis Batch: 152942

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	84		70 - 130

Lab Sample ID: 490-49890-B-1 MS
Matrix: Water
Analysis Batch: 152942

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250	217.3		ug/L		87	45 - 141
Benzene	ND		50.0	45.99		ug/L		92	75 - 133
Bromobenzene	ND		50.0	43.23		ug/L		86	60 - 138
Bromochloromethane	ND		50.0	55.43		ug/L		111	67 - 139
Bromodichloromethane	ND		50.0	48.19		ug/L		96	70 - 140
Bromoform	ND		50.0	41.93		ug/L		84	42 - 147
Bromomethane	ND		50.0	43.02		ug/L		86	16 - 163
2-Butanone (MEK)	ND		250	220.9		ug/L		88	50 - 138
Carbon disulfide	ND		50.0	43.52		ug/L		87	48 - 152
Carbon tetrachloride	ND		50.0	52.10		ug/L		104	62 - 164
Chlorobenzene	ND		50.0	46.21		ug/L		92	80 - 129
Chlorodibromomethane	ND		50.0	40.16		ug/L		80	66 - 140
Chloroethane	ND		50.0	41.00		ug/L		82	58 - 137
Chloroform	ND		50.0	43.89		ug/L		88	66 - 138
Chloromethane	ND		50.0	42.06		ug/L		84	10 - 169
2-Chlorotoluene	ND		50.0	44.40		ug/L		89	67 - 138
4-Chlorotoluene	ND		50.0	44.40		ug/L		89	69 - 138
cis-1,2-Dichloroethene	ND		50.0	47.56		ug/L		95	68 - 138
cis-1,3-Dichloropropene	ND		50.0	38.84		ug/L		78	71 - 141
1,2-Dibromo-3-Chloropropane	ND		50.0	42.23		ug/L		84	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	43.97		ug/L		88	75 - 137
Dibromomethane	ND		50.0	45.50		ug/L		91	58 - 140
1,2-Dichlorobenzene	ND		50.0	47.77		ug/L		96	79 - 128
1,3-Dichlorobenzene	ND		50.0	46.91		ug/L		94	77 - 131
1,4-Dichlorobenzene	ND		50.0	45.51		ug/L		91	78 - 126
Dichlorodifluoromethane	ND		50.0	39.62		ug/L		79	40 - 127
1,1-Dichloroethane	ND		50.0	45.60		ug/L		91	71 - 139
1,2-Dichloroethane	ND		50.0	43.21		ug/L		86	64 - 136
1,1-Dichloroethene	ND		50.0	50.71		ug/L		101	70 - 142
1,2-Dichloropropane	ND		50.0	45.19		ug/L		90	67 - 131
1,3-Dichloropropane	ND		50.0	44.00		ug/L		88	72 - 134
2,2-Dichloropropane	ND		50.0	34.08		ug/L		68	37 - 175
1,1-Dichloropropene	ND		50.0	46.99		ug/L		94	76 - 139
Ethylbenzene	ND		50.0	44.14		ug/L		88	79 - 139
Hexachlorobutadiene	ND		50.0	39.50		ug/L		79	45 - 155
2-Hexanone	ND		250	230.7		ug/L		92	50 - 150
Isopropylbenzene	ND		50.0	45.64		ug/L		91	80 - 153
Methylene Chloride	ND		50.0	46.34		ug/L		93	64 - 139
4-Methyl-2-pentanone (MIBK)	ND		250	205.7		ug/L		82	50 - 147
Methyl tert-butyl ether	ND		50.0	41.31		ug/L		83	66 - 141

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-49890-B-1 MS
Matrix: Water
Analysis Batch: 152942

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		50.0	39.41		ug/L		79	55 - 140
n-Butylbenzene	ND		50.0	44.05		ug/L		88	66 - 141
N-Propylbenzene	ND		50.0	46.62		ug/L		93	69 - 142
p-Isopropyltoluene	ND		50.0	46.61		ug/L		93	71 - 137
sec-Butylbenzene	ND		50.0	47.12		ug/L		94	73 - 138
Styrene	ND		50.0	47.58		ug/L		95	61 - 148
tert-Butylbenzene	ND		50.0	48.04		ug/L		96	70 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	47.36		ug/L		95	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	48.40		ug/L		97	56 - 143
Tetrachloroethene	ND		50.0	48.97		ug/L		98	72 - 145
Toluene	ND		50.0	40.56		ug/L		81	75 - 136
trans-1,2-Dichloroethene	ND		50.0	45.78		ug/L		92	66 - 143
trans-1,3-Dichloropropene	ND		50.0	38.29		ug/L		77	59 - 135
1,2,3-Trichlorobenzene	ND		50.0	43.46		ug/L		87	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	43.83		ug/L		88	60 - 136
1,1,1-Trichloroethane	ND		50.0	46.70		ug/L		93	76 - 149
1,1,2-Trichloroethane	ND		50.0	45.90		ug/L		92	74 - 134
Trichloroethene	ND		50.0	56.14		ug/L		112	73 - 144
Trichlorofluoromethane	ND		50.0	47.09		ug/L		94	58 - 139
1,2,3-Trichloropropane	ND		50.0	46.03		ug/L		92	53 - 144
1,2,4-Trimethylbenzene	ND		50.0	45.57		ug/L		91	69 - 136
1,3,5-Trimethylbenzene	ND		50.0	46.02		ug/L		92	69 - 139
Vinyl chloride	ND		50.0	47.64		ug/L		95	56 - 129
Xylenes, Total	ND		100	87.87		ug/L		88	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Toluene-d8 (Surr)	*82*		*70 - 130*

Lab Sample ID: 490-49890-C-1 MSD
Matrix: Water
Analysis Batch: 152942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	222.5		ug/L		89	45 - 141	2	21
Benzene	ND		50.0	49.04		ug/L		98	75 - 133	6	17
Bromobenzene	ND		50.0	45.28		ug/L		91	60 - 138	5	20
Bromochloromethane	ND		50.0	57.26		ug/L		115	67 - 139	3	17
Bromodichloromethane	ND		50.0	50.13		ug/L		100	70 - 140	4	18
Bromoform	ND		50.0	43.63		ug/L		87	42 - 147	4	16
Bromomethane	ND		50.0	49.68		ug/L		99	16 - 163	14	50
2-Butanone (MEK)	ND		250	235.1		ug/L		94	50 - 138	6	19
Carbon disulfide	ND		50.0	46.33		ug/L		93	48 - 152	6	21
Carbon tetrachloride	ND		50.0	54.54		ug/L		109	62 - 164	5	19
Chlorobenzene	ND		50.0	48.41		ug/L		97	80 - 129	5	14
Chlorodibromomethane	ND		50.0	41.60		ug/L		83	66 - 140	4	15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-49890-C-1 MSD
Matrix: Water
Analysis Batch: 152942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		50.0	43.60		ug/L		87	58 - 137	6	20
Chloroform	ND		50.0	46.43		ug/L		93	66 - 138	6	18
Chloromethane	ND		50.0	44.36		ug/L		89	10 - 169	5	31
2-Chlorotoluene	ND		50.0	47.66		ug/L		95	67 - 138	7	17
4-Chlorotoluene	ND		50.0	48.40		ug/L		97	69 - 138	9	18
cis-1,2-Dichloroethene	ND		50.0	48.47		ug/L		97	68 - 138	2	17
cis-1,3-Dichloropropene	ND		50.0	40.89		ug/L		82	71 - 141	5	15
1,2-Dibromo-3-Chloropropane	ND		50.0	44.51		ug/L		89	52 - 126	5	24
1,2-Dibromoethane (EDB)	ND		50.0	47.16		ug/L		94	75 - 137	7	15
Dibromomethane	ND		50.0	47.57		ug/L		95	58 - 140	4	16
1,2-Dichlorobenzene	ND		50.0	49.38		ug/L		99	79 - 128	3	15
1,3-Dichlorobenzene	ND		50.0	49.36		ug/L		99	77 - 131	5	15
1,4-Dichlorobenzene	ND		50.0	48.61		ug/L		97	78 - 126	7	15
Dichlorodifluoromethane	ND		50.0	39.68		ug/L		79	40 - 127	0	18
1,1-Dichloroethane	ND		50.0	48.45		ug/L		97	71 - 139	6	17
1,2-Dichloroethane	ND		50.0	45.11		ug/L		90	64 - 136	4	17
1,1-Dichloroethene	ND		50.0	54.74		ug/L		109	70 - 142	8	17
1,2-Dichloropropane	ND		50.0	46.64		ug/L		93	67 - 131	3	17
1,3-Dichloropropane	ND		50.0	44.65		ug/L		89	72 - 134	1	14
2,2-Dichloropropane	ND		50.0	35.71		ug/L		71	37 - 175	5	18
1,1-Dichloropropene	ND		50.0	49.06		ug/L		98	76 - 139	4	17
Ethylbenzene	ND		50.0	46.89		ug/L		94	79 - 139	6	15
Hexachlorobutadiene	ND		50.0	47.17		ug/L		94	45 - 155	18	23
2-Hexanone	ND		250	226.5		ug/L		91	50 - 150	2	15
Isopropylbenzene	ND		50.0	48.11		ug/L		96	80 - 153	5	16
Methylene Chloride	ND		50.0	47.93		ug/L		96	64 - 139	3	17
4-Methyl-2-pentanone (MIBK)	ND		250	207.4		ug/L		83	50 - 147	1	17
Methyl tert-butyl ether	ND		50.0	43.49		ug/L		87	66 - 141	5	16
Naphthalene	ND		50.0	46.60		ug/L		93	55 - 140	17	26
n-Butylbenzene	ND		50.0	47.34		ug/L		95	66 - 141	7	18
N-Propylbenzene	ND		50.0	48.97		ug/L		98	69 - 142	5	17
p-Isopropyltoluene	ND		50.0	49.53		ug/L		99	71 - 137	6	16
sec-Butylbenzene	ND		50.0	50.87		ug/L		102	73 - 138	8	16
Styrene	ND		50.0	50.06		ug/L		100	61 - 148	5	24
tert-Butylbenzene	ND		50.0	51.33		ug/L		103	70 - 138	7	16
1,1,1,2-Tetrachloroethane	ND		50.0	50.23		ug/L		100	73 - 141	6	16
1,1,2,2-Tetrachloroethane	ND		50.0	51.28		ug/L		103	56 - 143	6	20
Tetrachloroethene	ND		50.0	51.96		ug/L		104	72 - 145	6	16
Toluene	ND		50.0	42.66		ug/L		85	75 - 136	5	15
trans-1,2-Dichloroethene	ND		50.0	47.81		ug/L		96	66 - 143	4	16
trans-1,3-Dichloropropene	ND		50.0	37.80		ug/L		76	59 - 135	1	14
1,2,3-Trichlorobenzene	ND		50.0	49.78		ug/L		100	55 - 138	14	25
1,2,4-Trichlorobenzene	ND		50.0	49.79		ug/L		100	60 - 136	13	19
1,1,1-Trichloroethane	ND		50.0	49.63		ug/L		99	76 - 149	6	17
1,1,2-Trichloroethane	ND		50.0	47.91		ug/L		96	74 - 134	4	15
Trichloroethene	ND		50.0	58.35		ug/L		117	73 - 144	4	17
Trichlorofluoromethane	ND		50.0	50.05		ug/L		100	58 - 139	6	18
1,2,3-Trichloropropane	ND		50.0	48.20		ug/L		96	53 - 144	5	19

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-49890-C-1 MSD
Matrix: Water
Analysis Batch: 152942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	ND		50.0	47.50		ug/L		95	69 - 136	4	16
1,3,5-Trimethylbenzene	ND		50.0	48.40		ug/L		97	69 - 139	5	17
Vinyl chloride	ND		50.0	49.56		ug/L		99	56 - 129	4	17
Xylenes, Total	ND		100	91.91		ug/L		92	74 - 141	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 490-153429/6
Matrix: Water
Analysis Batch: 153429

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			04/08/14 11:58	1
Benzene	ND		1.00		ug/L			04/08/14 11:58	1
Bromobenzene	ND		1.00		ug/L			04/08/14 11:58	1
Bromochloromethane	ND		1.00		ug/L			04/08/14 11:58	1
Bromodichloromethane	ND		1.00		ug/L			04/08/14 11:58	1
Bromoform	ND		1.00		ug/L			04/08/14 11:58	1
Bromomethane	ND		1.00		ug/L			04/08/14 11:58	1
2-Butanone (MEK)	ND		50.0		ug/L			04/08/14 11:58	1
Carbon disulfide	ND		1.00		ug/L			04/08/14 11:58	1
Carbon tetrachloride	ND		1.00		ug/L			04/08/14 11:58	1
Chlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
Chlorodibromomethane	ND		1.00		ug/L			04/08/14 11:58	1
Chloroethane	ND		1.00		ug/L			04/08/14 11:58	1
Chloroform	ND		1.00		ug/L			04/08/14 11:58	1
Chloromethane	ND		1.00		ug/L			04/08/14 11:58	1
2-Chlorotoluene	ND		1.00		ug/L			04/08/14 11:58	1
4-Chlorotoluene	ND		1.00		ug/L			04/08/14 11:58	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 11:58	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 11:58	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			04/08/14 11:58	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			04/08/14 11:58	1
Dibromomethane	ND		1.00		ug/L			04/08/14 11:58	1
1,2-Dichlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,3-Dichlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,4-Dichlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
Dichlorodifluoromethane	ND		1.00		ug/L			04/08/14 11:58	1
1,1-Dichloroethane	ND		1.00		ug/L			04/08/14 11:58	1
1,2-Dichloroethane	ND		1.00		ug/L			04/08/14 11:58	1
1,1-Dichloroethene	ND		1.00		ug/L			04/08/14 11:58	1
1,2-Dichloropropane	ND		1.00		ug/L			04/08/14 11:58	1
1,3-Dichloropropane	ND		1.00		ug/L			04/08/14 11:58	1
2,2-Dichloropropane	ND		1.00		ug/L			04/08/14 11:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-153429/6
Matrix: Water
Analysis Batch: 153429

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.00		ug/L			04/08/14 11:58	1
Ethylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
Hexachlorobutadiene	ND		2.00		ug/L			04/08/14 11:58	1
2-Hexanone	ND		10.0		ug/L			04/08/14 11:58	1
Isopropylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
Methylene Chloride	ND		5.00		ug/L			04/08/14 11:58	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			04/08/14 11:58	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/08/14 11:58	1
Naphthalene	ND		5.00		ug/L			04/08/14 11:58	1
n-Butylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
N-Propylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
p-Isopropyltoluene	ND		1.00		ug/L			04/08/14 11:58	1
sec-Butylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
Styrene	ND		1.00		ug/L			04/08/14 11:58	1
tert-Butylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 11:58	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			04/08/14 11:58	1
Tetrachloroethene	ND		1.00		ug/L			04/08/14 11:58	1
Toluene	ND		1.00		ug/L			04/08/14 11:58	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			04/08/14 11:58	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			04/08/14 11:58	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,1,1-Trichloroethane	ND		1.00		ug/L			04/08/14 11:58	1
1,1,2-Trichloroethane	ND		1.00		ug/L			04/08/14 11:58	1
Trichloroethene	ND		1.00		ug/L			04/08/14 11:58	1
Trichlorofluoromethane	ND		1.00		ug/L			04/08/14 11:58	1
1,2,3-Trichloropropane	ND		1.00		ug/L			04/08/14 11:58	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			04/08/14 11:58	1
Vinyl chloride	ND		1.00		ug/L			04/08/14 11:58	1
Xylenes, Total	ND		3.00		ug/L			04/08/14 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/08/14 11:58*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/08/14 11:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*04/08/14 11:58*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/08/14 11:58*	*1*

Lab Sample ID: LCS 490-153429/4
Matrix: Water
Analysis Batch: 153429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	99.96		ug/L		100	54 - 145
Benzene	20.0	20.62		ug/L		103	80 - 121
Bromobenzene	20.0	19.50		ug/L		98	68 - 130
Bromochloromethane	20.0	25.26		ug/L		126	78 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-153429/4
Matrix: Water
Analysis Batch: 153429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	21.26		ug/L		106	75 - 129
Bromoform	20.0	18.72		ug/L		94	46 - 145
Bromomethane	20.0	23.37		ug/L		117	41 - 150
2-Butanone (MEK)	100	101.3		ug/L		101	62 - 133
Carbon disulfide	20.0	19.82		ug/L		99	77 - 126
Carbon tetrachloride	20.0	22.02		ug/L		110	64 - 147
Chlorobenzene	20.0	20.94		ug/L		105	80 - 120
Chlorodibromomethane	20.0	18.12		ug/L		91	69 - 133
Chloroethane	20.0	17.31		ug/L		87	72 - 120
Chloroform	20.0	19.57		ug/L		98	73 - 129
Chloromethane	20.0	19.60		ug/L		98	12 - 150
2-Chlorotoluene	20.0	20.06		ug/L		100	75 - 126
4-Chlorotoluene	20.0	20.14		ug/L		101	75 - 130
cis-1,2-Dichloroethene	20.0	22.11		ug/L		111	76 - 125
cis-1,3-Dichloropropene	20.0	18.54		ug/L		93	74 - 140
1,2-Dibromo-3-Chloropropane	20.0	19.45		ug/L		97	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.97		ug/L		105	80 - 129
Dibromomethane	20.0	21.09		ug/L		105	71 - 125
1,2-Dichlorobenzene	20.0	21.07		ug/L		105	80 - 121
1,3-Dichlorobenzene	20.0	20.58		ug/L		103	80 - 122
1,4-Dichlorobenzene	20.0	19.78		ug/L		99	80 - 120
Dichlorodifluoromethane	20.0	22.07		ug/L		110	37 - 127
1,1-Dichloroethane	20.0	20.29		ug/L		101	78 - 125
1,2-Dichloroethane	20.0	19.57		ug/L		98	77 - 121
1,1-Dichloroethene	20.0	22.51		ug/L		113	79 - 124
1,2-Dichloropropane	20.0	19.80		ug/L		99	75 - 120
1,3-Dichloropropane	20.0	20.08		ug/L		100	80 - 125
2,2-Dichloropropane	20.0	18.23		ug/L		91	43 - 161
1,1-Dichloropropene	20.0	20.08		ug/L		100	80 - 122
Ethylbenzene	20.0	19.90		ug/L		100	80 - 130
Hexachlorobutadiene	20.0	20.09		ug/L		100	49 - 146
2-Hexanone	100	100.5		ug/L		101	60 - 142
Isopropylbenzene	20.0	19.86		ug/L		99	80 - 141
Methylene Chloride	20.0	20.93		ug/L		105	79 - 123
4-Methyl-2-pentanone (MIBK)	100	95.45		ug/L		95	60 - 137
Methyl tert-butyl ether	20.0	19.28		ug/L		96	72 - 133
Naphthalene	20.0	19.80		ug/L		99	62 - 138
n-Butylbenzene	20.0	18.98		ug/L		95	68 - 132
N-Propylbenzene	20.0	20.13		ug/L		101	75 - 129
p-Isopropyltoluene	20.0	20.29		ug/L		101	75 - 128
sec-Butylbenzene	20.0	20.00		ug/L		100	76 - 128
Styrene	20.0	21.28		ug/L		106	80 - 127
tert-Butylbenzene	20.0	20.26		ug/L		101	76 - 126
1,1,1,2-Tetrachloroethane	20.0	21.42		ug/L		107	74 - 135
1,1,2,2-Tetrachloroethane	20.0	21.65		ug/L		108	69 - 131
Tetrachloroethene	20.0	22.10		ug/L		110	80 - 126
Toluene	20.0	18.33		ug/L		92	80 - 126
trans-1,2-Dichloroethene	20.0	20.18		ug/L		101	79 - 126

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-153429/4
Matrix: Water
Analysis Batch: 153429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	20.0	17.97		ug/L		90	63 - 134
1,2,3-Trichlorobenzene	20.0	20.86		ug/L		104	62 - 133
1,2,4-Trichlorobenzene	20.0	20.64		ug/L		103	63 - 133
1,1,1-Trichloroethane	20.0	20.11		ug/L		101	78 - 135
1,1,2-Trichloroethane	20.0	21.20		ug/L		106	80 - 124
Trichloroethene	20.0	22.89		ug/L		114	80 - 123
Trichlorofluoromethane	20.0	18.77		ug/L		94	65 - 124
1,2,3-Trichloropropane	20.0	20.71		ug/L		104	70 - 131
1,2,4-Trimethylbenzene	20.0	19.87		ug/L		99	77 - 126
1,3,5-Trimethylbenzene	20.0	19.99		ug/L		100	77 - 127
Vinyl chloride	20.0	20.47		ug/L		102	68 - 120
Xylenes, Total	40.0	38.99		ug/L		97	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Toluene-d8 (Surr)	*86*		*70 - 130*

Lab Sample ID: 490-50030-B-1 MS
Matrix: Water
Analysis Batch: 153429

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250	216.6		ug/L		87	45 - 141
Benzene	ND		50.0	40.39		ug/L		81	75 - 133
Bromobenzene	ND		50.0	42.21		ug/L		84	60 - 138
Bromochloromethane	ND		50.0	52.40		ug/L		105	67 - 139
Bromodichloromethane	ND		50.0	48.79		ug/L		98	70 - 140
Bromoform	ND		50.0	43.08		ug/L		86	42 - 147
Bromomethane	ND		50.0	29.95		ug/L		60	16 - 163
2-Butanone (MEK)	ND		250	222.2		ug/L		89	50 - 138
Carbon disulfide	ND		50.0	17.17	F1	ug/L		34	48 - 152
Carbon tetrachloride	ND		50.0	46.73		ug/L		93	62 - 164
Chlorobenzene	ND		50.0	44.98		ug/L		90	80 - 129
Chlorodibromomethane	ND		50.0	40.33		ug/L		81	66 - 140
Chloroethane	ND		50.0	32.71		ug/L		65	58 - 137
Chloroform	ND		50.0	43.86		ug/L		87	66 - 138
Chloromethane	ND		50.0	37.05		ug/L		74	10 - 169
2-Chlorotoluene	ND		50.0	44.46		ug/L		89	67 - 138
4-Chlorotoluene	ND		50.0	45.57		ug/L		91	69 - 138
cis-1,2-Dichloroethene	ND		50.0	44.89		ug/L		90	68 - 138
cis-1,3-Dichloropropene	ND		50.0	36.99		ug/L		74	71 - 141
1,2-Dibromo-3-Chloropropane	ND		50.0	41.54		ug/L		83	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	42.57		ug/L		85	75 - 137
Dibromomethane	ND		50.0	43.53		ug/L		87	58 - 140
1,2-Dichlorobenzene	ND		50.0	47.81		ug/L		96	79 - 128
1,3-Dichlorobenzene	ND		50.0	47.56		ug/L		95	77 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-50030-B-1 MS
Matrix: Water
Analysis Batch: 153429

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		50.0	45.78		ug/L		92	78 - 126
Dichlorodifluoromethane	ND		50.0	37.17		ug/L		74	40 - 127
1,1-Dichloroethane	ND		50.0	43.40		ug/L		87	71 - 139
1,2-Dichloroethane	ND		50.0	39.56		ug/L		79	64 - 136
1,1-Dichloroethene	ND		50.0	41.86		ug/L		84	70 - 142
1,2-Dichloropropane	ND		50.0	41.23		ug/L		82	67 - 131
1,3-Dichloropropane	ND		50.0	41.18		ug/L		82	72 - 134
2,2-Dichloropropane	ND		50.0	40.42		ug/L		81	37 - 175
1,1-Dichloropropene	ND		50.0	37.54	F1	ug/L		75	76 - 139
Ethylbenzene	ND		50.0	41.50		ug/L		83	79 - 139
Hexachlorobutadiene	ND		50.0	43.16		ug/L		86	45 - 155
2-Hexanone	ND		250	211.7		ug/L		85	50 - 150
Isopropylbenzene	ND		50.0	44.33		ug/L		89	80 - 153
Methylene Chloride	ND		50.0	39.48		ug/L		79	64 - 139
4-Methyl-2-pentanone (MIBK)	ND		250	193.6		ug/L		77	50 - 147
Methyl tert-butyl ether	ND		50.0	40.86		ug/L		82	66 - 141
Naphthalene	ND		50.0	38.31		ug/L		77	55 - 140
n-Butylbenzene	ND		50.0	45.37		ug/L		91	66 - 141
N-Propylbenzene	ND		50.0	45.25		ug/L		91	69 - 142
p-Isopropyltoluene	ND		50.0	46.70		ug/L		93	71 - 137
sec-Butylbenzene	ND		50.0	47.50		ug/L		95	73 - 138
Styrene	ND		50.0	1.719	F1	ug/L		3	61 - 148
tert-Butylbenzene	ND		50.0	47.23		ug/L		94	70 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	47.36		ug/L		95	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	48.06		ug/L		96	56 - 143
Tetrachloroethene	ND		50.0	41.68		ug/L		83	72 - 145
Toluene	ND		50.0	35.71	F1	ug/L		71	75 - 136
trans-1,2-Dichloroethene	ND		50.0	33.80		ug/L		68	66 - 143
trans-1,3-Dichloropropene	ND		50.0	36.78		ug/L		74	59 - 135
1,2,3-Trichlorobenzene	ND		50.0	42.89		ug/L		86	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	45.05		ug/L		90	60 - 136
1,1,1-Trichloroethane	ND		50.0	45.04		ug/L		90	76 - 149
1,1,2-Trichloroethane	ND		50.0	45.05		ug/L		90	74 - 134
Trichloroethene	ND		50.0	46.82		ug/L		93	73 - 144
Trichlorofluoromethane	ND		50.0	40.95		ug/L		82	58 - 139
1,2,3-Trichloropropane	ND		50.0	45.97		ug/L		92	53 - 144
1,2,4-Trimethylbenzene	ND		50.0	44.49		ug/L		89	69 - 136
1,3,5-Trimethylbenzene	ND		50.0	36.05		ug/L		72	69 - 139
Vinyl chloride	ND		50.0	34.76		ug/L		70	56 - 129
Xylenes, Total	ND		100	82.75		ug/L		83	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Toluene-d8 (Surr)	*83*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-50030-C-1 MSD
Matrix: Water
Analysis Batch: 153429

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	219.7		ug/L		88	45 - 141	1	21
Benzene	ND		50.0	41.33		ug/L		83	75 - 133	2	17
Bromobenzene	ND		50.0	44.31		ug/L		89	60 - 138	5	20
Bromochloromethane	ND		50.0	52.80		ug/L		106	67 - 139	1	17
Bromodichloromethane	ND		50.0	50.34		ug/L		101	70 - 140	3	18
Bromoform	ND		50.0	44.68		ug/L		89	42 - 147	4	16
Bromomethane	ND		50.0	34.01		ug/L		68	16 - 163	13	50
2-Butanone (MEK)	ND		250	218.6		ug/L		87	50 - 138	2	19
Carbon disulfide	ND		50.0	18.26	F1	ug/L		37	48 - 152	6	21
Carbon tetrachloride	ND		50.0	48.21		ug/L		96	62 - 164	3	19
Chlorobenzene	ND		50.0	47.59		ug/L		95	80 - 129	6	14
Chlorodibromomethane	ND		50.0	43.05		ug/L		86	66 - 140	7	15
Chloroethane	ND		50.0	33.34		ug/L		67	58 - 137	2	20
Chloroform	ND		50.0	44.46		ug/L		88	66 - 138	1	18
Chloromethane	ND		50.0	37.38		ug/L		75	10 - 169	1	31
2-Chlorotoluene	ND		50.0	47.30		ug/L		95	67 - 138	6	17
4-Chlorotoluene	ND		50.0	48.01		ug/L		96	69 - 138	5	18
cis-1,2-Dichloroethene	ND		50.0	45.72		ug/L		91	68 - 138	2	17
cis-1,3-Dichloropropene	ND		50.0	39.61		ug/L		79	71 - 141	7	15
1,2-Dibromo-3-Chloropropane	ND		50.0	46.21		ug/L		92	52 - 126	11	24
1,2-Dibromoethane (EDB)	ND		50.0	44.94		ug/L		90	75 - 137	5	15
Dibromomethane	ND		50.0	43.37		ug/L		87	58 - 140	0	16
1,2-Dichlorobenzene	ND		50.0	50.75		ug/L		102	79 - 128	6	15
1,3-Dichlorobenzene	ND		50.0	50.40		ug/L		101	77 - 131	6	15
1,4-Dichlorobenzene	ND		50.0	48.83		ug/L		98	78 - 126	6	15
Dichlorodifluoromethane	ND		50.0	37.35		ug/L		75	40 - 127	0	18
1,1-Dichloroethane	ND		50.0	43.98		ug/L		88	71 - 139	1	17
1,2-Dichloroethane	ND		50.0	40.96		ug/L		82	64 - 136	3	17
1,1-Dichloroethene	ND		50.0	41.69		ug/L		83	70 - 142	0	17
1,2-Dichloropropane	ND		50.0	44.22		ug/L		88	67 - 131	7	17
1,3-Dichloropropane	ND		50.0	43.53		ug/L		87	72 - 134	6	14
2,2-Dichloropropane	ND		50.0	40.81		ug/L		82	37 - 175	1	18
1,1-Dichloropropene	ND		50.0	38.45		ug/L		77	76 - 139	2	17
Ethylbenzene	ND		50.0	44.58		ug/L		89	79 - 139	7	15
Hexachlorobutadiene	ND		50.0	50.78		ug/L		102	45 - 155	16	23
2-Hexanone	ND		250	226.0		ug/L		90	50 - 150	6	15
Isopropylbenzene	ND		50.0	47.44		ug/L		95	80 - 153	7	16
Methylene Chloride	ND		50.0	41.61		ug/L		83	64 - 139	5	17
4-Methyl-2-pentanone (MIBK)	ND		250	204.3		ug/L		82	50 - 147	5	17
Methyl tert-butyl ether	ND		50.0	42.28		ug/L		85	66 - 141	3	16
Naphthalene	ND		50.0	48.05		ug/L		96	55 - 140	23	26
n-Butylbenzene	ND		50.0	49.13		ug/L		98	66 - 141	8	18
N-Propylbenzene	ND		50.0	48.59		ug/L		97	69 - 142	7	17
p-Isopropyltoluene	ND		50.0	50.68		ug/L		101	71 - 137	8	16
sec-Butylbenzene	ND		50.0	50.69		ug/L		101	73 - 138	6	16
Styrene	ND		50.0	1.805	F1	ug/L		4	61 - 148	5	24
tert-Butylbenzene	ND		50.0	50.63		ug/L		101	70 - 138	7	16
1,1,1,2-Tetrachloroethane	ND		50.0	50.98		ug/L		102	73 - 141	7	16

Method Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Mabbett & Associates, Inc.
Project/Site: Bodycote Thermal Processing

TestAmerica Job ID: 490-50034-1
SDG: 1998002.329, Task 004 HTB

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	200010	12-09-14

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-50034 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 4/3/2014 @ 0715

1. Tracking # 9149 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 5.6 *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) CM

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) MBM

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) MBM

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) MBM

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIR

Loc: 490
50034
4/10/2014

Client Information	Sampler: Mabbett	Lab PM: Hayes, Ken	Carrier Tracking No(s): 5034 0880 9149	COC No: 490-23465-8657.1
Client Contact: Christopher Mabbett	Phone:	E-Mail: ken.hayes@testamericainc.com		Page: Page 1 of 2
Company: Mabbett & Associates, Inc.				Job #:

Address: 5 Alfred Circle	Due Date Requested: Std	Analysis Requested
City: Bedford	TAT Requested (days):	
State, Zip: MA, 01730		
Phone: 7812756050	PO #: Purchase Order Requested 4971	
Email: cmabbett@mabbett.com	WO #:	
Project Name: Proj. No. 1998002.329, Task 004 HTB	Project #: 49002697	
Site:	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2S03, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Standard 8260 List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TB-02-040114	4/1/14	0730	G	Water			X	2	1
MCA-5-040114	4/1/14	1410	G	Water			X	2	2
M2A-104-040114	4/1/14	1150	G	Water			X	2	3
M2A-111-040114	4/1/14	1500	G	Water			X	2	4
M2A-112-040214	4/2/14	0915	G	Water			X	2	5
M2A-115-040214	4/2/14	0830	G	Water			X	2	6
M2A-116-040114	4/1/14	0925	G	Water			X	2	7
M2A-122-040214	4/2/14	0800	G	Water			X	2	8
M2A-126-040114	4/1/14	1645	G	Water			X	2	9
FD-HTB-040114	4/1/14	1720	G	Water			X	2	10
				Water					

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 4-2-14 1200	Company MAB & ASSOC	Received by:	Date/Time: 4/3/14 0715	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.6c

Login Sample Receipt Checklist

Client: Mabbett & Associates, Inc.

Job Number: 490-50034-1
SDG Number: 1998002.329, Task 004 HTB

Login Number: 50034
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	