Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

July 27, 2016

Attn.: Mr. Theron Grim
Umicore USA, Inc.
3600 Glenwood Ave., Ste. 250
Raleigh, NC 27612-4945

Re: Notice of No Further Action
15A NCAC 2L .0106
Corrective Action

Umicore AST Release (AOC-5)
17180 Airport Road
Maxton, Robeson County
Incident Number: 90209
Ranking: Low

Dear Mr. Grim:

The Soil & Groundwater Assessment and Site Closure Report received by the UST Section, Division of Waste Management, Fayetteville Regional Office on July 27, 2016 has been reviewed. A review of the report indicates that soil contamination does not exceed the soil-to-groundwater maximum soil contaminant concentrations (MSCCs) and that petroleum contaminated groundwater has been cleaned up to the level of the standards or interim standards established in Title 15A NCAC 2L.0202.

Based on information provided to date, the UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

This No Further Action determination applies only to the subject petroleum incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact Kenneth Currie at the Fayetteville Regional Office address or telephone number listed below.

Sincerely,

for

Wayne Randolph, Regional Supervisor
Fayetteville Regional Office
UST Section, Division of Waste Management, NCDEQ

cc: Mr. William M. Flinchum, P.G., Duncklee & Dunham, Cary, NC *(via email attachment)*
Mr. David L. Duncklee, P.G., R.S.M, Duncklee & Dunham, Cary, NC *(via email attachment)*
Ms. Janet MacDonald, NCDEQ – IHSB, Raleigh, NC *(via email attachment)*

Macdonald, Janet K

From: Currie, Ken
Sent: Wednesday, July 27, 2016 2:36 PM
To: Macdonald, Janet K
Subject: FW: Umicore, Maxton

Categories: To be uploaded to CARA

Ok….spoke with Matt Flinchum with Duncklee and he said it would be most helpful to them if I created the separate petroleum incident number and closed it out. The title of the incident will reference AOC5 which he stated is mentioned quite often in the reports submitted to you. This will clear up the petroleum issue and get it off the table so it will not be confused in any future reporting or site activities. I hope this is acceptable with you. I will copy you on the No Further Action letter.

Kenneth E. Currie
Hydrogeologist
Division of Waste Management / UST Section
North Carolina Department of Environmental Quality

(910) 433-3347 Office

ken.currie@ncdenr.gov

Fayetteville Regional Office
225 Green Street, Suite 714
Fayetteville, NC 28301-5043

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Currie, Ken
Sent: Wednesday, July 27, 2016 2:22 PM
To: Macdonald, Janet K <janet.macdonald@ncdenr.gov>
Subject: Umicore, Maxton

Hi Janet,

I looked at the Duncklee & Dunham report again today regarding the above ground storage tank release and it jogged a distant memory. I went into a "suspense" file box where things are reported and further work will proceed at a later time and low & behold there was the report from Duncklee that started this chain of events. It is a Soil Excavation & Site Closure Request that we received at the FRO on 5/24/12. I was trying to recall why no incident number had been created and it may have had something to do with the REC program….just can't recall. But, I did make email responses back to them regarding issues that I saw in being able to issue a No Further Action based on the soil sample data they had provided. There were as many as 5 target compounds exceeding our soil-to-groundwater maximum concentrations, albeit very minor. From an email in July 2013, a P.G. for Duncklee messaged me and stated they would give natural attenuation a few years and they would resample.

So that is what this latest report is documenting. Now I/we need to figure out what to do. It seems the responsible party may want UST to handle the petroleum release while IHSB continues to handle the remaining environmental issues. As stated, the UST Section has never issued an incident number, but it would only take me a skinny minute to assign one and then turn around and close it. I don't want to interfere with anything you have going with the IHSB though. Please let me know what you prefer or if it even matters and then I will double check with Duncklee and ensure they intend on the UST Section issuing and closing out an incident number.

Thanks and sorry for my memory lapse. UST cycles through numerous sites and it's difficult to keep track, especially from 3-4 years ago.

Kenneth E. Currie
Hydrogeologist
Division of Waste Management / UST Section
North Carolina Department of Environmental Quality

(910) 433-3347 Office

ken.currie@ncdenr.gov

Fayetteville Regional Office
225 Green Street, Suite 714
Fayetteville, NC 28301-5043

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Macdonald, Janet K

From: Matt Flinchum <matt@dunckleedunham.com>
Sent: Monday, July 25, 2016 1:07 PM
To: Currie, Ken
Cc: Macdonald, Janet K; Grim, Theron; 'Dave Duncklee'
Subject: AST Closure Report - Umicore Facility, Maxton NC
Attachments: Site Closure Report - 15304 E-Copy.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon, Ken,
Attached to this email is a copy of the Soil and Groundwater Assessment and Site Closure Report in regards to the aboveground storage tank located at the Umicore facility in Maxton, North Carolina. This site is currently being managed under the REC program. The attached report summarizes the strong decreasing trends in soil and groundwater contaminant concentrations that ultimately exhibited concentrations below the soil-to-groundwater MSCCs and 2L standards during the most recent sampling activities, respectively. Based on the information presented in the attached report, Duncklee & Dunham requests NCDEQ issue a NFA determination for this site.

A paper copy with a CD has been sent to you in the mail today.

Please let me know if you have any questions or require additional information.

Best regards,

William M. "Matt" Flinchum, P.G.
Project Geologist
Duncklee & Dunham, P.C.
511 Keisler Drive, Suite 102
Cary, North Carolina 27518
Mobile: 704-694-8359
Office: 919-858-9898 x 206
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July 25, 2016

Theron Grim
Umicore USA, Inc.
3600 Glenwood Avenue, Suite 250
Raleigh, North Carolina, 27612-4945

Reference: **Soil and Groundwater Assessment and Site Closure Report**
Aboveground Storage Tank
Umicore Facility
17180 Airport Road
Maxton, Scotland County, North Carolina

Dear Mr. Grim:

Duncklee & Dunham, P.C. (Duncklee & Dunham) is pleased to submit this *Soil and Groundwater Assessment and Site Closure Report* for the above-referenced site. Duncklee & Dunham reported a release from an aboveground storage tank (AST) system in March 2009. We subsequently excavated contaminated soil from the unsaturated zone, treated the soil, and conducted periodic monitoring of soil and groundwater conditions from 2010 through 2015. Soil and groundwater currently do not exhibited analytes at concentrations that exceed the North Carolina quality standards. Based on the information presented in this report, we recommend requesting the North Carolina Department of Environmental Quality (DEQ) prepare a No Further Action designation for this release.

This report supplements requirements for the site stipulated in the Administrative Agreement between Umicore and the DEQ (AA Docket Number 09-SF-311) dated October 7, 2009, under the Registered Environmental Consultant program.

Please contact Mr. Dave Duncklee at dave@dunckleedunham.com or 919-858-9898 if you have any questions.

Sincerely,

Duncklee & Dunham, P.C.

Russell Molyneux
Project Geologist

William M. Flinchum, P.G.
Project Geologist

Senior Peer Review:

Donald R. Malone, P.E.
Director of Assessment & Remediation

NORTH CAROLINA LICENSED SEAL 2489 GEOLOGIST WILLIAM M. FLINCHUM

cc: Mr. Kenneth Currie – NCDEQ, DWM, UST, Fayetteville Regional
Ms. Janet Macdonald – NCDEQ IHSB, Raleigh

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Soil and Groundwater Assessment and Site Closure Report
Aboveground Storage Tank
Umicore Facility
Maxton, Scotland County, North Carolina
July 25, 2016

1 Background and Release Information

The Umicore USA Inc. (Umicore) facility is located at 17180 Airport Road in Maxton, Scotland County, North Carolina (Figure 1). An aboveground storage tank (AST), also known as Area of Concern 5 (AOC5) in the ongoing assessment conducted by Duncklee & Dunham for the Inactive Hazardous Sites Branch (IHSB), was located adjacent to the main plant manufacturing area that was demolished in March 2010. This AST was located on the northern side of the manufacturing facility between an asphalt drive and the northern wall of the main plant (Figure 2). Umicore had planned to redevelop this area of the plant for continued industrial use, and as such, the former Main Cobalt Manufacturing Plant and the surrounding area have since been demolished. The AST had a capacity of 1,300 gallons and was used to store No. 2 fuel oil. It was installed in 1981 and was used as a day tank to supply fuel for industrial boilers, which were located adjacent to the Cobalt Manufacturing Storage Area of the main plant. This AST was supplied by a 60,000-gallon AST that was located approximately 110 feet northwest. This larger AST was inside a berm and delivered fuel oil to the day tank through overhead piping.

Based on conversations with Umicore personnel, the source of the soil impact west of the day tank was most likely the result of incidental overspills and leaks from daily operations from 1981 to 2009. Duncklee & Dunham did not identify a specific leak or spill near the 1,300-gallon AST.

1.1 Previous Assessment Activities

Environmental Resource Management (ERM) conducted an assessment in May 2008, and documented the results in a report titled *Phase I and II Environmental Site Assessment* and dated March 9, 2009. ERM advanced direct-push borings B-4, B-5, and B-8 in the vicinity of the bulk and day tank ASTs to the water table. ERM then collected soil samples from the borings and groundwater samples from temporary wells constructed in the borings. Soil samples collected at 16 to 18 feet below land surface (ft bls) exhibited total petroleum hydrocarbons (TPH) diesel range organics (DRO) at concentrations between 0.55 to 19 milligrams per kilogram (mg/kg). The North Carolina Department of Environment and Natural Resources (NCDENR) has established an action level of 40 mg/kg for petroleum releases from systems that are not underground storage tanks. Thus, the concentrations detected did not exceed this action level. The groundwater samples exhibited TPH-DRO at concentrations that ranged from 0.023 to 0.046 milligrams per liter (mg/L). North Carolina has not established a groundwater quality standard for TPH-DRO in groundwater. ERM did not detect free product in the three wells.

1.2 Previous Assessment and Treatment Activities by Duncklee & Dunham

Duncklee and Dunham submitted a *Soil Excavation and Site Closure Report* on May 23, 2012, which outlined our previous assessments and soil remediation activities completed at the subject site.

Work summarized in the report included technical oversight of the excavation, sampling and removal of TPH-contaminated soil that exceeded action levels, and laboratory testing results of soil and groundwater samples. Following site remediation, the groundwater samples did not exhibit analytes at concentrations that exceeded the North Carolina groundwater quality standards. Our report was submitted to the North Carolina Department of Environmental Quality (NCDEQ, formerly NCDENR) Division of Waste Management – UST Section, with a request that a No Further Action (NFA) designation for this release be prepared.

In subsequent email correspondence dated December 11, 2012, Mr. Ken Currie from the NCDEQ's UST Section outlined concerns about TPH concentrations in soil samples CS-9, CS-14, and CS-24. He requested the collection of additional samples at these locations to confirm that TPH concentrations did not exceed 10 mg/kg and/or were lower than the soil-to-groundwater maximum contaminant concentration (MSCC). Therefore, Duncklee and Dunham collected additional samples immediately adjacent to borings CS-14 and CS-24 on June 6, 2013, and submitted these for laboratory testing. Test results showed soil collected from CS-14 did not exhibit TPH at concentrations that exceed 10 mg/kg. CS-24 exhibited TPH concentrations greater than 10 mg/Kg, although a significant decrease in the TPH-DRO concentration was noted when compared with results obtained from the 2010 sampling event. This data was emailed to Mr. Currie on July 15, 2013, and we agreed to re-sample CS-24 at a future date.

The following report summarizes the soil and groundwater assessment activities conducted in August 2015 to re-assess petroleum constituent concentrations in comparison to applicable standards.

2 Soil Assessment

Duncklee & Dunham advanced a soil boring at the CS-24 location on August 31, 2015, using a hand auger (Figure 3). We collected a soil sample from 15.5 feet bls and placed the sample in laboratory-provided containers. We immediately placed the containers in an iced cooler and delivered under chain-of-custody control to a courier for ESC Lab Sciences (ESC). All non-dedicated sampling equipment used to collect a sample from the soil boring were decontaminated following procedures outlined in to U.S. Environmental Protection Agency (EPA) Region 4 *Groundwater Sampling Operating Procedures*, October 2011.

ESC tested the sample for TPH-DRO and -GRO according to EPA Method 8015D, volatile organic compounds (VOCs) according to EPA Method 8260B, and for semivolatile organic compounds (SVOCs) according to EPA Method 8270C. Table 1 summarizes the results of the laboratory testing of the soil samples. ESC did not detect constituents at concentrations that exceeded their respective maximum soil contaminant concentrations (MSCCs) during the August 31, 2015 sampling event. The chain of custody and laboratory report are in Appendix A.

3 Groundwater Assessment

Duncklee & Dunham collected groundwater samples from MW-12 and MW-12B on August 31, 2015 (Figure 3) using low-flow minimal-drawdown groundwater sampling techniques, which minimized drawdown in the well and helped ensure the collection of representative groundwater samples.

We discharged the water into laboratory-supplied containers, immediately placed in iced coolers, and delivered to an ESC courier for shipment to their laboratory under chain-of-custody control. In accordance with NCDEQ requirements, ESC tested the groundwater samples by Massachusetts Department of Environmental Protection Methods Extractable Petroleum Hydrocarbons and Volatile Petroleum Hydrocarbons, VOCs by EPA Method 602+Xylenes, and SVOCs by EPA Method 625+Tentatively Identified Compounds. All sampling equipment and instrumentation were decontaminated following the procedures outlined in EPA Region 4 *Groundwater Sampling Operating Procedures*, October 2011.

Table 2 summarizes the laboratory test results. ESC did not detect petroleum constituents at concentrations that exceed their respective North Carolina groundwater quality standards promulgated in 15A NCAC 2L .0202 (2L Standards).

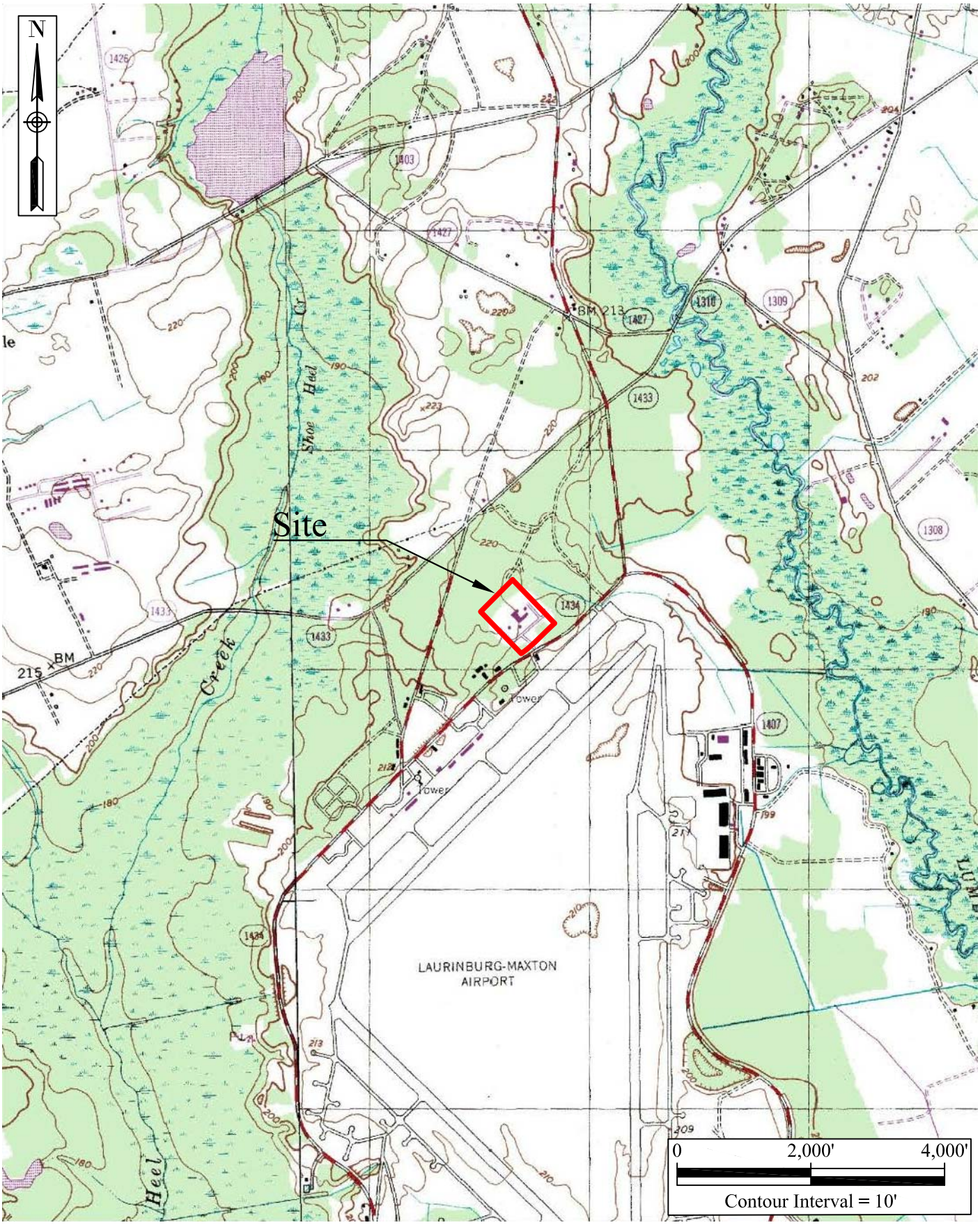
4 Conclusions and Recommendations

Based on the information presented above, Duncklee & Dunham concludes the following:

- Laboratory test results show soil sampled from CS-24 15.5 ft bls did not exhibit TPH at a concentration that exceed the respective action level. This result, viewed in conjunction with historic results from soil samples collected and tested in 2010 and 2013, shows a strong trend of decreasing petroleum constituent concentrations over time (Table 1).
- Groundwater samples from MW-12 and MW-12B do not exhibited petroleum constituents at concentrations that exceed the groundwater quality standards. These results, viewed in conjunction with historic results from previous sampling events from 2011 through 2013, show a strong trend of decreasing petroleum constituent concentrations over time (Table 2).

Based on the information contained herein, Duncklee & Dunham respectfully requests NCDEQ issue a NFA determination for this site, and subsequently close the incident file.

Figures



DUNCKLEE & DUNHAM
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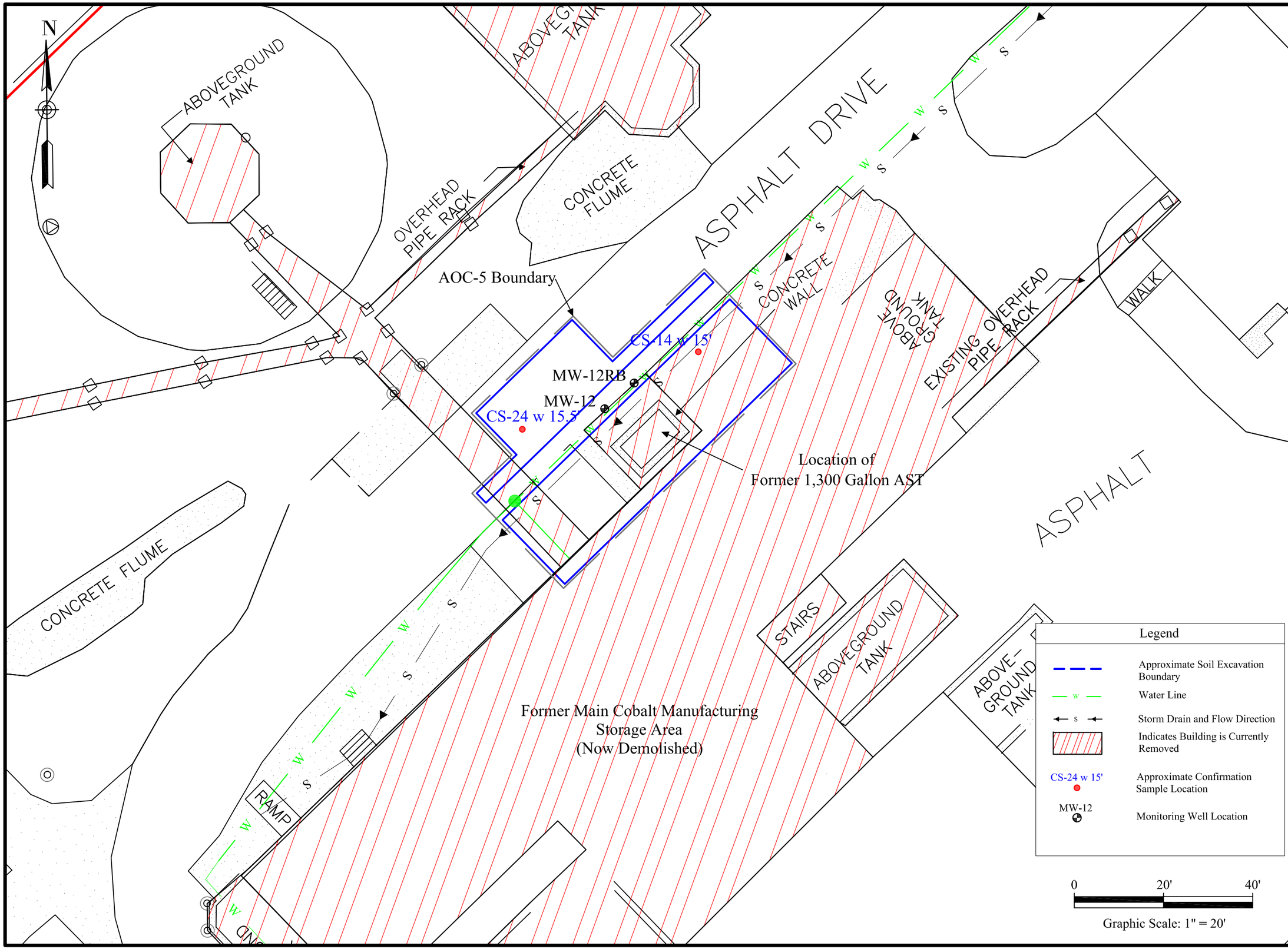
Site Topographic Map

Umicore Facility
Maxton, North Carolina

Drawn By:	Checked By:	Project Number:	Date:	References:
wmf/rnl	rm	200917	November 2015	USGS Maxton Quad 1982
Scale:	Size:	Layers:	Filename:	
1" = 2,000'	8.5" x 11"	0,1	P:\Umicore\Maxton - 200917\8 Field and Tech\8.8 Cad and GIS Maps\Umicore Facility\Figure 1	

Figure

1



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AOC 5 - Site Location Map

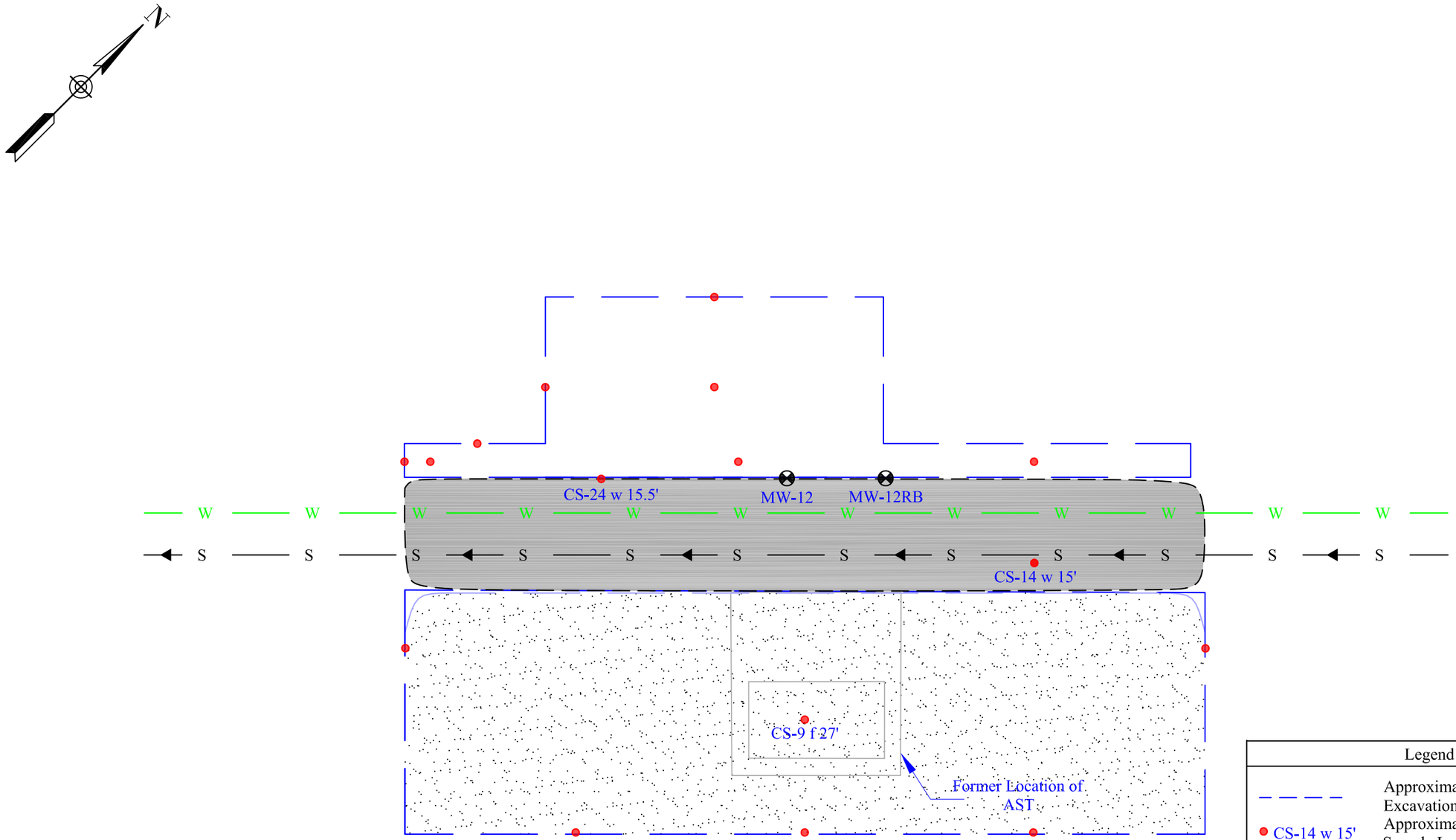
Umicore Facility
Maxton, North Carolina

References: Base map provided by Umicore, Field Notes

Drawn By: wmf/rnl	Checked By: rm	Project Number: 200917	Date: November 2015
Scale: 1" =20'	Size: 11" x 17"	Layers: 0,3, 30	Filename: P:\Umicore\Maxton - 200917\8 Field-Techn\8.8 CAD and GIS Maps\OnSite\AOC 5 and Soil Pile

Figure

2



Legend	
	Approximate Soil Excavation Boundary
CS-14 w 15'	Approximate Confirmation Sample Location
MW-12	Location of Monitoring Well
W	Water Line
S	Stormwater Drain and Flow Direction
	Approximate Area of RegenOx Application (July 2010)
	Area of ORC Application in floor of Excavation (July 2010)

Note: (w) and (f) denote wall and floor, (10'), (15'), and (20') denote depth at which sample was collected

0 10' 20'

Graphic Scale: 1" = 10'

DUNCKLEE & DUNHAM
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AOC 5 - Soil Sample Locations and Results

Umicore Facility
Maxton, North Carolina

References: Base map provided by Umicore, Field Notes

Drawn By: wmf/rnl	Checked By: rm	Project Number: 200917	Date: November 2015
Scale: 1" =10'	Size: 11" x 17"	Layers: 0,3,45	Filename: J:\projects\Maxton - 200917\8 Field-Techn\8.8 CAD and GIS Maps\OnSite\AOC 5 and Soil Pile

Figure

3

Tables

Table 1
Historical Laboratory Data Comparison
Soil Samples from Former AST Area
Umicore Facility
Maxton, North Carolina

Analytical Method	Sample ID → / Sample Date→	CS-14-15' 8/1/2010	CS-14 16FT 6/5/2013	CS-24-15' 8/1/2010	CS-24 16FT 6/6/2013	CS-24 15.5' 8/31/2015	Soil-to-Groundwater MSCC	Industrial/Commercial MSCC
Total Petroleum Hydrocarbons	Low Fraction	**90**	1.0 J	**53**	**49**	<0.0217	10	NE
	High Fraction	**4,000**	<0.77	**6,100**	**930**	<0.769	40	NE
Volatile Organic Compounds	n-Butylbenzene	NT	NT	NT	**0.14**	<0.000258	4.3	16,350
	sec-Butylbenzene	NT	NT	NT	**0.095**	<0.000201	3.3	16,350
	tert-Butylbenzene	NT	NT	NT	**0.0056**	<0.000206	3.4	16,350
	Ethylbenzene	NT	NT	NT	**0.094**	<0.000297	4.9	40,000
	Isopropylbenzene	NT	NT	NT	**0.069**	<0.000243	1.7	40,880
	p-Isopropyltoluene	NT	NT	NT	**0.13**	<0.000204	0.12	4,000
	Naphthalene	NT	NT	NT	**1.0**	<0.00566	0.16	8,176
	n-Propylbenzene	NT	NT	NT	**0.13**	<0.00113	1.7	16,350
	Toluene	NT	NT	NT	0.00093 J	<0.00566	4.3	32,000
	1,2,4-Trimethylbenzene	NT	NT	NT	**0.56**	<0.000211	8.5	20,440
	1,2,3-Trimethylbenzene	NT	NT	NT	**0.26**	<0.000287	NE	NE
	1,3,5-Trimethylbenzene	NT	NT	NT	**0.23**	<0.000266	8.3	20,440
	Xylenes, Total	NT	NT	NT	**0.25**	<0.000698	4.6	81,760
Semi-Volatile and Extractable Petroleum Hydrocarbons	C5-C8 Aliphatics	NT	NT	NT	3.0 J	1.87 J	68	24,528
	C9-C18 Aliphatics	NT	NT	NT	**603.9**	<1.17	540	40,000
	C19-C36 Aliphatics	NT	NT	NT	**160**	1.91 J	NE	810,000
	C9-C22 Aromatics	NT	NT	NT	**361.5**	2.715 J	31	12,264
Base/Neutral Extractables	Acenaphthene	NT	NT	NT	**0.81**	<0.00642	8.2	24,000
	Anthracene	NT	NT	NT	0.59 J	<0.00632	940	122,000
	Isophorone	NT	NT	NT	0.14 J	<0.00522	NE	NE
	Naphthalene	NT	NT	NT	**1.8**	<0.00889	0.16	8,176
	Phenanthrene	NT	NT	NT	**2.1**	<0.00528	56	12,264

Notes:

Concentrations in mg/Kg

J - Estimated value below the lowest calibration point.

NE - Not established

NT - Not tested for this analyte

Bold Value - Analyte detected at a concentration that exceeds the method detection limit (MDL)

Bold Value and Shaded Cell - Analyte detected at a concentration that exceeds the action level of 10 mg/Kg or soil-to-groundwater MSCC shown.

Table 2
Summary of Laboratory Test Results, Groundwater Samples
Aboveground Storage Tank
Umicore Facility
Maxton, North Carolina

Method		602MS		602MS		625		625		625		625		625		625		MADEPV and MADEPE							
Parameter		Benzene		Ethylbenzene		Acenaphthene		Fluorene		Naphthalene		Phenanthrene		Bis(2-ethylhexyl)phthalate		Di-n-butyl phthalate		Volatile and Extractable Petroleum Hydrocarbons							
																		C5-C8 Aliphatics		C9-C18 Aliphatics		C19-C36 Aliphatics		C11-C22 Aromatics	
2L Standard		1		600		80		300		6		200		3		700		400		700		10,000		200	
Sample ID	**Collect Date**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**
MW-12	2/3/2011	<1.0		0.55		**2.2**		**3.2**		**6.1**		**3.5**		<1.0		<1.0		NT		NT		NT		NT	
	4/6/2011	NT		NT		**1.2**		**1.6**		**4.4**		**2.6**		<1.0		<1.0		NT		NT		NT		NT	
	7/27/2011	NT		NT		**2.0**		**3.3**		**4.7**		**4.3**		<1.0		<1.0		NT		NT		NT		NT	
	10/12/2011	NT		NT		**1.8**		**2.7**		**2.4**		**5.6**		<1.0		<1.0		NT		NT		NT		NT	
	2/9/2012	NT		NT		NT		NT		**1.7**		NT		NT		NT		NT		NT		NT		NT	
	4/4/2013	<1.0		NT		<1.0		<1.0		<1.0		<1.0		<3.0		NT		NT		NT		NT		NT	
	8/31/2015*	<0.331		<0.384		<0.316		<0.323		<0.372		<0.366		1.49	J	1.28	J	13.3	J	<14.0		19.9	J	36.6	J
MW-12RB	2/3/2011	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		**1.5**		<1.1		NT		NT		NT		NT	
	8/31/2015*	<0.331		0.503	J	<0.316		<0.323		<0.372		NT		1.07	J	<0.266		12.8	J	14.1	J	15.6	J	<21.1	
MW-12RB-DUP	2/3/2011	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		**1.2**		<1.0		NT		NT		NT		NT	

Notes:

Only constituents detected above the laboratory Reported Detection Limit (RDL) are shown.
All values expressed in micrograms per liter (ug/L).
2L Standard - North Carolina groundwater quality standards promulgated in 15A NCAC 2L .0202
Bold values indicate result is above the RDL.
Bold value and shaded cell indicate concentration exceeds the 2L Standard.
The associated trip blanks indicated no detections above the Method Detection Limit (MDL).
NT - Not Tested
4/4/2013 sample went through full VOC tests, and results are all below detection limit.
* Method Detection Limit (MDL) values.
J - The identification of the analyte is acceptable; the reported value is an estimate.

Appendix A

ANALYTICAL REPORT

September 14, 2015

Duncklee and Dunham

Sample Delivery Group:	L786448
Samples Received:	09/02/2015
Project Number:	200917
Description:	Umicore Maxton Facility
Site:	MAXTON, NC
Report To:	Matt Flinchum/Dave Duncklee PO Box 639 Cary, NC 27512

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MW-12B L786448-02 9

MW-12 L786448-03 11

TRIP BLANK L786448-04 13

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Total Solids by Method 2540 G-2011 15

Volatile Petroleum Hydrocarbons by Method MADEPV 16

Volatile Organic Compounds (GC) by Method 8015D/GRO 18

Volatile Organic Compounds (GC/MS) by Method 602MS 19

Volatile Organic Compounds (GC/MS) by Method 8260B 22

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO 32

Semi-Volatile Organic Compounds (GC) by Method MADEPE 33

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CS-25 15.5FT L786448-01 Solid

Collected by: Hanks/Molyneux | Collected date/time: 08/31/15 11:50 | Received date/time: 09/02/15 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG813183	1	09/03/15 08:12	09/03/15 18:58	KMP
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG813407	1	09/08/15 21:02	09/09/15 11:31	CLG
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814110	1	09/09/15 00:23	09/10/15 03:49	CLG
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814110	1	09/09/15 00:23	09/10/15 04:10	CLG
Total Solids by Method 2540 G-2011	WG813160	1	09/03/15 12:26	09/04/15 07:15	KDW
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG813496	1	09/04/15 09:06	09/04/15 23:13	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813840	1	09/10/15 01:07	09/10/15 07:16	MCB
Volatile Petroleum Hydrocarbons by Method MADEPV	WG812917	34	09/03/15 16:42	09/03/15 16:42	MCB

MW-12B L786448-02 GW

Collected by: Hanks/Molyneux | Collected date/time: 08/31/15 13:20 | Received date/time: 09/02/15 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 625	WG813193	1	09/03/15 18:38	09/04/15 09:34	ADF
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814033	1	09/08/15 14:04	09/09/15 02:17	CLG
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814033	1	09/08/15 14:04	09/09/15 14:06	CLG
Volatile Organic Compounds (GC/MS) by Method 602MS	WG813799	1	09/06/15 21:09	09/06/15 21:09	MCB
Volatile Organic Compounds (GC/MS) by Method 602MS	WG814061	1	09/09/15 17:54	09/09/15 17:54	KLO
Volatile Petroleum Hydrocarbons by Method MADEPV	WG814136	1	09/11/15 16:22	09/11/15 16:22	KLO

MW-12 L786448-03 GW

Collected by: Hanks/Molyneux | Collected date/time: 08/31/15 15:40 | Received date/time: 09/02/15 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 625	WG813193	1	09/03/15 18:38	09/04/15 09:57	ADF
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814033	1	09/08/15 14:04	09/09/15 02:38	CLG
Semi-Volatile Organic Compounds (GC) by Method MADEPE	WG814033	1	09/08/15 14:04	09/09/15 13:45	CLG
Volatile Organic Compounds (GC/MS) by Method 602MS	WG813799	1	09/06/15 21:28	09/06/15 21:28	MCB
Volatile Petroleum Hydrocarbons by Method MADEPV	WG814136	1	09/11/15 17:03	09/11/15 17:03	KLO

TRIP BLANK L786448-04 GW

Collected by: Hanks/Molyneux | Collected date/time: 08/31/15 00:00 | Received date/time: 09/02/15 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813630	1	09/06/15 13:10	09/06/15 13:10	KLO

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	09/04/2015 07:15	WG813160

Volatile Petroleum Hydrocarbons by Method MADEPV

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Volatile Petroleum Hydrocarbons	2.04	J	0.452	3.85	34	09/03/2015 16:42	WG812917
C5-C8 Aliphatics	1.87	J	0.452	3.85	34	09/03/2015 16:42	WG812917
C9-C12 Aliphatics	0.561	J	0.244	3.85	34	09/03/2015 16:42	WG812917
C9-C10 Aromatics	0.395	J	0.246	3.85	34	09/03/2015 16:42	WG812917
(S) 2,5-Dibromotoluene(FID)	*91.0*			*70.0-130*		*09/03/2015 16:42*	WG812917
(S) 2,5-Dibromotoluene(PID)	*89.2*			*70.0-130*		*09/03/2015 16:42*	WG812917

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.113	1	09/04/2015 23:13	WG813496
(S) α,α,α-Trifluorotoluene(FID)	*95.1*			*59.0-128*		*09/04/2015 23:13*	WG813496

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0566	1	09/10/2015 07:16	WG813840
Acrylonitrile	U		0.00179	0.0113	1	09/10/2015 07:16	WG813840
Benzene	U		0.000270	0.00113	1	09/10/2015 07:16	WG813840
Bromobenzene	U		0.000284	0.00113	1	09/10/2015 07:16	WG813840
Bromodichloromethane	U		0.000254	0.00113	1	09/10/2015 07:16	WG813840
Bromoform	U		0.000424	0.00113	1	09/10/2015 07:16	WG813840
Bromomethane	U		0.00134	0.00566	1	09/10/2015 07:16	WG813840
n-Butylbenzene	U		0.000258	0.00113	1	09/10/2015 07:16	WG813840
sec-Butylbenzene	U		0.000201	0.00113	1	09/10/2015 07:16	WG813840
tert-Butylbenzene	U		0.000206	0.00113	1	09/10/2015 07:16	WG813840
Carbon tetrachloride	U		0.000328	0.00113	1	09/10/2015 07:16	WG813840
Chlorobenzene	U		0.000212	0.00113	1	09/10/2015 07:16	WG813840
Chlorodibromomethane	U		0.000373	0.00113	1	09/10/2015 07:16	WG813840
Chloroethane	U		0.000946	0.00566	1	09/10/2015 07:16	WG813840
2-Chloroethyl vinyl ether	U		0.00234	0.0566	1	09/10/2015 07:16	WG813840
Chloroform	U		0.000229	0.00566	1	09/10/2015 07:16	WG813840
Chloromethane	U		0.000375	0.00283	1	09/10/2015 07:16	WG813840
2-Chlorotoluene	U		0.000301	0.00113	1	09/10/2015 07:16	WG813840
4-Chlorotoluene	U		0.000240	0.00113	1	09/10/2015 07:16	WG813840
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00566	1	09/10/2015 07:16	WG813840
1,2-Dibromoethane	U		0.000343	0.00113	1	09/10/2015 07:16	WG813840
Dibromomethane	U		0.000382	0.00113	1	09/10/2015 07:16	WG813840
1,2-Dichlorobenzene	U		0.000305	0.00113	1	09/10/2015 07:16	WG813840
1,3-Dichlorobenzene	U		0.000239	0.00113	1	09/10/2015 07:16	WG813840
1,4-Dichlorobenzene	U		0.000226	0.00113	1	09/10/2015 07:16	WG813840
Dichlorodifluoromethane	U		0.000713	0.00566	1	09/10/2015 07:16	WG813840
1,1-Dichloroethane	U		0.000199	0.00113	1	09/10/2015 07:16	WG813840
1,2-Dichloroethane	U		0.000265	0.00113	1	09/10/2015 07:16	WG813840
1,1-Dichloroethene	U		0.000303	0.00113	1	09/10/2015 07:16	WG813840
cis-1,2-Dichloroethene	U		0.000235	0.00113	1	09/10/2015 07:16	WG813840
trans-1,2-Dichloroethene	U		0.000264	0.00113	1	09/10/2015 07:16	WG813840
1,2-Dichloropropane	U		0.000358	0.00113	1	09/10/2015 07:16	WG813840
1,1-Dichloropropene	U		0.000317	0.00113	1	09/10/2015 07:16	WG813840

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,3-Dichloropropane	U		0.000207	0.00113	1	09/10/2015 07:16	WG813840
cis-1,3-Dichloropropene	U		0.000262	0.00113	1	09/10/2015 07:16	WG813840
trans-1,3-Dichloropropene	U		0.000267	0.00113	1	09/10/2015 07:16	WG813840
2,2-Dichloropropane	U		0.000279	0.00113	1	09/10/2015 07:16	WG813840
Di-isopropyl ether	U		0.000248	0.00113	1	09/10/2015 07:16	WG813840
Ethylbenzene	U		0.000297	0.00113	1	09/10/2015 07:16	WG813840
Hexachloro-1,3-butadiene	U		0.000342	0.00113	1	09/10/2015 07:16	WG813840
Isopropylbenzene	U		0.000243	0.00113	1	09/10/2015 07:16	WG813840
p-Isopropyltoluene	U		0.000204	0.00113	1	09/10/2015 07:16	WG813840
2-Butanone (MEK)	U		0.00468	0.0113	1	09/10/2015 07:16	WG813840
Methylene Chloride	U		0.00100	0.00566	1	09/10/2015 07:16	WG813840
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0113	1	09/10/2015 07:16	WG813840
Methyl tert-butyl ether	U		0.000212	0.00113	1	09/10/2015 07:16	WG813840
Naphthalene	U		0.00100	0.00566	1	09/10/2015 07:16	WG813840
n-Propylbenzene	U		0.000206	0.00113	1	09/10/2015 07:16	WG813840
Styrene	U		0.000234	0.00113	1	09/10/2015 07:16	WG813840
1,1,1,2-Tetrachloroethane	U		0.000264	0.00113	1	09/10/2015 07:16	WG813840
1,1,2,2-Tetrachloroethane	U		0.000365	0.00113	1	09/10/2015 07:16	WG813840
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00113	1	09/10/2015 07:16	WG813840
Tetrachloroethene	U		0.000276	0.00113	1	09/10/2015 07:16	WG813840
Toluene	U		0.000434	0.00566	1	09/10/2015 07:16	WG813840
1,2,3-Trichlorobenzene	U		0.000306	0.00113	1	09/10/2015 07:16	WG813840
1,2,4-Trichlorobenzene	U		0.000388	0.00113	1	09/10/2015 07:16	WG813840
1,1,1-Trichloroethane	U		0.000286	0.00113	1	09/10/2015 07:16	WG813840
1,1,2-Trichloroethane	U		0.000277	0.00113	1	09/10/2015 07:16	WG813840
Trichloroethene	U		0.000279	0.00113	1	09/10/2015 07:16	WG813840
Trichlorofluoromethane	U		0.000382	0.00566	1	09/10/2015 07:16	WG813840
1,2,3-Trichloropropane	U		0.000741	0.00283	1	09/10/2015 07:16	WG813840
1,2,4-Trimethylbenzene	U		0.000211	0.00113	1	09/10/2015 07:16	WG813840
1,2,3-Trimethylbenzene	U		0.000287	0.00113	1	09/10/2015 07:16	WG813840
1,3,5-Trimethylbenzene	U		0.000266	0.00113	1	09/10/2015 07:16	WG813840
Vinyl chloride	U		0.000291	0.00113	1	09/10/2015 07:16	WG813840
Xylenes, Total	U		0.000698	0.00339	1	09/10/2015 07:16	WG813840
(S) Toluene-d8	*105*			*88.7-115*		*09/10/2015 07:16*	WG813840
(S) Dibromofluoromethane	*97.2*			*76.3-123*		*09/10/2015 07:16*	WG813840
(S) 4-Bromofluorobenzene	*96.3*			*69.7-129*		*09/10/2015 07:16*	WG813840

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.769	4.52	1	09/09/2015 11:31	WG813407
(S) o-Terphenyl	*71.9*			*50.0-150*		*09/09/2015 11:31*	WG813407

Semi-Volatile Organic Compounds (GC) by Method MADEPE

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	4.24	J	2.14	7.35	1	09/10/2015 04:10	WG814110
C9-C18 Aliphatics	U		1.17	7.35	1	09/10/2015 03:49	WG814110
C19-C36 Aliphatics	1.91	J	0.351	7.35	1	09/10/2015 03:49	WG814110
C11-C22 Aromatics	2.32	J	0.533	7.35	1	09/10/2015 04:10	WG814110
(S) o-Terphenyl	*79.9*			*40.0-140*		*09/10/2015 04:10*	WG814110
(S) 1-Chloro-octadecane	*75.2*			*40.0-140*		*09/10/2015 03:49*	WG814110
(S) 2-Fluorobiphenyl	*83.2*			*40.0-140*		*09/10/2015 04:10*	WG814110
(S) 2-Bromonaphthalene	*86.5*			*40.0-140*		*09/10/2015 04:10*	WG814110

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00642	0.0373	1	09/03/2015 18:58	WG813183
Acenaphthylene	U		0.00671	0.0373	1	09/03/2015 18:58	WG813183
Anthracene	U		0.00632	0.0373	1	09/03/2015 18:58	WG813183
Benzidine	U		0.0637	0.377	1	09/03/2015 18:58	WG813183
Benzo(a)anthracene	U		0.00428	0.0373	1	09/03/2015 18:58	WG813183
Benzo(b)fluoranthene	U		0.00695	0.0373	1	09/03/2015 18:58	WG813183
Benzo(k)fluoranthene	U		0.00582	0.0373	1	09/03/2015 18:58	WG813183
Benzo(g,h,i)perylene	U		0.00721	0.0373	1	09/03/2015 18:58	WG813183
Benzo(a)pyrene	U		0.00548	0.0373	1	09/03/2015 18:58	WG813183
Bis(2-chlorethoxy)methane	U		0.00770	0.377	1	09/03/2015 18:58	WG813183
Bis(2-chloroethyl)ether	U		0.00896	0.377	1	09/03/2015 18:58	WG813183
Bis(2-chloroisopropyl)ether	U		0.00760	0.377	1	09/03/2015 18:58	WG813183
4-Bromophenyl-phenylether	U		0.0114	0.377	1	09/03/2015 18:58	WG813183
2-Chloronaphthalene	U		0.00639	0.0373	1	09/03/2015 18:58	WG813183
4-Chlorophenyl-phenylether	U		0.00627	0.377	1	09/03/2015 18:58	WG813183
Chrysene	U		0.00555	0.0373	1	09/03/2015 18:58	WG813183
Dibenz(a,h)anthracene	U		0.00821	0.0373	1	09/03/2015 18:58	WG813183
3,3-Dichlorobenzidine	U		0.0794	0.377	1	09/03/2015 18:58	WG813183
2,4-Dinitrotoluene	U		0.00607	0.377	1	09/03/2015 18:58	WG813183
2,6-Dinitrotoluene	U		0.00737	0.377	1	09/03/2015 18:58	WG813183
Fluoranthene	U		0.00496	0.0373	1	09/03/2015 18:58	WG813183
Fluorene	U		0.00682	0.0373	1	09/03/2015 18:58	WG813183
Hexachlorobenzene	U		0.00856	0.377	1	09/03/2015 18:58	WG813183
Hexachloro-1,3-butadiene	U		0.0100	0.377	1	09/03/2015 18:58	WG813183
Hexachlorocyclopentadiene	U		0.0587	0.377	1	09/03/2015 18:58	WG813183
Hexachloroethane	U		0.0134	0.377	1	09/03/2015 18:58	WG813183
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0373	1	09/03/2015 18:58	WG813183
Isophorone	U		0.00522	0.377	1	09/03/2015 18:58	WG813183
Naphthalene	U		0.00889	0.0373	1	09/03/2015 18:58	WG813183
Nitrobenzene	U		0.00695	0.377	1	09/03/2015 18:58	WG813183
n-Nitrosodimethylamine	U		0.0647	0.377	1	09/03/2015 18:58	WG813183
n-Nitrosodiphenylamine	U		0.00594	0.377	1	09/03/2015 18:58	WG813183
n-Nitrosodi-n-propylamine	U		0.00906	0.377	1	09/03/2015 18:58	WG813183
Phenanthrene	U		0.00528	0.0373	1	09/03/2015 18:58	WG813183
Benzylbutyl phthalate	U		0.0103	0.377	1	09/03/2015 18:58	WG813183
Bis(2-ethylhexyl)phthalate	U		0.0120	0.377	1	09/03/2015 18:58	WG813183
Di-n-butyl phthalate	U		0.0109	0.377	1	09/03/2015 18:58	WG813183
Diethyl phthalate	U		0.00691	0.377	1	09/03/2015 18:58	WG813183
Dimethyl phthalate	U		0.00540	0.377	1	09/03/2015 18:58	WG813183
Di-n-octyl phthalate	U		0.00907	0.377	1	09/03/2015 18:58	WG813183
Pyrene	U		0.0123	0.0373	1	09/03/2015 18:58	WG813183
1,2,4-Trichlorobenzene	U		0.00876	0.377	1	09/03/2015 18:58	WG813183
4-Chloro-3-methylphenol	U		0.00477	0.377	1	09/03/2015 18:58	WG813183
2-Chlorophenol	U		0.00831	0.377	1	09/03/2015 18:58	WG813183
2,4-Dichlorophenol	U		0.00746	0.377	1	09/03/2015 18:58	WG813183
2,4-Dimethylphenol	U		0.0471	0.377	1	09/03/2015 18:58	WG813183
4,6-Dinitro-2-methylphenol	U		0.124	0.377	1	09/03/2015 18:58	WG813183
2,4-Dinitrophenol	U		0.0980	0.377	1	09/03/2015 18:58	WG813183
2-Nitrophenol	U		0.0130	0.377	1	09/03/2015 18:58	WG813183
4-Nitrophenol	U		0.0525	0.377	1	09/03/2015 18:58	WG813183
Pentachlorophenol	U		0.0480	0.377	1	09/03/2015 18:58	WG813183
Phenol	U		0.00695	0.377	1	09/03/2015 18:58	WG813183
2,4,6-Trichlorophenol	U		0.00779	0.377	1	09/03/2015 18:58	WG813183
(S) 2-Fluorophenol	*60.1*			*21.1-116*		*09/03/2015 18:58*	WG813183
(S) Phenol-d5	*60.6*			*26.3-121*		*09/03/2015 18:58*	WG813183
(S) Nitrobenzene-d5	*55.7*			*21.9-129*		*09/03/2015 18:58*	WG813183

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*64.9*			*34.9-129*		*09/03/2015 18:58*	WG813183
(S) 2,4,6-Tribromophenol	*87.9*			*21.6-142*		*09/03/2015 18:58*	WG813183
(S) p-Terphenyl-d14	*81.7*			*21.5-128*		*09/03/2015 18:58*	WG813183

Volatile Petroleum Hydrocarbons by Method MADEPV

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Volatile Petroleum Hydrocarbons	U		10.8	100	1	09/11/2015 16:22	WG814136
C5-C8 Aliphatics	12.8	J	9.31	100	1	09/11/2015 16:22	WG814136
C9-C12 Aliphatics	11.5	J	7.80	100	1	09/11/2015 16:22	WG814136
C9-C10 Aromatics	14.8	J	10.8	100	1	09/11/2015 16:22	WG814136
(S) 2,5-Dibromotoluene(FID)	*92.8*			*70.0-130*		*09/11/2015 16:22*	WG814136
(S) 2,5-Dibromotoluene(PID)	*92.5*			*70.0-130*		*09/11/2015 16:22*	WG814136

Volatile Organic Compounds (GC/MS) by Method 602MS/8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	09/06/2015 21:09	WG813799
Toluene	U		0.780	5.00	1	09/06/2015 21:09	WG813799
Ethylbenzene	0.503	J	0.384	1.00	1	09/06/2015 21:09	WG813799
Total Xylenes	U		1.06	3.00	1	09/09/2015 17:54	WG814061
Methyl tert-butyl ether	U		0.367	1.00	1	09/06/2015 21:09	WG813799
Di-isopropyl ether	U		0.320	1.00	1	09/06/2015 21:09	WG813799
(S) Toluene-d8	*99.8*			*90.0-115*		*09/06/2015 21:09*	WG813799
(S) Dibromofluoromethane	*89.7*			*79.0-121*		*09/06/2015 21:09*	WG813799
(S) α,α,α-Trifluorotoluene	*111*			*90.4-116*		*09/06/2015 21:09*	WG813799
(S) 4-Bromofluorobenzene	*99.4*			*80.1-120*		*09/06/2015 21:09*	WG813799

Semi-Volatile Organic Compounds (GC) by Method MADEPE

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	U		33.0	100	1	09/09/2015 14:06	WG814033
C9-C18 Aliphatics	14.1	J	14.0	100	1	09/09/2015 02:17	WG814033
C19-C36 Aliphatics	15.6	J	8.53	100	1	09/09/2015 02:17	WG814033
C11-C22 Aromatics	U		21.1	100	1	09/09/2015 14:06	WG814033
(S) o-Terphenyl	*89.9*			*40.0-140*		*09/09/2015 14:06*	WG814033
(S) 1-Chloro-octadecane	*83.0*			*40.0-140*		*09/09/2015 02:17*	WG814033
(S) 2-Fluorobiphenyl	*87.7*			*40.0-140*		*09/09/2015 14:06*	WG814033
(S) 2-Bromonaphthalene	*75.2*			*40.0-140*		*09/09/2015 14:06*	WG814033

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U	J3	0.316	1.00	1	09/04/2015 09:34	WG813193
Acenaphthylene	U		0.309	1.00	1	09/04/2015 09:34	WG813193
Anthracene	U	J3	0.291	1.00	1	09/04/2015 09:34	WG813193
Benzidine	U		4.32	10.0	1	09/04/2015 09:34	WG813193
Benzo(a)anthracene	U	J3	0.0975	1.00	1	09/04/2015 09:34	WG813193
Benzo(b)fluoranthene	U		0.0896	1.00	1	09/04/2015 09:34	WG813193
Benzo(k)fluoranthene	U	J3	0.355	1.00	1	09/04/2015 09:34	WG813193
Benzo(g,h,i)perylene	U	J3	0.161	1.00	1	09/04/2015 09:34	WG813193
Benzo(a)pyrene	U	J3	0.340	1.00	1	09/04/2015 09:34	WG813193
Bis(2-chlorethoxy)methane	U		0.329	10.0	1	09/04/2015 09:34	WG813193
Bis(2-chloroethyl)ether	U		1.62	10.0	1	09/04/2015 09:34	WG813193
Bis(2-chloroisopropyl)ether	U	J4	0.445	10.0	1	09/04/2015 09:34	WG813193
4-Bromophenyl-phenylether	U		0.335	10.0	1	09/04/2015 09:34	WG813193
2-Chloronaphthalene	U		0.330	1.00	1	09/04/2015 09:34	WG813193
4-Chlorophenyl-phenylether	U	J3	0.303	10.0	1	09/04/2015 09:34	WG813193
Chrysene	U	J3	0.332	1.00	1	09/04/2015 09:34	WG813193
Dibenz(a,h)anthracene	U	J3	0.279	1.00	1	09/04/2015 09:34	WG813193

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
3,3-Dichlorobenzidine	U		2.02	10.0	1	09/04/2015 09:34	WG813193
2,4-Dinitrotoluene	U		1.65	10.0	1	09/04/2015 09:34	WG813193
2,6-Dinitrotoluene	U		0.279	10.0	1	09/04/2015 09:34	WG813193
Fluoranthene	U	J3	0.310	1.00	1	09/04/2015 09:34	WG813193
Fluorene	U	J3	0.323	1.00	1	09/04/2015 09:34	WG813193
Hexachlorobenzene	U	J3	0.341	1.00	1	09/04/2015 09:34	WG813193
Hexachloro-1,3-butadiene	U		0.329	10.0	1	09/04/2015 09:34	WG813193
Hexachlorocyclopentadiene	U		2.33	10.0	1	09/04/2015 09:34	WG813193
Hexachloroethane	U		0.365	10.0	1	09/04/2015 09:34	WG813193
Indeno(1,2,3-cd)pyrene	U	J3	0.279	1.00	1	09/04/2015 09:34	WG813193
Isophorone	U		0.272	10.0	1	09/04/2015 09:34	WG813193
Naphthalene	U		0.372	1.00	1	09/04/2015 09:34	WG813193
Nitrobenzene	U		0.367	10.0	1	09/04/2015 09:34	WG813193
n-Nitrosodimethylamine	U		1.26	10.0	1	09/04/2015 09:34	WG813193
n-Nitrosodiphenylamine	U	J3	0.304	10.0	1	09/04/2015 09:34	WG813193
n-Nitrosodi-n-propylamine	U	J4	0.403	10.0	1	09/04/2015 09:34	WG813193
Phenanthrene	U	J3	0.366	1.00	1	09/04/2015 09:34	WG813193
Benzylbutyl phthalate	U	J3	0.275	3.00	1	09/04/2015 09:34	WG813193
Bis(2-ethylhexyl)phthalate	1.07	J	0.709	3.00	1	09/04/2015 09:34	WG813193
Di-n-butyl phthalate	1.17	J J3	0.266	3.00	1	09/04/2015 09:34	WG813193
Diethyl phthalate	U	J3	0.282	3.00	1	09/04/2015 09:34	WG813193
Dimethyl phthalate	U	J3	0.283	3.00	1	09/04/2015 09:34	WG813193
Di-n-octyl phthalate	U		0.278	3.00	1	09/04/2015 09:34	WG813193
Pyrene	U	J3	0.330	1.00	1	09/04/2015 09:34	WG813193
1,2,4-Trichlorobenzene	U		0.355	10.0	1	09/04/2015 09:34	WG813193
4-Chloro-3-methylphenol	U		0.263	10.0	1	09/04/2015 09:34	WG813193
2-Chlorophenol	U		0.283	10.0	1	09/04/2015 09:34	WG813193
2,4-Dichlorophenol	U		0.284	10.0	1	09/04/2015 09:34	WG813193
2,4-Dimethylphenol	U		0.624	10.0	1	09/04/2015 09:34	WG813193
4,6-Dinitro-2-methylphenol	U		2.62	10.0	1	09/04/2015 09:34	WG813193
2,4-Dinitrophenol	U		3.25	10.0	1	09/04/2015 09:34	WG813193
2-Nitrophenol	U		0.320	10.0	1	09/04/2015 09:34	WG813193
4-Nitrophenol	U		2.01	10.0	1	09/04/2015 09:34	WG813193
Pentachlorophenol	U		0.313	10.0	1	09/04/2015 09:34	WG813193
Phenol	U		0.334	10.0	1	09/04/2015 09:34	WG813193
2,4,6-Trichlorophenol	U		0.297	10.0	1	09/04/2015 09:34	WG813193
(S) 2-Fluorophenol	*48.8*			*10.0-77.9*		*09/04/2015 09:34*	WG813193
(S) Phenol-d5	*38.9*			*5.00-70.1*		*09/04/2015 09:34*	WG813193
(S) Nitrobenzene-d5	*57.0*			*21.8-123*		*09/04/2015 09:34*	WG813193
(S) 2-Fluorobiphenyl	*67.0*			*29.5-131*		*09/04/2015 09:34*	WG813193
(S) 2,4,6-Tribromophenol	*65.4*			*11.2-130*		*09/04/2015 09:34*	WG813193
(S) p-Terphenyl-d14	*72.9*			*29.3-137*		*09/04/2015 09:34*	WG813193

Volatile Petroleum Hydrocarbons by Method MADEPV

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Volatile Petroleum Hydrocarbons	10.8	J	10.8	100	1	09/11/2015 17:03	WG814136
C5-C8 Aliphatics	13.3	J	9.31	100	1	09/11/2015 17:03	WG814136
C9-C12 Aliphatics	15.7	J	7.80	100	1	09/11/2015 17:03	WG814136
C9-C10 Aromatics	18.2	J	10.8	100	1	09/11/2015 17:03	WG814136
(S) 2,5-Dibromotoluene(FID)	*97.1*			*70.0-130*		*09/11/2015 17:03*	WG814136
(S) 2,5-Dibromotoluene(PID)	*99.3*			*70.0-130*		*09/11/2015 17:03*	WG814136

Volatile Organic Compounds (GC/MS) by Method 602MS/8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	09/06/2015 21:28	WG813799
Toluene	U		0.780	5.00	1	09/06/2015 21:28	WG813799
Ethylbenzene	U		0.384	1.00	1	09/06/2015 21:28	WG813799
Total Xylenes	U		1.06	3.00	1	09/06/2015 21:28	WG813799
Methyl tert-butyl ether	U		0.367	1.00	1	09/06/2015 21:28	WG813799
Di-isopropyl ether	U		0.320	1.00	1	09/06/2015 21:28	WG813799
(S) Toluene-d8	*99.1*			*90.0-115*		*09/06/2015 21:28*	WG813799
(S) Dibromofluoromethane	*91.1*			*79.0-121*		*09/06/2015 21:28*	WG813799
(S) α,α,α-Trifluorotoluene	*110*			*90.4-116*		*09/06/2015 21:28*	WG813799
(S) 4-Bromofluorobenzene	*99.4*			*80.1-120*		*09/06/2015 21:28*	WG813799

Semi-Volatile Organic Compounds (GC) by Method MADEPE

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	56.4	J	33.0	100	1	09/09/2015 13:45	WG814033
C9-C18 Aliphatics	U		14.0	100	1	09/09/2015 02:38	WG814033
C19-C36 Aliphatics	19.9	J	8.53	100	1	09/09/2015 02:38	WG814033
C11-C22 Aromatics	36.6	J	21.1	100	1	09/09/2015 13:45	WG814033
(S) o-Terphenyl	*86.7*			*40.0-140*		*09/09/2015 13:45*	WG814033
(S) 1-Chloro-octadecane	*77.4*			*40.0-140*		*09/09/2015 02:38*	WG814033
(S) 2-Fluorobiphenyl	*89.9*			*40.0-140*		*09/09/2015 13:45*	WG814033
(S) 2-Bromonaphthalene	*94.0*			*40.0-140*		*09/09/2015 13:45*	WG814033

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U	J3	0.316	1.00	1	09/04/2015 09:57	WG813193
Acenaphthylene	U		0.309	1.00	1	09/04/2015 09:57	WG813193
Anthracene	U	J3	0.291	1.00	1	09/04/2015 09:57	WG813193
Benzidine	U		4.32	10.0	1	09/04/2015 09:57	WG813193
Benzo(a)anthracene	U	J3	0.0975	1.00	1	09/04/2015 09:57	WG813193
Benzo(b)fluoranthene	U		0.0896	1.00	1	09/04/2015 09:57	WG813193
Benzo(k)fluoranthene	U	J3	0.355	1.00	1	09/04/2015 09:57	WG813193
Benzo(g,h,i)perylene	U	J3	0.161	1.00	1	09/04/2015 09:57	WG813193
Benzo(a)pyrene	U	J3	0.340	1.00	1	09/04/2015 09:57	WG813193
Bis(2-chlorethoxy)methane	U		0.329	10.0	1	09/04/2015 09:57	WG813193
Bis(2-chloroethyl)ether	U		1.62	10.0	1	09/04/2015 09:57	WG813193
Bis(2-chloroisopropyl)ether	U	J4	0.445	10.0	1	09/04/2015 09:57	WG813193
4-Bromophenyl-phenylether	U		0.335	10.0	1	09/04/2015 09:57	WG813193
2-Chloronaphthalene	U		0.330	1.00	1	09/04/2015 09:57	WG813193
4-Chlorophenyl-phenylether	U	J3	0.303	10.0	1	09/04/2015 09:57	WG813193
Chrysene	U	J3	0.332	1.00	1	09/04/2015 09:57	WG813193
Dibenz(a,h)anthracene	U	J3	0.279	1.00	1	09/04/2015 09:57	WG813193

Semi Volatile Organic Compounds (GC/MS) by Method 625

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
3,3-Dichlorobenzidine	U		2.02	10.0	1	09/04/2015 09:57	WG813193
2,4-Dinitrotoluene	U		1.65	10.0	1	09/04/2015 09:57	WG813193
2,6-Dinitrotoluene	U		0.279	10.0	1	09/04/2015 09:57	WG813193
Fluoranthene	U	J3	0.310	1.00	1	09/04/2015 09:57	WG813193
Fluorene	U	J3	0.323	1.00	1	09/04/2015 09:57	WG813193
Hexachlorobenzene	U	J3	0.341	1.00	1	09/04/2015 09:57	WG813193
Hexachloro-1,3-butadiene	U		0.329	10.0	1	09/04/2015 09:57	WG813193
Hexachlorocyclopentadiene	U		2.33	10.0	1	09/04/2015 09:57	WG813193
Hexachloroethane	U		0.365	10.0	1	09/04/2015 09:57	WG813193
Indeno(1,2,3-cd)pyrene	U	J3	0.279	1.00	1	09/04/2015 09:57	WG813193
Isophorone	U		0.272	10.0	1	09/04/2015 09:57	WG813193
Naphthalene	U		0.372	1.00	1	09/04/2015 09:57	WG813193
Nitrobenzene	U		0.367	10.0	1	09/04/2015 09:57	WG813193
n-Nitrosodimethylamine	U		1.26	10.0	1	09/04/2015 09:57	WG813193
n-Nitrosodiphenylamine	U	J3	0.304	10.0	1	09/04/2015 09:57	WG813193
n-Nitrosodi-n-propylamine	U	J4	0.403	10.0	1	09/04/2015 09:57	WG813193
Phenanthrene	U	J3	0.366	1.00	1	09/04/2015 09:57	WG813193
Benzylbutyl phthalate	U	J3	0.275	3.00	1	09/04/2015 09:57	WG813193
Bis(2-ethylhexyl)phthalate	1.49	J	0.709	3.00	1	09/04/2015 09:57	WG813193
Di-n-butyl phthalate	1.28	J J3	0.266	3.00	1	09/04/2015 09:57	WG813193
Diethyl phthalate	U	J3	0.282	3.00	1	09/04/2015 09:57	WG813193
Dimethyl phthalate	U	J3	0.283	3.00	1	09/04/2015 09:57	WG813193
Di-n-octyl phthalate	U		0.278	3.00	1	09/04/2015 09:57	WG813193
Pyrene	U	J3	0.330	1.00	1	09/04/2015 09:57	WG813193
1,2,4-Trichlorobenzene	U		0.355	10.0	1	09/04/2015 09:57	WG813193
4-Chloro-3-methylphenol	U		0.263	10.0	1	09/04/2015 09:57	WG813193
2-Chlorophenol	U		0.283	10.0	1	09/04/2015 09:57	WG813193
2,4-Dichlorophenol	U		0.284	10.0	1	09/04/2015 09:57	WG813193
2,4-Dimethylphenol	U		0.624	10.0	1	09/04/2015 09:57	WG813193
4,6-Dinitro-2-methylphenol	U		2.62	10.0	1	09/04/2015 09:57	WG813193
2,4-Dinitrophenol	U		3.25	10.0	1	09/04/2015 09:57	WG813193
2-Nitrophenol	U		0.320	10.0	1	09/04/2015 09:57	WG813193
4-Nitrophenol	U		2.01	10.0	1	09/04/2015 09:57	WG813193
Pentachlorophenol	U		0.313	10.0	1	09/04/2015 09:57	WG813193
Phenol	U		0.334	10.0	1	09/04/2015 09:57	WG813193
2,4,6-Trichlorophenol	U		0.297	10.0	1	09/04/2015 09:57	WG813193
(S) 2-Fluorophenol	*49.4*			*10.0-77.9*		*09/04/2015 09:57*	WG813193
(S) Phenol-d5	*38.2*			*5.00-70.1*		*09/04/2015 09:57*	WG813193
(S) Nitrobenzene-d5	*56.6*			*21.8-123*		*09/04/2015 09:57*	WG813193
(S) 2-Fluorobiphenyl	*65.8*			*29.5-131*		*09/04/2015 09:57*	WG813193
(S) 2,4,6-Tribromophenol	*74.1*			*11.2-130*		*09/04/2015 09:57*	WG813193
(S) p-Terphenyl-d14	*77.6*			*29.3-137*		*09/04/2015 09:57*	WG813193

Volatile Organic Compounds (GC/MS) by Method 602MS/8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	09/06/2015 13:10	WG813630
Acrolein	U		8.87	50.0	1	09/06/2015 13:10	WG813630
Acrylonitrile	U		1.87	10.0	1	09/06/2015 13:10	WG813630
Benzene	U		0.331	1.00	1	09/06/2015 13:10	WG813630
Bromobenzene	U		0.352	1.00	1	09/06/2015 13:10	WG813630
Bromodichloromethane	U		0.380	1.00	1	09/06/2015 13:10	WG813630
Bromoform	U		0.469	1.00	1	09/06/2015 13:10	WG813630
Bromomethane	U		0.866	5.00	1	09/06/2015 13:10	WG813630
n-Butylbenzene	U		0.361	1.00	1	09/06/2015 13:10	WG813630
sec-Butylbenzene	U		0.365	1.00	1	09/06/2015 13:10	WG813630
tert-Butylbenzene	U		0.399	1.00	1	09/06/2015 13:10	WG813630
Carbon tetrachloride	U		0.379	1.00	1	09/06/2015 13:10	WG813630
Chlorobenzene	U		0.348	1.00	1	09/06/2015 13:10	WG813630
Chlorodibromomethane	U		0.327	1.00	1	09/06/2015 13:10	WG813630
Chloroethane	U		0.453	5.00	1	09/06/2015 13:10	WG813630
2-Chloroethyl vinyl ether	U		3.01	50.0	1	09/06/2015 13:10	WG813630
Chloroform	U		0.324	5.00	1	09/06/2015 13:10	WG813630
Chloromethane	U		0.276	2.50	1	09/06/2015 13:10	WG813630
2-Chlorotoluene	U		0.375	1.00	1	09/06/2015 13:10	WG813630
4-Chlorotoluene	U		0.351	1.00	1	09/06/2015 13:10	WG813630
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	09/06/2015 13:10	WG813630
1,2-Dibromoethane	U		0.381	1.00	1	09/06/2015 13:10	WG813630
Dibromomethane	U		0.346	1.00	1	09/06/2015 13:10	WG813630
1,2-Dichlorobenzene	U		0.349	1.00	1	09/06/2015 13:10	WG813630
1,3-Dichlorobenzene	U		0.220	1.00	1	09/06/2015 13:10	WG813630
1,4-Dichlorobenzene	U		0.274	1.00	1	09/06/2015 13:10	WG813630
Dichlorodifluoromethane	U		0.551	5.00	1	09/06/2015 13:10	WG813630
1,1-Dichloroethane	U		0.259	1.00	1	09/06/2015 13:10	WG813630
1,2-Dichloroethane	U		0.361	1.00	1	09/06/2015 13:10	WG813630
1,1-Dichloroethene	U		0.398	1.00	1	09/06/2015 13:10	WG813630
cis-1,2-Dichloroethene	U		0.260	1.00	1	09/06/2015 13:10	WG813630
trans-1,2-Dichloroethene	U		0.396	1.00	1	09/06/2015 13:10	WG813630
1,2-Dichloropropane	U		0.306	1.00	1	09/06/2015 13:10	WG813630
1,1-Dichloropropene	U		0.352	1.00	1	09/06/2015 13:10	WG813630
1,3-Dichloropropane	U		0.366	1.00	1	09/06/2015 13:10	WG813630
cis-1,3-Dichloropropene	U		0.418	1.00	1	09/06/2015 13:10	WG813630
trans-1,3-Dichloropropene	U		0.419	1.00	1	09/06/2015 13:10	WG813630
2,2-Dichloropropane	U		0.321	1.00	1	09/06/2015 13:10	WG813630
Di-isopropyl ether	U		0.320	1.00	1	09/06/2015 13:10	WG813630
Ethylbenzene	U		0.384	1.00	1	09/06/2015 13:10	WG813630
Hexachloro-1,3-butadiene	U		0.256	1.00	1	09/06/2015 13:10	WG813630
Isopropylbenzene	U		0.326	1.00	1	09/06/2015 13:10	WG813630
p-Isopropyltoluene	U		0.350	1.00	1	09/06/2015 13:10	WG813630
2-Butanone (MEK)	U		3.93	10.0	1	09/06/2015 13:10	WG813630
Methylene Chloride	U		1.00	5.00	1	09/06/2015 13:10	WG813630
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	09/06/2015 13:10	WG813630
Methyl tert-butyl ether	U		0.367	1.00	1	09/06/2015 13:10	WG813630
Naphthalene	U	J3 J4	1.00	5.00	1	09/06/2015 13:10	WG813630
n-Propylbenzene	U		0.349	1.00	1	09/06/2015 13:10	WG813630
Styrene	U		0.307	1.00	1	09/06/2015 13:10	WG813630
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	09/06/2015 13:10	WG813630
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	09/06/2015 13:10	WG813630
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	09/06/2015 13:10	WG813630
Tetrachloroethene	U		0.372	1.00	1	09/06/2015 13:10	WG813630
Toluene	U		0.780	5.00	1	09/06/2015 13:10	WG813630
1,2,3-Trichlorobenzene	U	J3 J4	0.230	1.00	1	09/06/2015 13:10	WG813630

Volatile Organic Compounds (GC/MS) by Method 602MS/8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	09/06/2015 13:10	WG813630
1,1,1-Trichloroethane	U		0.319	1.00	1	09/06/2015 13:10	WG813630
1,1,2-Trichloroethane	U		0.383	1.00	1	09/06/2015 13:10	WG813630
Trichloroethene	U		0.398	1.00	1	09/06/2015 13:10	WG813630
Trichlorofluoromethane	U		1.20	5.00	1	09/06/2015 13:10	WG813630
1,2,3-Trichloropropane	U		0.807	2.50	1	09/06/2015 13:10	WG813630
1,2,4-Trimethylbenzene	U		0.373	1.00	1	09/06/2015 13:10	WG813630
1,2,3-Trimethylbenzene	U		0.321	1.00	1	09/06/2015 13:10	WG813630
1,3,5-Trimethylbenzene	U		0.387	1.00	1	09/06/2015 13:10	WG813630
Vinyl chloride	U		0.259	1.00	1	09/06/2015 13:10	WG813630
Xylenes, Total	U		1.06	3.00	1	09/06/2015 13:10	WG813630
(S) Toluene-d8	*107*			*90.0-115*		*09/06/2015 13:10*	WG813630
(S) Dibromofluoromethane	*99.6*			*79.0-121*		*09/06/2015 13:10*	WG813630
(S) 4-Bromofluorobenzene	*97.4*			*80.1-120*		*09/06/2015 13:10*	WG813630

Method Blank (MB)

(MB) 09/04/15 07:14

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00120			

L786462-01 Original Sample (OS) • Duplicate (DUP)

(OS) 09/04/15 07:16 • (DUP) 09/04/15 07:16

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.0	81.4	1	0.497		5

Laboratory Control Sample (LCS)

(LCS) 09/04/15 07:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) 09/03/15 09:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C5-C8 Aliphatics	U		0.0133	0.100
C9-C12 Aliphatics	0.0206		0.00719	0.100
C9-C10 Aromatics	0.0100		0.00723	0.100
(S) 2,5-Dibromotoluene(FID)	*92.6*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*91.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 07:36 • (LCSD) 09/03/15 08:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C5-C8 Aliphatics	1.20	1.13	1.10	94.4	91.6	70.0-130			2.91	25
C9-C12 Aliphatics	1.40	1.42	1.40	102	99.8	70.0-130			1.89	25
C9-C10 Aromatics	0.200	0.199	0.197	99.5	98.4	70.0-130			1.10	25
(S) 2,5-Dibromotoluene(FID)				*94.6*	*93.4*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*94.2*	*93.3*	*70.0-130*				

L786448-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/03/15 16:42 • (MS) 09/03/15 17:15 • (MSD) 09/03/15 17:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C5-C8 Aliphatics	1.20	1.65	38.5	36.1	90.2	84.5	34	70.0-130			6.28	25
C9-C12 Aliphatics	1.40	0.496	47.0	43.1	97.8	89.4	34	70.0-130			8.85	25
C9-C10 Aromatics	0.200	0.349	6.66	6.20	92.7	86.0	34	70.0-130			7.14	25
(S) 2,5-Dibromotoluene(FID)					*91.4*	*90.9*		*70.0-130*				
(S) 2,5-Dibromotoluene(PID)					*90.7*	*90.5*		*70.0-130*				

Method Blank (MB)

(MB) 09/11/15 12:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C5-C8 Aliphatics	0.0121		0.00931	0.100
C9-C12 Aliphatics	0.0104		0.00780	0.100
C9-C10 Aromatics	0.0203		0.0108	0.100
(S) 2,5-Dibromotoluene(FID)	*90.5*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*89.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/11/15 10:04 • (LCSD) 09/11/15 10:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C5-C8 Aliphatics	1.20	1.08	0.942	90.0	78.5	70.0-130			13.7	25
C9-C12 Aliphatics	1.40	1.59	1.41	114	101	70.0-130			12.0	25
C9-C10 Aromatics	0.200	0.221	0.201	111	100	70.0-130			9.65	25
(S) 2,5-Dibromotoluene(FID)				*107*	*100*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*110*	*99.8*	*70.0-130*				

Method Blank (MB)

(MB) 09/04/15 17:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.3*			*59.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/04/15 16:41 • (LCSD) 09/04/15 17:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.31	5.46	96.5	99.3	63.5-137			2.80	20
(S) a,a,a-Trifluorotoluene(FID)				*96.2*	*98.6*	*59.0-128*				

L786250-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/11/15 04:04 • (MS) 09/11/15 09:08 • (MSD) 09/11/15 09:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	603	1110	1010	93.0	74.3	100	28.5-138			9.68	23.6
(S) a,a,a-Trifluorotoluene(FID)					*100*	*98.5*		*59.0-128*				

Method Blank (MB)

(MB) 09/06/15 12:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*99.0*		*90.0-115*	
(S) Dibromofluoromethane	*88.4*		*79.0-121*	
(S) α,α,α-Trifluorotoluene	*109*		*90.4-116*	
(S) 4-Bromofluorobenzene	*97.7*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 10:33 • (LCSD) 09/06/15 11:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0208	0.0217	83.4	86.6	73.0-122			3.80	20
Di-isopropyl ether	0.0250	0.0206	0.0213	82.2	85.0	65.1-135			3.36	20
Ethylbenzene	0.0250	0.0259	0.0269	103	108	80.9-121			3.83	20
Methyl tert-butyl ether	0.0250	0.0222	0.0240	88.9	95.9	70.1-125			7.63	20
Toluene	0.0250	0.0230	0.0245	91.9	97.8	77.9-116			6.28	20
Xylenes, Total	0.0750	0.0789	0.0805	105	107	79.2-122			2.04	20
(S) Toluene-d8				*98.4*	*100*	*90.0-115*				
(S) Dibromofluoromethane				*86.5*	*86.6*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*107*	*108*	*90.4-116*				
(S) 4-Bromofluorobenzene				*100*	*99.5*	*80.1-120*				

L785716-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 15:29 • (MS) 09/06/15 12:24 • (MSD) 09/06/15 14:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0255	0.0267	102	107	1	58.6-133			4.75	20
Di-isopropyl ether	0.0250	ND	0.0240	0.0251	95.9	100	1	59.9-140			4.60	20
Ethylbenzene	0.0250	ND	0.0312	0.0305	125	122	1	62.7-136			2.15	20

L785716-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 15:29 • (MS) 09/06/15 12:24 • (MSD) 09/06/15 14:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methyl tert-butyl ether	0.0250	ND	0.0268	0.0286	107	114	1	61.4-136			6.34	20
Toluene	0.0250	ND	0.0285	0.0292	114	117	1	67.8-124			2.54	20
Xylenes, Total	0.0750	ND	0.0945	0.0925	126	123	1	65.6-133			2.09	20
(S) Toluene-d8					*100*	*100*		*90.0-115*				
(S) Dibromofluoromethane					*88.0*	*89.6*		*79.0-121*				
(S) α,α,α-Trifluorotoluene					*107*	*107*		*90.4-116*				
(S) 4-Bromofluorobenzene					*101*	*100*		*80.1-120*				

Method Blank (MB)

(MB) 09/09/15 08:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Xylenes, Total	U		0.00106	0.00300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 06:21 • (LCSD) 09/09/15 06:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	0.0742	0.0768	99.0	102	79.2-122			3.43	20

L786161-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/09/15 11:01 • (MS) 09/09/15 09:52 • (MSD) 09/09/15 10:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	ND	0.0758	0.0746	101	99.5	1	65.6-133			1.55	20

Method Blank (MB)

(MB) 09/06/15 07:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 09/06/15 07:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*107*			*90.0-115*
(S) Dibromofluoromethane	*98.4*			*79.0-121*
(S) 4-Bromofluorobenzene	*100*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 04:24 • (LCSD) 09/06/15 10:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.112	0.126	89.6	101	28.7-175			11.9	20.9
Acrolein	0.125	0.141	0.121	113	96.5	40.4-172			15.9	20
Acrylonitrile	0.125	0.121	0.121	96.6	96.9	58.2-145			0.280	20
Benzene	0.0250	0.0212	0.0205	84.8	81.9	73.0-122			3.44	20
Bromobenzene	0.0250	0.0230	0.0223	91.9	89.1	81.5-115			3.03	20
Bromodichloromethane	0.0250	0.0253	0.0242	101	96.8	75.5-121			4.48	20
Bromoform	0.0250	0.0258	0.0254	103	101	71.5-131			1.54	20
Bromomethane	0.0250	0.0192	0.0184	76.8	73.5	22.4-187			4.39	20
n-Butylbenzene	0.0250	0.0237	0.0226	94.7	90.5	75.9-134			4.49	20
sec-Butylbenzene	0.0250	0.0240	0.0225	96.2	90.0	80.6-126			6.71	20
tert-Butylbenzene	0.0250	0.0234	0.0220	93.7	88.0	79.3-127			6.33	20
Carbon tetrachloride	0.0250	0.0208	0.0198	83.2	79.2	70.9-129			4.89	20
Chlorobenzene	0.0250	0.0216	0.0212	86.2	84.8	79.7-122			1.65	20
Chlorodibromomethane	0.0250	0.0237	0.0231	94.7	92.3	78.2-124			2.49	20
Chloroethane	0.0250	0.0198	0.0189	79.2	75.7	41.2-153			4.47	20
2-Chloroethyl vinyl ether	0.125	0.118	0.116	94.1	92.4	23.4-162			1.83	23.5
Chloroform	0.0250	0.0220	0.0215	88.1	86.0	73.2-125			2.46	20
Chloromethane	0.0250	0.0215	0.0207	85.8	82.8	55.8-134			3.58	20
2-Chlorotoluene	0.0250	0.0232	0.0226	92.9	90.3	76.4-125			2.83	20
4-Chlorotoluene	0.0250	0.0226	0.0221	90.5	88.3	81.5-121			2.54	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0205	0.0188	82.0	75.2	64.8-131			8.67	20
1,2-Dibromoethane	0.0250	0.0226	0.0219	90.4	87.7	79.8-122			2.97	20
Dibromomethane	0.0250	0.0246	0.0243	98.3	97.3	79.5-118			1.00	20
1,2-Dichlorobenzene	0.0250	0.0240	0.0233	96.2	93.2	84.7-118			3.11	20
1,3-Dichlorobenzene	0.0250	0.0251	0.0243	100	97.3	77.6-127			3.00	20
1,4-Dichlorobenzene	0.0250	0.0222	0.0222	89.0	88.8	82.2-114			0.240	20
Dichlorodifluoromethane	0.0250	0.0181	0.0183	72.2	73.0	56.0-134			1.13	20
1,1-Dichloroethane	0.0250	0.0227	0.0222	90.9	88.8	71.7-127			2.37	20
1,2-Dichloroethane	0.0250	0.0239	0.0237	95.5	94.9	65.3-126			0.610	20
1,1-Dichloroethene	0.0250	0.0215	0.0208	86.1	83.2	59.9-137			3.42	20
cis-1,2-Dichloroethene	0.0250	0.0210	0.0209	84.2	83.4	77.3-122			0.930	20
trans-1,2-Dichloroethene	0.0250	0.0202	0.0195	80.7	77.9	72.6-125			3.48	20
1,2-Dichloropropane	0.0250	0.0257	0.0250	103	100	77.4-125			2.69	20
1,1-Dichloropropene	0.0250	0.0206	0.0200	82.4	80.2	72.5-127			2.77	20
1,3-Dichloropropane	0.0250	0.0223	0.0216	89.2	86.6	80.6-115			3.03	20
cis-1,3-Dichloropropene	0.0250	0.0250	0.0245	99.8	97.9	77.7-124			1.96	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 04:24 • (LCSD) 09/06/15 10:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0230	0.0225	92.0	90.2	73.5-127			1.99	20
2,2-Dichloropropane	0.0250	0.0222	0.0196	88.8	78.6	61.3-134			12.3	20
Di-isopropyl ether	0.0250	0.0266	0.0263	106	105	65.1-135			1.29	20
Ethylbenzene	0.0250	0.0212	0.0205	84.7	82.1	80.9-121			3.15	20
Hexachloro-1,3-butadiene	0.0250	0.0240	0.0209	96.0	83.7	73.7-133			13.7	20
Isopropylbenzene	0.0250	0.0222	0.0212	88.7	84.8	81.6-124			4.51	20
p-Isopropyltoluene	0.0250	0.0250	0.0235	100	93.9	77.6-129			6.46	20
2-Butanone (MEK)	0.125	0.120	0.122	95.8	98.0	46.4-155			2.22	20
Methylene Chloride	0.0250	0.0210	0.0197	84.0	78.8	69.5-120			6.44	20
4-Methyl-2-pentanone (MIBK)	0.125	0.136	0.132	109	106	63.3-138			2.47	20
Methyl tert-butyl ether	0.0250	0.0228	0.0224	91.4	89.5	70.1-125			2.08	20
Naphthalene	0.0250	0.0216	0.0170	86.5	68.0	69.7-134		J3 J4	23.9	20
n-Propylbenzene	0.0250	0.0227	0.0217	90.9	86.8	81.9-122			4.63	20
Styrene	0.0250	0.0232	0.0228	92.6	91.2	79.9-124			1.49	20
1,1,1,2-Tetrachloroethane	0.0250	0.0237	0.0232	94.7	92.7	78.5-125			2.08	20
1,1,2,2-Tetrachloroethane	0.0250	0.0246	0.0236	98.4	94.2	79.3-123			4.38	20
Tetrachloroethene	0.0250	0.0208	0.0198	83.0	79.3	73.5-130			4.65	20
Toluene	0.0250	0.0218	0.0211	87.2	84.4	77.9-116			3.35	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0204	0.0197	81.7	78.9	62.0-141			3.50	20
1,2,3-Trichlorobenzene	0.0250	0.0214	0.0167	85.6	66.7	75.7-134		J3 J4	24.9	20
1,2,4-Trichlorobenzene	0.0250	0.0235	0.0197	93.9	78.9	76.1-136			17.5	20
1,1,1-Trichloroethane	0.0250	0.0208	0.0200	83.1	80.0	71.1-129			3.86	20
1,1,2-Trichloroethane	0.0250	0.0226	0.0221	90.3	88.4	81.6-120			2.23	20
Trichloroethene	0.0250	0.0222	0.0214	88.9	85.7	79.5-121			3.71	20
Trichlorofluoromethane	0.0250	0.0197	0.0193	78.8	77.2	49.1-157			2.10	20
1,2,3-Trichloropropane	0.0250	0.0224	0.0212	89.5	84.8	74.9-124			5.41	20
1,2,3-Trimethylbenzene	0.0250	0.0227	0.0217	90.8	86.8	79.9-118			4.46	20
1,2,4-Trimethylbenzene	0.0250	0.0243	0.0227	97.0	90.8	79.0-122			6.64	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0221	94.1	88.3	81.0-123			6.28	20
Vinyl chloride	0.0250	0.0199	0.0195	79.7	77.9	61.5-134			2.26	20
Xylenes, Total	0.0750	0.0636	0.0619	84.8	82.6	79.2-122			2.67	20
(S) Toluene-d8				*107*	*107*	*90.0-115*				
(S) Dibromofluoromethane				*97.3*	*97.6*	*79.0-121*				
(S) 4-Bromofluorobenzene				*99.8*	*99.0*	*80.1-120*				

L786225-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 13:29 • (MS) 09/06/15 12:11 • (MSD) 09/06/15 12:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00110	0.0692	0.0694	54.5	54.7	1	25.0-156			0.300	21.5
Acrolein	0.125	ND	0.204	0.221	163	177	1	34.0-194			8.08	21.5
Acrylonitrile	0.125	ND	0.131	0.141	105	113	1	55.9-161			7.36	20
Benzene	0.0250	ND	0.0212	0.0226	84.7	90.3	1	58.6-133			6.42	20
Bromobenzene	0.0250	ND	0.0234	0.0248	93.7	99.1	1	70.6-125			5.58	20
Bromodichloromethane	0.0250	ND	0.0255	0.0272	102	109	1	69.2-127			6.43	20
Bromoform	0.0250	ND	0.0274	0.0301	109	120	1	66.3-140			9.42	20
Bromomethane	0.0250	ND	0.0191	0.0202	76.4	80.9	1	16.6-183			5.81	20.5
n-Butylbenzene	0.0250	ND	0.0234	0.0246	93.6	98.2	1	64.8-145			4.84	20
sec-Butylbenzene	0.0250	ND	0.0236	0.0247	94.4	98.9	1	66.8-139			4.66	20
tert-Butylbenzene	0.0250	ND	0.0229	0.0242	91.5	96.8	1	67.1-138			5.65	20
Carbon tetrachloride	0.0250	ND	0.0209	0.0224	83.6	89.7	1	60.6-139			7.05	20
Chlorobenzene	0.0250	ND	0.0217	0.0232	86.9	92.7	1	70.1-130			6.44	20
Chlorodibromomethane	0.0250	ND	0.0245	0.0266	97.9	106	1	71.6-132			8.29	20
Chloroethane	0.0250	ND	0.0198	0.0203	79.0	81.3	1	33.3-155			2.85	20
2-Chloroethyl vinyl ether	0.125	ND	0.114	0.103	91.2	82.4	1	5.00-149			10.1	40
Chloroform	0.0250	ND	0.0222	0.0238	88.8	95.1	1	66.1-133			6.86	20
Chloromethane	0.0250	ND	0.0213	0.0224	85.3	89.6	1	40.7-139			4.95	20
2-Chlorotoluene	0.0250	ND	0.0231	0.0250	92.6	99.9	1	66.9-134			7.65	20
4-Chlorotoluene	0.0250	ND	0.0231	0.0243	92.5	97.3	1	66.8-134			4.98	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0210	0.0241	83.9	96.2	1	63.9-142			13.7	20.2
1,2-Dibromoethane	0.0250	ND	0.0232	0.0253	92.6	101	1	73.8-131			8.76	20
Dibromomethane	0.0250	ND	0.0257	0.0271	103	109	1	72.8-127			5.53	20
1,2-Dichlorobenzene	0.0250	ND	0.0247	0.0258	98.9	103	1	77.4-127			4.07	20
1,3-Dichlorobenzene	0.0250	ND	0.0255	0.0270	102	108	1	67.9-136			5.82	20
1,4-Dichlorobenzene	0.0250	ND	0.0228	0.0240	91.3	96.1	1	74.4-123			5.11	20
Dichlorodifluoromethane	0.0250	ND	0.0186	0.0191	74.4	76.5	1	42.2-146			2.77	20
1,1-Dichloroethane	0.0250	ND	0.0230	0.0243	91.9	97.2	1	64.0-134			5.53	20
1,2-Dichloroethane	0.0250	ND	0.0245	0.0268	98.1	107	1	60.7-132			8.67	20
1,1-Dichloroethene	0.0250	ND	0.0215	0.0227	85.8	90.9	1	48.8-144			5.70	20
cis-1,2-Dichloroethene	0.0250	0.0195	0.0371	0.0385	70.6	76.2	1	60.6-136			3.70	20
trans-1,2-Dichloroethene	0.0250	ND	0.0204	0.0214	81.7	85.6	1	61.0-132			4.67	20
1,2-Dichloropropane	0.0250	ND	0.0263	0.0278	105	111	1	69.7-130			5.31	20
1,1-Dichloropropene	0.0250	ND	0.0207	0.0218	82.6	87.1	1	61.5-136			5.21	20
1,3-Dichloropropane	0.0250	ND	0.0227	0.0244	90.6	97.7	1	74.3-123			7.54	20
cis-1,3-Dichloropropene	0.0250	ND	0.0259	0.0275	104	110	1	71.1-129			5.77	20

L786225-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 13:29 • (MS) 09/06/15 12:11 • (MSD) 09/06/15 12:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0273	0.0291	109	116	1	66.3-136			6.36	20
2,2-Dichloropropane	0.0250	ND	0.0209	0.0230	83.5	92.0	1	54.9-142			9.75	20
Di-isopropyl ether	0.0250	ND	0.0279	0.0298	111	119	1	59.9-140			6.62	20
Ethylbenzene	0.0250	ND	0.0211	0.0223	84.4	89.2	1	62.7-136			5.55	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0209	0.0240	83.6	95.8	1	61.1-144			13.7	20.1
Isopropylbenzene	0.0250	ND	0.0221	0.0234	88.3	93.5	1	67.4-136			5.68	20
p-Isopropyltoluene	0.0250	ND	0.0248	0.0261	99.1	104	1	62.8-143			5.27	20
2-Butanone (MEK)	0.125	ND	0.103	0.111	82.2	89.1	1	45.0-156			8.07	20.8
Methylene Chloride	0.0250	0.000517	0.0207	0.0222	80.6	86.9	1	61.5-125			7.38	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.149	0.166	119	133	1	60.7-150			10.6	20
Methyl tert-butyl ether	0.0250	ND	0.0243	0.0266	97.0	107	1	61.4-136			9.37	20
Naphthalene	0.0250	ND	0.0202	0.0227	81.0	90.7	1	61.8-143			11.4	20
n-Propylbenzene	0.0250	ND	0.0228	0.0239	91.2	95.5	1	63.2-139			4.69	20
Styrene	0.0250	ND	0.0238	0.0251	95.4	100	1	68.2-133			5.06	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0241	0.0256	96.3	103	1	70.5-132			6.25	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0258	0.0282	103	113	1	64.9-145			8.85	20
Tetrachloroethene	0.0250	1.10	0.798	0.755	0.000	0.000	1	57.4-141	V	V	5.58	20
Toluene	0.0250	ND	0.0218	0.0234	87.0	93.4	1	67.8-124			7.12	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0211	0.0222	84.3	88.6	1	53.7-150			5.07	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0192	0.0218	76.7	87.2	1	65.7-143			12.8	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0217	0.0241	86.9	96.6	1	67.0-146			10.6	20
1,1,1-Trichloroethane	0.0250	ND	0.0210	0.0225	84.1	89.9	1	58.7-134			6.63	20
1,1,2-Trichloroethane	0.0250	ND	0.0232	0.0253	93.0	101	1	74.1-130			8.34	20
Trichloroethene	0.0250	0.0103	0.0304	0.0313	80.2	84.0	1	48.9-148			3.06	20
Trichlorofluoromethane	0.0250	ND	0.0198	0.0208	79.4	83.1	1	39.9-165			4.57	20
1,2,3-Trichloropropane	0.0250	ND	0.0231	0.0256	92.5	102	1	71.5-134			10.1	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0226	0.0237	90.4	94.7	1	62.7-133			4.61	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0241	0.0252	96.4	101	1	60.5-137			4.61	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0233	0.0246	93.1	98.2	1	67.9-134			5.35	20
Vinyl chloride	0.0250	ND	0.0201	0.0211	80.2	84.6	1	44.3-143			5.32	20
Xylenes, Total	0.0750	ND	0.0637	0.0676	85.0	90.2	1	65.6-133			5.96	20
(S) Toluene-d8					*105*	*107*		*90.0-115*				
(S) Dibromofluoromethane					*97.3*	*98.7*		*79.0-121*				
(S) 4-Bromofluorobenzene					*99.4*	*100*		*80.1-120*				

Method Blank (MB)

(MB) 09/10/15 03:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
2-Chloroethyl vinyl ether	U		0.00234	0.0500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100

Method Blank (MB)

(MB) 09/10/15 03:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*104*		*88.7-115*	
(S) Dibromofluoromethane	*96.3*		*76.3-123*	
(S) 4-Bromofluorobenzene	*96.6*		*69.7-129*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/10/15 01:47 • (LCSD) 09/10/15 02:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.103	0.100	82.5	80.1	25.3-178			2.92	22.9
Acrylonitrile	0.125	0.122	0.141	97.4	113	57.8-143			14.7	20
Benzene	0.0250	0.0233	0.0249	93.4	99.5	72.6-120			6.33	20
Bromobenzene	0.0250	0.0240	0.0222	95.9	88.7	80.3-115			7.86	20
Bromodichloromethane	0.0250	0.0230	0.0246	92.1	98.3	75.3-119			6.51	20
Bromoform	0.0250	0.0254	0.0233	102	93.3	69.1-135			8.45	20
Bromomethane	0.0250	0.0247	0.0270	98.6	108	23.0-191			9.02	20
n-Butylbenzene	0.0250	0.0251	0.0246	100	98.4	74.2-134			2.14	20
sec-Butylbenzene	0.0250	0.0247	0.0229	98.6	91.5	77.8-129			7.51	20
tert-Butylbenzene	0.0250	0.0244	0.0225	97.8	90.1	77.2-129			8.11	20
Carbon tetrachloride	0.0250	0.0228	0.0249	91.0	99.7	69.4-129			9.06	20
Chlorobenzene	0.0250	0.0247	0.0245	98.8	98.0	78.9-122			0.870	20
Chlorodibromomethane	0.0250	0.0245	0.0244	98.1	97.7	76.4-126			0.350	20
Chloroethane	0.0250	0.0266	0.0276	106	110	47.2-147			3.57	20
2-Chloroethyl vinyl ether	0.125	0.124	0.130	99.0	104	16.7-162			4.68	23.7
Chloroform	0.0250	0.0221	0.0245	88.4	98.0	73.3-122			10.4	20
Chloromethane	0.0250	0.0254	0.0253	101	101	53.1-135			0.380	20
2-Chlorotoluene	0.0250	0.0239	0.0222	95.6	88.9	74.6-127			7.22	20
4-Chlorotoluene	0.0250	0.0236	0.0220	94.4	88.0	79.5-123			7.05	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0222	0.0229	88.9	91.8	64.9-131			3.21	20
1,2-Dibromoethane	0.0250	0.0240	0.0240	95.8	95.9	78.7-123			0.0400	20
Dibromomethane	0.0250	0.0243	0.0259	97.2	104	78.5-117			6.26	20
1,2-Dichlorobenzene	0.0250	0.0234	0.0237	93.7	95.0	83.6-119			1.42	20
1,3-Dichlorobenzene	0.0250	0.0243	0.0226	97.1	90.5	75.9-129			6.99	20
1,4-Dichlorobenzene	0.0250	0.0238	0.0236	95.2	94.4	81.0-115			0.850	20
Dichlorodifluoromethane	0.0250	0.0233	0.0236	93.3	94.6	50.9-139			1.35	20
1,1-Dichloroethane	0.0250	0.0238	0.0259	95.4	104	71.7-125			8.34	20
1,2-Dichloroethane	0.0250	0.0215	0.0256	86.1	102	67.2-121			17.1	20
1,1-Dichloroethene	0.0250	0.0288	0.0301	115	121	60.6-133			4.53	20
cis-1,2-Dichloroethene	0.0250	0.0226	0.0240	90.6	95.9	76.1-121			5.74	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0247	92.7	98.7	70.7-124			6.33	20
1,2-Dichloropropane	0.0250	0.0259	0.0269	104	108	76.9-123			3.82	20
1,1-Dichloropropene	0.0250	0.0230	0.0253	92.2	101	71.2-126			9.27	20
1,3-Dichloropropane	0.0250	0.0233	0.0243	93.1	97.3	80.3-114			4.35	20
cis-1,3-Dichloropropene	0.0250	0.0247	0.0258	98.9	103	77.3-123			4.25	20
trans-1,3-Dichloropropene	0.0250	0.0252	0.0268	101	107	73.0-127			6.35	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/10/15 01:47 • (LCSD) 09/10/15 02:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0198	0.0242	79.3	96.6	61.9-132			19.6	20
Di-isopropyl ether	0.0250	0.0247	0.0269	98.9	108	67.2-131			8.41	20
Ethylbenzene	0.0250	0.0241	0.0237	96.3	94.9	78.6-124			1.44	20
Hexachloro-1,3-butadiene	0.0250	0.0237	0.0246	94.7	98.4	69.2-136			3.85	20
Isopropylbenzene	0.0250	0.0246	0.0226	98.2	90.2	79.4-126			8.48	20
p-Isopropyltoluene	0.0250	0.0248	0.0231	99.1	92.6	75.4-132			6.80	20
2-Butanone (MEK)	0.125	0.122	0.129	97.7	103	44.5-154			5.70	21.3
Methylene Chloride	0.0250	0.0234	0.0244	93.8	97.8	68.2-119			4.18	20
4-Methyl-2-pentanone (MIBK)	0.125	0.127	0.136	101	109	61.1-138			7.05	20
Methyl tert-butyl ether	0.0250	0.0227	0.0253	91.0	101	70.2-122			10.6	20
Naphthalene	0.0250	0.0233	0.0239	93.1	95.6	69.9-132			2.73	20
n-Propylbenzene	0.0250	0.0246	0.0227	98.3	90.7	80.2-124			7.98	20
Styrene	0.0250	0.0240	0.0230	95.8	91.9	79.4-124			4.15	20
1,1,1,2-Tetrachloroethane	0.0250	0.0238	0.0236	95.3	94.6	76.7-127			0.780	20
1,1,2,2-Tetrachloroethane	0.0250	0.0246	0.0230	98.5	92.0	78.8-124			6.77	20
Tetrachloroethene	0.0250	0.0234	0.0231	93.7	92.3	71.1-133			1.52	20
Toluene	0.0250	0.0243	0.0246	97.4	98.3	76.7-116			1.01	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0266	0.0278	106	111	62.6-138			4.68	20
1,2,3-Trichlorobenzene	0.0250	0.0253	0.0259	101	103	72.5-137			2.37	20
1,2,4-Trichlorobenzene	0.0250	0.0249	0.0250	99.7	100	74.0-137			0.340	20
1,1,1-Trichloroethane	0.0250	0.0214	0.0241	85.6	96.4	69.9-127			11.9	20
1,1,2-Trichloroethane	0.0250	0.0239	0.0234	95.4	93.5	81.9-119			2.06	20
Trichloroethene	0.0250	0.0244	0.0242	97.6	96.9	77.2-122			0.770	20
Trichlorofluoromethane	0.0250	0.0286	0.0299	114	120	51.5-151			4.50	20
1,2,3-Trichloropropane	0.0250	0.0243	0.0226	97.1	90.3	74.0-124			7.25	20
1,2,3-Trimethylbenzene	0.0250	0.0236	0.0238	94.5	95.1	79.4-118			0.610	20
1,2,4-Trimethylbenzene	0.0250	0.0242	0.0222	96.6	88.9	77.1-124			8.33	20
1,3,5-Trimethylbenzene	0.0250	0.0243	0.0224	97.1	89.7	79.0-125			7.95	20
Vinyl chloride	0.0250	0.0265	0.0273	106	109	58.4-134			2.79	20
Xylenes, Total	0.0750	0.0727	0.0711	97.0	94.8	78.1-123			2.26	20
(S) Toluene-d8				*104*	*105*	*88.7-115*				
(S) Dibromofluoromethane				*95.6*	*101*	*76.3-123*				
(S) 4-Bromofluorobenzene				*96.5*	*89.1*	*69.7-129*				

Method Blank (MB)

(MB) 09/09/15 09:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	*66.8*			*50.0-150*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 09:25 • (LCSD) 09/09/15 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	40.3	37.7	67.1	62.9	50.0-150			6.54	20
(S) o-Terphenyl				*74.7*	*70.3*	*50.0-150*				

Method Blank (MB)

(MB) 09/09/15 00:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C9-C18 Aliphatics	U		0.0140	0.100
C19-C36 Aliphatics	0.0122		0.00853	0.100
(S) 1-Chloro-octadecane	*84.3*			*40.0-140*

Method Blank (MB)

(MB) 09/09/15 01:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C11-C22 Aromatics	U		0.0211	0.100
(S) o-Terphenyl	*86.0*			*40.0-140*
(S) 2-Fluorobiphenyl	*84.4*			*40.0-140*
(S) 2-Bromonaphthalene	*84.0*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 00:32 • (LCSD) 09/09/15 11:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C9-C18 Aliphatics	0.600	0.326	0.328	54.3	54.6	40.0-140			0.650	50
C19-C36 Aliphatics	0.800	0.628	0.649	78.5	81.1	40.0-140			3.30	50
(S) 1-Chloro-octadecane				*77.2*	*79.9*	*40.0-140*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 01:35 • (LCSD) 09/09/15 01:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C11-C22 Aromatics	1.70	1.25	1.32	73.4	77.9	40.0-140			6.00	50
(S) o-Terphenyl				*83.1*	*88.2*	*40.0-140*				
(S) 2-Fluorobiphenyl				*79.4*	*85.4*	*40.0-140*				
(S) 2-Bromonaphthalene				*63.5*	*80.6*	*40.0-140*				

Method Blank (MB)

(MB) 09/09/15 23:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C9-C18 Aliphatics	U		1.17	6.50
C19-C36 Aliphatics	0.934		0.351	6.50
(S) 1-Chloro-octadecane	*80.4*			*40.0-140*

Method Blank (MB)

(MB) 09/10/15 00:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C11-C22 Aromatics	1.39		0.533	6.50
(S) o-Terphenyl	*83.5*			*40.0-140*
(S) 2-Fluorobiphenyl	*86.1*			*40.0-140*
(S) 2-Bromonaphthalene	*83.6*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 23:36 • (LCSD) 09/09/15 23:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C9-C18 Aliphatics	48.0	24.8	26.9	51.7	56.1	40.0-140			8.05	50
C19-C36 Aliphatics	64.0	37.4	41.0	58.5	64.1	40.0-140			9.13	50
(S) 1-Chloro-octadecane				*55.3*	*60.1*	*40.0-140*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/10/15 00:39 • (LCSD) 09/10/15 01:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C11-C22 Aromatics	136	77.6	83.3	57.0	61.3	40.0-140			7.16	50
(S) o-Terphenyl				*64.3*	*69.1*	*40.0-140*				
(S) 2-Fluorobiphenyl				*78.0*	*78.6*	*40.0-140*				
(S) 2-Bromonaphthalene				*83.4*	*82.4*	*40.0-140*				

L786398-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/10/15 02:25 • (MS) 09/10/15 02:46 • (MSD) 09/10/15 03:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C9-C18 Aliphatics	48.0	0.464	25.9	27.8	53.0	56.9	1	40.0-140			6.97	50
C19-C36 Aliphatics	64.0	0.844	40.1	42.9	61.3	65.7	1	40.0-140			6.68	50
(S) 1-Chloro-octadecane					*58.8*	*66.7*		*40.0-140*				

L786398-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/10/15 02:25 • (MS) 09/10/15 05:13 • (MSD) 09/10/15 04:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C11-C22 Aromatics	136	1.65	87.3	89.1	62.9	64.3	1	40.0-140			2.06	50
(S) o-Terphenyl					*73.3*	*74.1*		*40.0-140*				
(S) 2-Fluorobiphenyl					*82.9*	*83.5*		*40.0-140*				
(S) 2-Bromonaphthalene					*87.7*	*88.2*		*40.0-140*				

Method Blank (MB)

(MB) 09/04/15 06:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000316	0.00100
Acenaphthylene	U		0.000309	0.00100
Anthracene	U		0.000291	0.00100
Benzidine	U		0.00432	0.0100
Benzo(a)anthracene	U		0.0000975	0.00100
Benzo(b)fluoranthene	U		0.0000896	0.00100
Benzo(k)fluoranthene	U		0.000355	0.00100
Benzo(g,h,i)perylene	U		0.000161	0.00100
Benzo(a)pyrene	U		0.000340	0.00100
Bis(2-chlorethoxy)methane	U		0.000329	0.0100
Bis(2-chloroethyl)ether	U		0.00162	0.0100
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100
4-Bromophenyl-phenylether	U		0.000335	0.0100
2-Chloronaphthalene	U		0.000330	0.00100
4-Chlorophenyl-phenylether	U		0.000303	0.0100
Chrysene	U		0.000332	0.00100
Dibenz(a,h)anthracene	U		0.000279	0.00100
3,3-Dichlorobenzidine	U		0.00202	0.0100
2,4-Dinitrotoluene	U		0.00165	0.0100
2,6-Dinitrotoluene	U		0.000279	0.0100
Fluoranthene	U		0.000310	0.00100
Fluorene	U		0.000323	0.00100
Hexachlorobenzene	U		0.000341	0.00100
Hexachloro-1,3-butadiene	U		0.000329	0.0100
Hexachlorocyclopentadiene	U		0.00233	0.0100
Hexachloroethane	U		0.000365	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000272	0.0100
Naphthalene	U		0.000372	0.00100
Nitrobenzene	U		0.000367	0.0100
n-Nitrosodimethylamine	U		0.00126	0.0100
n-Nitrosodiphenylamine	U		0.000304	0.0100
n-Nitrosodi-n-propylamine	U		0.000403	0.0100
Phenanthrene	U		0.000366	0.00100
Benzylbutyl phthalate	U		0.000275	0.00300
Bis(2-ethylhexyl)phthalate	0.00101		0.000709	0.00300

Method Blank (MB)

(MB) 09/04/15 06:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Di-n-butyl phthalate	0.00106		0.000266	0.00300
Diethyl phthalate	U		0.000282	0.00300
Dimethyl phthalate	U		0.000283	0.00300
Di-n-octyl phthalate	U		0.000278	0.00300
Pyrene	U		0.000330	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.0100
4-Chloro-3-methylphenol	U		0.000263	0.0100
2-Chlorophenol	U		0.000283	0.0100
2,4-Dichlorophenol	U		0.000284	0.0100
2,4-Dimethylphenol	U		0.000624	0.0100
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100
2,4-Dinitrophenol	U		0.00325	0.0100
2-Nitrophenol	U		0.000320	0.0100
4-Nitrophenol	U		0.00201	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.000334	0.0100
2,4,6-Trichlorophenol	U		0.000297	0.0100
(S) Nitrobenzene-d5	*43.4*			*21.8-123*
(S) 2-Fluorobiphenyl	*48.5*			*29.5-131*
(S) p-Terphenyl-d14	*73.3*			*29.3-137*
(S) Phenol-d5	*29.6*			*5.00-70.1*
(S) 2-Fluorophenol	*36.6*			*10.0-77.9*
(S) 2,4,6-Tribromophenol	*58.7*			*11.2-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/04/15 05:19 • (LCSD) 09/04/15 05:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0319	0.0257	63.8	51.4	38.7-109		J3	21.6	21.5
Acenaphthylene	0.0500	0.0336	0.0273	67.2	54.6	36.0-106			20.8	21
Anthracene	0.0500	0.0399	0.0325	79.9	64.9	43.6-113		J3	20.7	18.8
Benzo(a)anthracene	0.0500	0.0392	0.0320	78.4	64.1	51.2-112		J3	20.1	20
Benzidine	0.0500	0.0236	0.0247	47.3	49.3	10.0-165			4.23	40
Benzo(b)fluoranthene	0.0500	0.0386	0.0320	77.2	64.1	47.6-111			18.5	20
Benzo(k)fluoranthene	0.0500	0.0393	0.0316	78.5	63.2	49.4-114		J3	21.6	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/04/15 05:19 • (LCSD) 09/04/15 05:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.0500	0.0428	0.0325	85.6	65.0	45.2-117		J3	27.4	20
Benzo(a)pyrene	0.0500	0.0408	0.0329	81.6	65.7	45.6-106		J3	21.6	20
Bis(2-chlorethoxy)methane	0.0500	0.0252	0.0208	50.3	41.6	37.2-111			19.0	24.1
Bis(2-chloroethyl)ether	0.0500	0.0166	0.0141	33.2	28.2	22.6-108			16.5	27.9
Bis(2-chloroisopropyl)ether	0.0500	0.0195	0.0164	39.0	32.8	32.9-100		J4	17.4	25.1
4-Bromophenyl-phenylether	0.0500	0.0383	0.0317	76.6	63.4	40.7-116			18.9	21
2-Chloronaphthalene	0.0500	0.0295	0.0235	59.0	47.1	33.6-105			22.5	23
4-Chlorophenyl-phenylether	0.0500	0.0382	0.0302	76.4	60.4	39.0-113		J3	23.4	20.9
Chrysene	0.0500	0.0376	0.0306	75.2	61.2	54.6-120		J3	20.5	20
Dibenz(a,h)anthracene	0.0500	0.0420	0.0322	84.1	64.4	42.8-118		J3	26.6	20
3,3-Dichlorobenzidine	0.0500	0.0415	0.0340	82.9	68.0	27.2-142			19.8	22.3
2,4-Dinitrotoluene	0.0500	0.0407	0.0337	81.5	67.5	31.2-105			18.8	22
2,6-Dinitrotoluene	0.0500	0.0369	0.0309	73.8	61.8	30.6-106			17.7	23.1
Fluoranthene	0.0500	0.0427	0.0340	85.3	68.0	45.9-115		J3	22.6	20
Fluorene	0.0500	0.0380	0.0304	76.0	60.8	41.0-112		J3	22.3	20.2
Hexachlorobenzene	0.0500	0.0379	0.0306	75.8	61.2	38.5-116		J3	21.4	20.1
Hexachloro-1,3-butadiene	0.0500	0.0187	0.0151	37.4	30.2	16.1-104			21.4	31.2
Hexachlorocyclopentadiene	0.0500	0.0134	0.0110	26.8	22.0	10.0-121			20.0	27.9
Hexachloroethane	0.0500	0.0134	0.0110	26.9	22.0	16.5-89.8			20.1	30.7
Indeno(1,2,3-cd)pyrene	0.0500	0.0433	0.0328	86.7	65.7	45.0-116		J3	27.6	20
Isophorone	0.0500	0.0325	0.0273	65.0	54.5	35.4-112			17.5	21.5
Naphthalene	0.0500	0.0200	0.0163	40.0	32.5	32.2-101			20.6	23.8
Nitrobenzene	0.0500	0.0204	0.0173	40.8	34.6	31.4-106			16.4	25.7
n-Nitrosodiphenylamine	0.0500	0.0371	0.0303	74.2	60.5	44.4-113		J3	20.3	20
n-Nitrosodi-n-propylamine	0.0500	0.0164	0.0200	32.8	40.1	33.2-106	J4		19.9	23.7
n-Nitrosodimethylamine	0.0500	0.00641	0.00663	12.8	13.3	10.0-80.1			3.44	37.5
Phenanthrene	0.0500	0.0361	0.0290	72.2	58.1	46.4-113		J3	21.7	20
Benzylbutyl phthalate	0.0500	0.0384	0.0311	76.8	62.1	31.8-123		J3	21.1	20.7
Bis(2-ethylhexyl)phthalate	0.0500	0.0367	0.0303	73.3	60.5	36.9-134			19.1	23.6
Di-n-butyl phthalate	0.0500	0.0389	0.0308	77.9	61.6	41.8-120		J3	23.3	20.2
Diethyl phthalate	0.0500	0.0432	0.0350	86.4	70.0	36.5-129		J3	21.0	20
Dimethyl phthalate	0.0500	0.0401	0.0323	80.2	64.5	35.3-128		J3	21.6	20.8
Di-n-octyl phthalate	0.0500	0.0382	0.0316	76.5	63.2	39.7-112			19.0	21.1
Pyrene	0.0500	0.0412	0.0327	82.4	65.3	46.3-117		J3	23.1	20
1,2,4-Trichlorobenzene	0.0500	0.0186	0.0154	37.3	30.8	22.9-96.1			19.0	27.5
4-Chloro-3-methylphenol	0.0500	0.0362	0.0293	72.3	58.6	35.7-100			21.0	22.9

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/04/15 05:19 • (LCSD) 09/04/15 05:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.0500	0.0177	0.0147	35.4	29.4	26.2-91.5			18.8	26.5
2,4-Dichlorophenol	0.0500	0.0270	0.0224	54.0	44.7	31.4-103			18.8	24.9
2,4-Dimethylphenol	0.0500	0.0268	0.0221	53.5	44.1	31.9-107			19.3	25.7
4,6-Dinitro-2-methylphenol	0.0500	0.0370	0.0315	74.0	62.9	18.4-148			16.1	24.4
2,4-Dinitrophenol	0.0500	0.0314	0.0268	62.8	53.7	24.2-128			15.7	20.5
2-Nitrophenol	0.0500	0.0244	0.0192	48.7	38.4	25.9-106			23.7	26.9
4-Nitrophenol	0.0500	0.0243	0.0197	48.6	39.3	10.0-52.7			21.2	40
Pentachlorophenol	0.0500	0.0370	0.0293	74.0	58.7	10.9-97.4			23.2	35.1
Phenol	0.0500	0.0125	0.0104	25.0	20.8	10.0-57.9			18.2	35
2,4,6-Trichlorophenol	0.0500	0.0358	0.0289	71.7	57.8	29.8-107			21.4	24.1
(S) Nitrobenzene-d5				*39.3*	*32.8*	*21.8-123*				
(S) 2-Fluorobiphenyl				*56.2*	*47.1*	*29.5-131*				
(S) p-Terphenyl-d14				*75.1*	*58.6*	*29.3-137*				
(S) Phenol-d5				*24.9*	*20.6*	*5.00-70.1*				
(S) 2-Fluorophenol				*25.0*	*20.6*	*10.0-77.9*				
(S) 2,4,6-Tribromophenol				*78.6*	*61.6*	*11.2-130*				

L786033-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/04/15 06:29 • (MS) 09/04/15 06:52 • (MSD) 09/04/15 07:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	ND	0.0321	0.0331	64.3	66.2	1	30.7-124			2.89	22.6
Acenaphthylene	0.0500	ND	0.0337	0.0344	67.3	68.8	1	29.0-122			2.13	23.9
Anthracene	0.0500	ND	0.0381	0.0393	76.2	78.6	1	34.2-135			3.07	20
Benzo(a)anthracene	0.0500	ND	0.0385	0.0382	76.9	76.4	1	35.7-138			0.660	20
Benzo(b)fluoranthene	0.0500	ND	0.0396	0.0364	79.1	72.8	1	23.0-145			8.25	20
Benzidine	0.0500	0.00695	0.0264	0.0259	38.9	37.8	1	10.0-159			2.03	40
Benzo(k)fluoranthene	0.0500	ND	0.0371	0.0365	74.3	73.1	1	29.5-143			1.63	20
Benzo(g,h,i)perylene	0.0500	ND	0.0389	0.0381	77.9	76.2	1	10.0-148			2.15	21
Benzo(a)pyrene	0.0500	ND	0.0399	0.0398	79.9	79.7	1	23.3-135			0.240	20
Bis(2-chlorethoxy)methane	0.0500	ND	0.0266	0.0289	53.2	57.8	1	26.4-127			8.25	25.8
Bis(2-chloroethyl)ether	0.0500	ND	0.0154	0.0166	30.7	33.2	1	10.0-154			7.87	40
Bis(2-chloroisopropyl)ether	0.0500	ND	0.0196	0.0212	39.3	42.4	1	19.4-126			7.62	37.2
4-Bromophenyl-phenylether	0.0500	ND	0.0375	0.0380	75.1	75.9	1	34.3-135			1.08	23.2
2-Chloronaphthalene	0.0500	ND	0.0305	0.0324	61.0	64.8	1	29.7-114			6.08	24.2

L786033-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/04/15 06:29 • (MS) 09/04/15 06:52 • (MSD) 09/04/15 07:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.0500	ND	0.0376	0.0366	75.1	73.3	1	35.6-127			2.46	20
Chrysene	0.0500	ND	0.0374	0.0364	74.8	72.8	1	37.0-145			2.82	20
Dibenz(a,h)anthracene	0.0500	ND	0.0386	0.0381	77.2	76.1	1	10.0-147			1.41	22.3
3,3-Dichlorobenzidine	0.0500	ND	0.0409	0.0406	81.8	81.2	1	10.0-162			0.770	26.9
2,4-Dinitrotoluene	0.0500	ND	0.0396	0.0400	79.2	79.9	1	16.2-135			0.960	20.6
2,6-Dinitrotoluene	0.0500	ND	0.0360	0.0359	72.1	71.9	1	25.2-124			0.250	22.2
Fluoranthene	0.0500	ND	0.0416	0.0410	83.3	82.1	1	37.1-139			1.50	20
Fluorene	0.0500	ND	0.0369	0.0366	73.8	73.3	1	10.0-162			0.710	20
Hexachlorobenzene	0.0500	ND	0.0364	0.0371	72.9	74.2	1	31.9-135			1.85	20
Hexachloro-1,3-butadiene	0.0500	ND	0.0200	0.0206	40.0	41.2	1	15.7-109			2.90	37.6
Hexachlorocyclopentadiene	0.0500	ND	0.0148	0.0160	29.5	32.0	1	10.0-123			8.19	27.8
Hexachloroethane	0.0500	ND	0.00958	0.00867	19.2	17.3	1	10.4-105			9.90	40
Indeno(1,2,3-cd)pyrene	0.0500	ND	0.0395	0.0388	79.0	77.6	1	10.0-145			1.86	20
Isophorone	0.0500	ND	0.0314	0.0345	62.8	68.9	1	25.9-133			9.26	22.9
Naphthalene	0.0500	ND	0.0218	0.0241	43.6	48.1	1	20.2-114			9.72	27.5
Nitrobenzene	0.0500	ND	0.0217	0.0246	43.4	49.2	1	23.1-121			12.3	29
n-Nitrosodiphenylamine	0.0500	ND	0.0360	0.0367	72.0	73.3	1	20.6-150			1.88	20
n-Nitrosodi-n-propylamine	0.0500	ND	0.0239	0.0264	47.7	52.7	1	23.9-125			10.0	29.7
n-Nitrosodimethylamine	0.0500	0.000175	0.00450	0.00330	8.64	6.26	1	10.0-94.5	J6	J6	30.6	40
Phenanthrene	0.0500	ND	0.0346	0.0351	69.2	70.3	1	33.0-139			1.46	20
Benzylbutyl phthalate	0.0500	ND	0.0373	0.0376	74.6	75.1	1	13.3-159			0.700	21.2
Bis(2-ethylhexyl)phthalate	0.0500	0.00112	0.0347	0.0346	67.1	66.9	1	15.5-152			0.310	27.6
Di-n-butyl phthalate	0.0500	0.00132	0.0361	0.0373	69.6	72.0	1	26.0-152			3.18	20
Diethyl phthalate	0.0500	ND	0.0424	0.0409	84.7	81.7	1	21.6-154			3.63	20
Dimethyl phthalate	0.0500	ND	0.0384	0.0382	76.7	76.4	1	10.0-157			0.380	20
Di-n-octyl phthalate	0.0500	ND	0.0361	0.0359	72.1	71.7	1	12.3-145			0.580	22.9
Pyrene	0.0500	ND	0.0399	0.0392	79.7	78.5	1	35.5-139			1.59	20
1,2,4-Trichlorobenzene	0.0500	ND	0.0202	0.0220	40.3	44.0	1	21.4-101			8.67	31.3
4-Chloro-3-methylphenol	0.0500	ND	0.0353	0.0363	70.6	72.5	1	35.7-110			2.70	20
2-Chlorophenol	0.0500	ND	0.0168	0.0165	33.7	33.0	1	13.9-105			2.17	32.4
2,4-Dichlorophenol	0.0500	ND	0.0298	0.0317	59.5	63.3	1	34.7-107			6.14	27.3
2,4-Dimethylphenol	0.0500	ND	0.0281	0.0312	56.2	62.4	1	10.0-152			10.5	35.4
4,6-Dinitro-2-methylphenol	0.0500	ND	0.0317	0.0296	63.4	59.1	1	10.0-151			6.89	37.4
2,4-Dinitrophenol	0.0500	ND	0.0282	0.0243	56.3	48.6	1	10.0-136			14.7	40
2-Nitrophenol	0.0500	ND	0.0241	0.0278	48.3	55.5	1	26.7-114			14.0	34
4-Nitrophenol	0.0500	ND	0.0161	0.0146	32.2	29.2	1	10.0-130			9.98	40

L786033-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/04/15 06:29 • (MS) 09/04/15 06:52 • (MSD) 09/04/15 07:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.0500	ND	0.0309	0.0297	61.8	59.4	1	10.0-108			3.96	40
Phenol	0.0500	ND	0.0127	0.0130	25.4	26.1	1	10.0-64.1			2.47	40
2,4,6-Trichlorophenol	0.0500	ND	0.0339	0.0348	67.7	69.6	1	19.1-114			2.63	29.9
(S) Nitrobenzene-d5					*40.2*	*47.5*		*21.8-123*				
(S) 2-Fluorobiphenyl					*58.0*	*62.2*		*29.5-131*				
(S) p-Terphenyl-d14					*68.1*	*67.9*		*29.3-137*				
(S) Phenol-d5					*23.7*	*25.4*		*5.00-70.1*				
(S) 2-Fluorophenol					*16.2*	*14.7*		*10.0-77.9*				
(S) 2,4,6-Tribromophenol					*68.0*	*74.8*		*11.2-130*				

Method Blank (MB)

(MB) 09/03/15 15:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333

Method Blank (MB)

(MB) 09/03/15 15:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Di-n-butyl phthalate	0.0112		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*63.4*		*21.9-129*	
(S) 2-Fluorobiphenyl	*72.2*		*34.9-129*	
(S) p-Terphenyl-d14	*84.3*		*21.5-128*	
(S) Phenol-d5	*66.2*		*26.3-121*	
(S) 2-Fluorophenol	*60.8*		*21.1-116*	
(S) 2,4,6-Tribromophenol	*80.0*		*21.6-142*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 14:33 • (LCSD) 09/03/15 14:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.450	0.504	67.5	75.6	48.9-107			11.4	20
Acenaphthylene	0.667	0.448	0.493	67.2	73.8	49.2-111			9.38	20
Anthracene	0.667	0.461	0.518	69.1	77.7	52.0-112			11.7	20
Benzidine	0.667	0.135	0.175	20.2	26.3	0.000-48.0			26.0	40
Benzo(a)anthracene	0.667	0.450	0.514	67.5	77.0	52.3-106			13.2	20
Benzo(b)fluoranthene	0.667	0.455	0.518	68.3	77.7	51.3-106			13.0	20
Benzo(k)fluoranthene	0.667	0.493	0.571	73.8	85.5	52.9-107			14.7	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 14:33 • (LCSD) 09/03/15 14:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzo(g,h,i)perylene	0.667	0.494	0.554	74.1	83.1	45.8-108			11.4	20
Benzo(a)pyrene	0.667	0.468	0.528	70.1	79.2	51.9-106			12.2	20
Bis(2-chlorethoxy)methane	0.667	0.421	0.468	63.1	70.2	44.9-108			10.6	20
Bis(2-chloroethyl)ether	0.667	0.351	0.417	52.7	62.6	32.5-112			17.1	26
Bis(2-chloroisopropyl)ether	0.667	0.395	0.456	59.2	68.4	40.4-99.0			14.4	20.7
4-Bromophenyl-phenylether	0.667	0.463	0.520	69.5	77.9	51.4-110			11.5	20
2-Chloronaphthalene	0.667	0.453	0.495	68.0	74.3	47.1-105			8.85	20
4-Chlorophenyl-phenylether	0.667	0.454	0.510	68.1	76.4	48.1-108			11.5	20
Chrysene	0.667	0.440	0.502	66.0	75.3	54.4-110			13.2	20
Dibenz(a,h)anthracene	0.667	0.472	0.535	70.7	80.2	45.7-111			12.5	20
3,3-Dichlorobenzidine	0.667	0.405	0.463	60.8	69.4	21.0-101			13.2	22
2,4-Dinitrotoluene	0.667	0.493	0.562	73.9	84.2	53.0-112			13.1	20
2,6-Dinitrotoluene	0.667	0.487	0.557	73.1	83.5	51.6-110			13.3	20
Fluoranthene	0.667	0.448	0.511	67.1	76.6	53.7-110			13.2	20
Fluorene	0.667	0.464	0.519	69.6	77.8	51.1-109			11.2	20
Hexachlorobenzene	0.667	0.482	0.528	72.3	79.1	43.2-104			9.08	20.1
Hexachloro-1,3-butadiene	0.667	0.368	0.413	55.2	62.0	41.5-112			11.6	20
Hexachlorocyclopentadiene	0.667	0.277	0.314	41.6	47.1	13.5-123			12.5	20.7
Hexachloroethane	0.667	0.322	0.399	48.2	59.8	36.2-103			21.4	22.7
Indeno(1,2,3-cd)pyrene	0.667	0.480	0.539	72.0	80.9	47.5-109			11.6	20
Isophorone	0.667	0.461	0.514	69.0	77.1	28.8-104			11.0	20
Naphthalene	0.667	0.392	0.438	58.8	65.6	43.4-103			11.0	20
Nitrobenzene	0.667	0.407	0.465	61.0	69.8	40.7-109			13.4	21
n-Nitrosodimethylamine	0.667	0.313	0.373	46.9	55.9	18.1-122			17.4	23.5
n-Nitrosodiphenylamine	0.667	0.456	0.516	68.4	77.3	48.8-107			12.3	20
n-Nitrosodi-n-propylamine	0.667	0.426	0.472	63.9	70.8	43.3-109			10.2	20
Phenanthrene	0.667	0.454	0.514	68.1	77.1	51.6-107			12.4	20
Benzylbutyl phthalate	0.667	0.467	0.531	70.0	79.6	47.5-115			12.9	20
Bis(2-ethylhexyl)phthalate	0.667	0.419	0.477	62.9	71.5	48.1-116			12.9	20.5
Di-n-butyl phthalate	0.667	0.457	0.510	68.5	76.4	49.7-113			10.9	20
Diethyl phthalate	0.667	0.465	0.524	69.7	78.5	52.0-112			11.9	20
Dimethyl phthalate	0.667	0.470	0.536	70.5	80.3	51.4-108			13.1	20
Di-n-octyl phthalate	0.667	0.409	0.456	61.2	68.4	49.6-112			11.0	22
Pyrene	0.667	0.490	0.552	73.5	82.8	47.1-108			11.8	20
1,2,4-Trichlorobenzene	0.667	0.374	0.430	56.1	64.4	39.8-100			13.8	20
4-Chloro-3-methylphenol	0.667	0.479	0.526	71.8	78.8	51.1-113			9.26	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 14:33 • (LCSD) 09/03/15 14:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Chlorophenol	0.667	0.365	0.427	54.7	64.1	40.8-103			15.7	20
2,4-Dichlorophenol	0.667	0.442	0.493	66.3	74.0	46.2-109			11.0	20
2,4-Dimethylphenol	0.667	0.426	0.484	63.9	72.6	42.2-110			12.7	20
4,6-Dinitro-2-methylphenol	0.667	0.435	0.490	65.2	73.4	23.1-119			11.9	23.7
2,4-Dinitrophenol	0.667	0.296	0.320	44.3	48.0	10.0-105			7.93	36.5
2-Nitrophenol	0.667	0.432	0.482	64.8	72.3	44.2-113			10.9	20.9
4-Nitrophenol	0.667	0.447	0.523	67.0	78.4	34.8-109			15.7	20
Pentachlorophenol	0.667	0.403	0.466	60.5	69.8	16.2-102			14.3	22.9
Phenol	0.667	0.402	0.454	60.2	68.1	41.5-106			12.4	20
2,4,6-Trichlorophenol	0.667	0.476	0.523	71.4	78.3	44.4-108			9.33	20
(S) Nitrobenzene-d5				*57.9*	*67.8*	*21.9-129*				
(S) 2-Fluorobiphenyl				*67.9*	*74.9*	*34.9-129*				
(S) p-Terphenyl-d14				*68.3*	*76.8*	*21.5-128*				
(S) Phenol-d5				*60.7*	*70.2*	*26.3-121*				
(S) 2-Fluorophenol				*52.8*	*65.0*	*21.1-116*				
(S) 2,4,6-Tribromophenol				*72.5*	*85.7*	*21.6-142*				

L786535-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/03/15 19:46 • (MS) 09/03/15 20:09 • (MSD) 09/03/15 20:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	ND	0.501	0.515	75.0	77.2	1	32.2-134			2.83	27.3
Acenaphthylene	0.667	ND	0.497	0.506	74.5	75.8	1	38.7-129			1.77	25.9
Anthracene	0.667	ND	0.519	0.524	77.8	78.6	1	32.3-137			1.00	28.4
Benzidine	0.667	ND	0.0938	0.0997	14.1	14.9	1	0.000-49.9			6.05	40
Benzo(a)anthracene	0.667	ND	0.517	0.517	77.5	77.5	1	33.3-124			0.0700	29
Benzo(b)fluoranthene	0.667	ND	0.493	0.520	73.9	78.0	1	23.3-133			5.50	30.3
Benzo(k)fluoranthene	0.667	ND	0.558	0.582	83.7	87.2	1	31.0-129			4.10	26.7
Benzo(g,h,i)perylene	0.667	ND	0.462	0.435	69.2	65.3	1	10.0-127			5.83	31.9
Benzo(a)pyrene	0.667	ND	0.535	0.533	80.3	80.0	1	28.2-128			0.360	28.4
Bis(2-chlorethoxy)methane	0.667	ND	0.481	0.481	72.2	72.1	1	35.0-132			0.130	26.1
Bis(2-chloroethyl)ether	0.667	ND	0.441	0.419	66.1	62.9	1	28.8-128			5.08	33.6
Bis(2-chloroisopropyl)ether	0.667	ND	0.479	0.470	71.9	70.4	1	31.8-118			1.99	31.7
4-Bromophenyl-phenylether	0.667	ND	0.544	0.553	81.6	82.9	1	39.0-130			1.57	26
2-Chloronaphthalene	0.667	ND	0.514	0.522	77.1	78.3	1	37.5-123			1.51	26.5

L786535-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/03/15 19:46 • (MS) 09/03/15 20:09 • (MSD) 09/03/15 20:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	ND	0.507	0.514	76.0	77.1	1	37.9-123			1.49	25.9
Chrysene	0.667	ND	0.499	0.505	74.8	75.7	1	36.3-129			1.16	28
Dibenz(a,h)anthracene	0.667	ND	0.485	0.459	72.6	68.8	1	10.5-128			5.39	29.5
3,3-Dichlorobenzidine	0.667	ND	0.433	0.449	64.9	67.4	1	10.0-129			3.66	40
2,4-Dinitrotoluene	0.667	ND	0.557	0.583	83.5	87.4	1	27.8-147			4.54	29.7
2,6-Dinitrotoluene	0.667	ND	0.545	0.569	81.7	85.4	1	36.5-137			4.34	29.7
Fluoranthene	0.667	ND	0.514	0.542	77.0	81.3	1	27.9-138			5.38	26.9
Fluorene	0.667	ND	0.520	0.531	77.9	79.6	1	34.0-133			2.12	27.1
Hexachlorobenzene	0.667	ND	0.542	0.560	81.3	83.9	1	34.4-116			3.18	25.4
Hexachloro-1,3-butadiene	0.667	ND	0.476	0.457	71.3	68.5	1	36.5-125			4.04	29.7
Hexachlorocyclopentadiene	0.667	ND	0.272	0.249	40.8	37.3	1	10.0-124			8.82	37.5
Hexachloroethane	0.667	ND	0.424	0.392	63.6	58.8	1	11.3-143			7.80	31.9
Indeno(1,2,3-cd)pyrene	0.667	ND	0.497	0.471	74.6	70.6	1	10.0-128			5.53	31.5
Isophorone	0.667	ND	0.523	0.521	78.4	78.1	1	25.7-116			0.360	27.7
Naphthalene	0.667	ND	0.475	0.477	71.2	71.5	1	36.4-121			0.460	27.2
Nitrobenzene	0.667	ND	0.498	0.496	74.7	74.4	1	30.9-134			0.350	27.8
n-Nitrosodimethylamine	0.667	ND	0.395	0.352	59.3	52.8	1	19.2-127			11.5	32
n-Nitrosodiphenylamine	0.667	ND	0.528	0.536	79.1	80.3	1	26.8-133			1.50	25.9
n-Nitrosodi-n-propylamine	0.667	ND	0.480	0.482	72.0	72.3	1	33.0-134			0.410	28.2
Phenanthrene	0.667	ND	0.512	0.522	76.7	78.3	1	30.8-137			1.95	26.5
Benzylbutyl phthalate	0.667	ND	0.524	0.512	78.5	76.8	1	33.4-128			2.18	28.5
Bis(2-ethylhexyl)phthalate	0.667	0.00732	0.473	0.471	69.8	69.6	1	21.8-141			0.270	35.2
Di-n-butyl phthalate	0.667	0.163	0.738	0.604	86.2	66.1	1	32.2-133			20.0	25.9
Diethyl phthalate	0.667	ND	0.526	0.534	78.8	80.0	1	39.4-136			1.57	25.5
Dimethyl phthalate	0.667	ND	0.527	0.536	79.0	80.4	1	35.8-137			1.76	25.4
Di-n-octyl phthalate	0.667	ND	0.478	0.486	71.6	72.9	1	28.5-128			1.82	32.5
Pyrene	0.667	ND	0.534	0.513	80.1	77.0	1	24.1-130			3.94	29.9
1,2,4-Trichlorobenzene	0.667	ND	0.470	0.453	70.5	67.9	1	36.5-114			3.70	28.4
4-Chloro-3-methylphenol	0.667	ND	0.546	0.559	81.8	83.8	1	27.0-154			2.32	26.6
2-Chlorophenol	0.667	ND	0.468	0.452	70.1	67.8	1	33.2-121			3.31	29.3
2,4-Dichlorophenol	0.667	ND	0.539	0.552	80.8	82.7	1	34.8-134			2.36	27.3
2,4-Dimethylphenol	0.667	ND	0.513	0.520	77.0	78.0	1	12.3-149			1.37	32.3
4,6-Dinitro-2-methylphenol	0.667	ND	0.596	0.594	89.3	89.1	1	10.0-144			0.290	32.7
2,4-Dinitrophenol	0.667	ND	0.449	0.457	67.3	68.6	1	10.0-121			1.79	39.4
2-Nitrophenol	0.667	ND	0.557	0.549	83.6	82.3	1	29.5-144			1.53	29.9
4-Nitrophenol	0.667	ND	0.537	0.558	80.6	83.7	1	20.0-133			3.77	30.2

L786535-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/03/15 19:46 • (MS) 09/03/15 20:09 • (MSD) 09/03/15 20:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Pentachlorophenol	0.667	ND	0.556	0.567	83.3	85.0	1	10.0-139			1.91	28.3
Phenol	0.667	ND	0.486	0.477	72.9	71.5	1	25.1-130			1.88	29.6
2,4,6-Trichlorophenol	0.667	ND	0.556	0.557	83.4	83.6	1	33.8-133			0.200	28.1
(S) Nitrobenzene-d5					*72.9*	*72.8*		*21.9-129*				
(S) 2-Fluorobiphenyl					*73.3*	*76.2*		*34.9-129*				
(S) p-Terphenyl-d14					*73.6*	*68.4*		*21.5-128*				
(S) Phenol-d5					*72.6*	*73.3*		*26.3-121*				
(S) 2-Fluorophenol					*70.6*	*67.2*		*21.1-116*				
(S) 2,4,6-Tribromophenol					*89.4*	*92.2*		*21.6-142*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

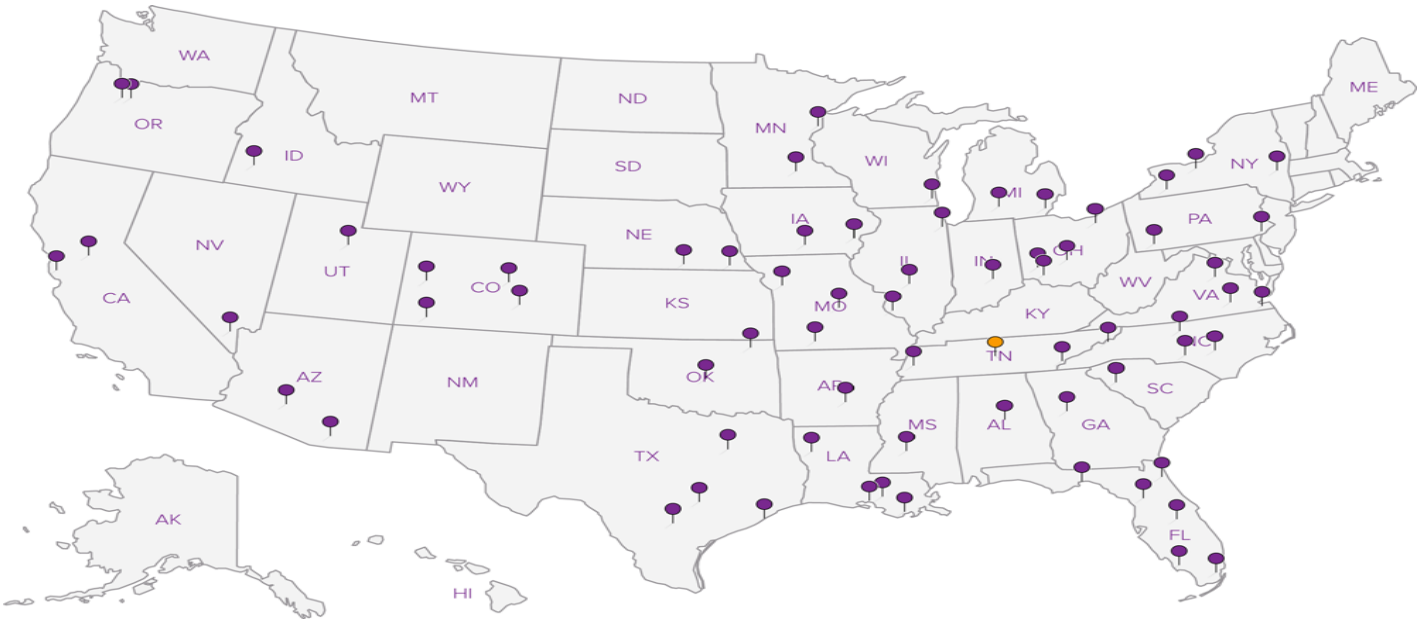
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Duncklee & Dunham
511 Keisler Dr.
Cary, North Carolina 27518

Billing Information: Same

Report to: Matt Flinchum, Dave Duncklee

Email To: Dave@dunckleedunham.com
matt @dunckleedunham.com

Project Description: **Umicore**

City/State Collected: **Maxton, NC**

Phone: **919-858-9898**
Fax: **919-858-9899**

Client Project # **200917**

Lab Project #

Collected by (print): Hanks Molyneux

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: 1 week/Standard

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABS SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 178648
Table **D209**
Acctnum: **DUNDUNNC**
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	TPH DRO	TPH GRO	V8260	SV8270	MADEP EPH	MADEP VPH	V602 w/ Xylenes	SV625 BNA + TICs			Rem./Contaminant	Sample # (lab only)
CS-25 15.5'	Grab	SS	15.5'	8-31-15	1150	9	X	X	X	X	X	X						-01
MW-12B	↓	GW	—	↓	1320	8					X	X	X	X				02
MW-12	↓	GW	—	↓	1540	8					X	X	X	X				03
Trip Blank	—	—	—	—	—	1			X									04

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/1/15	1410	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date: 9/1/15	Time: 18:15	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.2 °C Bottles Received: 26

Date: 9/2/15 Time: 0830

Condition: (lab use only) a

COC Seal Intact: ___Y ___N ___NA

pH Checked: 12

NCF: