

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

October 22, 2009

Project: Hooven Cincinnati Final Remedy

Samples arrived at the laboratory on Friday, October 09, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1165669.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-132,100509 Grab Water	5801473
MW-132,100509 Filtered Grab Water	5801474
MW-134,100509 Grab Water	5801475
MW-134,100509 Filtered Grab Water	5801476
MW-120,100709 Grab Water	5801477
MW-120,100709 Filtered Grab Water	5801478
MW-138,100709 Grab Water	5801479
MW-138,100709 Filtered Grab Water	5801480
MW-139,100709 Grab Water	5801481
MW-139,100709 Filtered Grab Water	5801482
MW-133,100809 Grab Water	5801483
MW-133,100809 Filtered Grab Water	5801484
EB-1,100709 Grab Water	5801485
EB-1,100709 Filtered Grab Water	5801486
Trip Blank,100809 Water	5801487

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

COPY TO
ELECTRONIC Trihydro Corporation
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ELECTRONIC Trihydro Corporation
COPY TO

Attn: Tim Gunn

Attn: Matthew Mitchell

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,



Robin C. Runkle
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-132,100509 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801473
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/05/2009 10:50 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

132-- SDG#: HVQ27-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 18:21	Emily R Styer	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 18:21	Emily R Styer	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-132,100509 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801474
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/05/2009 10:50 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

132-F SDG#: HVQ27-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/13/2009 23:12	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/13/2009 23:12	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-134,100509 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801475
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/05/2009 11:30 by DB Account Number: 11494
Submitted: 10/09/2009 09:30 Chevron
Reported: 10/22/2009 at 09:01 5000 State Route 128
Discard: 12/22/2009 HOOVEN OH 45033

134-- SDG#: HVQ27-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 18:44	Emily R Styer	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 18:44	Emily R Styer	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-134,100509 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801476
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/05/2009 11:30 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

134-F SDG#: HVQ27-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:11	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:11	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-120,100709 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801477
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 11:00 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

120-- SDG#: HVQ27-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 19:07	Emily R Styer	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 19:07	Emily R Styer	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-120,100709 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801478
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 11:00 by DB Account Number: 11494
Submitted: 10/09/2009 09:30 Chevron
Reported: 10/22/2009 at 09:01 5000 State Route 128
Discard: 12/22/2009 HOOVEN OH 45033

120-F SDG#: HVQ27-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:14	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:14	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-138,100709 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801479
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 13:40 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

138-- SDG#: HVQ27-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 19:31	Emily R Styer	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 19:31	Emily R Styer	1



Analysis Report

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Sample Description: MW-138,100709 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801480
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 13:40 by DB Account Number: 11494

Submitted: 10/09/2009 09:30 Chevron
Reported: 10/22/2009 at 09:01 5000 State Route 128
Discard: 12/22/2009 HOOVEN OH 45033

138-F SDG#: HVQ27-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:18	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:18	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-139,100709 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801481
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 14:40 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

139-- SDG#: HVQ27-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	17	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 19:54	Emily R Styer	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 19:54	Emily R Styer	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-139,100709 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801482
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 14:40 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

139-F SDG#: HVQ27-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0131 J	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:21	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:21	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1

Sample Description: MW-133,100809 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801483
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/08/2009 13:15 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133-- SDG#: HVQ27-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1
GC Miscellaneous					
	SW-846 8015B modified		ug/l	ug/l	
07105	Methane	74-82-8	7.1 J	5.0	1
Metals					
	SW-846 6010B		mg/l	mg/l	
01750	Calcium	7440-70-2	90.7	0.0702	1
01754	Iron	7439-89-6	N.D.	0.0522	1
07058	Manganese	7439-96-5	0.0800	0.00084	1
01762	Potassium	7440-09-7	26.9	0.239	1
01767	Sodium	7440-23-5	38.6	0.433	1
	SW-846 6010B modified		mg/l	mg/l	
02268	Ferric Iron	n.a.	N.D.	0.052	1
Wet Chemistry					
	EPA 300.0		mg/l	mg/l	
00224	Chloride	16887-00-6	51.8	4.0	20
00228	Sulfate	14808-79-8	31.7	1.5	5
	EPA 351.2		mg/l	mg/l	
00217	Kjeldahl Nitrogen	n.a.	N.D.	0.50	1
	EPA 353.2		mg/l	mg/l	
00220	Nitrate Nitrogen	14797-55-8	0.22	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM20 5310 C		mg/l	mg/l	
00273	Total Organic Carbon	n.a.	1.7	0.50	1
	EPA 410.4		mg/l	mg/l	
04001	Chemical Oxygen Demand	n.a.	13.7 J	12.8	1
	SM20 2320 B		mg/l as CaCO3	mg/l as CaCO3	
00202	Alkalinity to pH 4.5	n.a.	401	0.46	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	1
	SM20 3500 Fe B modified		mg/l	mg/l	
08344	Ferrous Iron	n.a.	N.D.	0.010	1

Sample Description: MW-133,100809 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801483
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/08/2009 13:15 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133-- SDG#: HVQ27-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry					
00230	Sulfide	SM20 4500 S2 D 18496-25-8	mg/l N.D.	mg/l 0.054	1
00221	Ammonia Nitrogen	SM20 4500NH3 B/C modified 7664-41-7	mg/l N.D.	mg/l 0.20	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	W092851AA	10/12/2009 20:17	Emily R Styer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092851AA	10/12/2009 20:17	Emily R Styer	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	092860000A	10/13/2009 11:54	Dustin A Underkoffler	1
01750	Calcium	SW-846 6010B	1	092851848003	10/14/2009 00:32	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	092851848003	10/14/2009 00:32	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	092851848003	10/14/2009 00:32	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	092851848003	10/14/2009 00:32	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	092851848003	10/14/2009 00:32	John W Yanzuk II	1
02268	Ferric Iron	SW-846 6010B modified	1	092872268001	10/14/2009 09:21	Deborah A Krady	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1
00224	Chloride	EPA 300.0	1	09290196101A	10/18/2009 03:38	Ashley M Adams	20
00228	Sulfate	EPA 300.0	1	09290196101A	10/17/2009 09:18	Ashley M Adams	5
00217	Kjeldahl Nitrogen	EPA 351.2	1	09292108101A	10/21/2009 19:21	Joseph E McKenzie	1
00220	Nitrate Nitrogen	EPA 353.2	1	09288106101A	10/15/2009 10:11	K. Robert Caulfeild-James	1
00219	Nitrite Nitrogen	EPA 353.2	1	09282105101A	10/09/2009 19:39	Venia B McFadden	1
00273	Total Organic Carbon	SM20 5310 C	1	09286049502B	10/13/2009 05:20	James S Mathiot	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	09292108101A	10/19/2009 11:10	Nancy J Shoop	1
04001	Chemical Oxygen Demand	EPA 410.4	1	09287400101B	10/14/2009 07:40	Susan A Engle	1
00202	Alkalinity to pH 4.5	SM20 2320 B	1	09285020201A	10/12/2009 14:34	Geraldine C Smith	1
00201	Alkalinity to pH 8.3	SM20 2320 B	1	09285020201A	10/12/2009 14:34	Geraldine C Smith	1
00230	Sulfide	SM20 4500 S2 D	1	09286023001A	10/13/2009 19:25	Geraldine C Smith	1
00221	Ammonia Nitrogen	SM20 4500NH3 B/C modified	1	09286022101A	10/13/2009 18:00	Luz M Groff	1
08344	Ferrous Iron	SM20 3500 Fe B modified	1	09284834401A	10/11/2009 06:00	Daniel S Smith	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-133,100809 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801484
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/08/2009 13:15 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133-F SDG#: HVQ27-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1
07058	Manganese	7439-96-5	0.0815	0.00084	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:35	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:35	John W Yanzuk II	1
07058	Manganese	SW-846 6010B	1	092851848003	10/14/2009 00:35	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: EB-1,100709 Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801485
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 08:00 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133E1 SDG#: HVQ27-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T092852AA	10/13/2009 02:32	Kerri E Koch	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	T092852AA	10/13/2009 02:32	Kerri E Koch	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: EB-1,100709 Filtered Grab Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801486
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/07/2009 08:00 by DB

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133EF SDG#: HVQ27-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered for metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	092851848003	10/14/2009 00:39	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	092851848003	10/14/2009 00:39	John W Yanzuk II	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092851848003	10/12/2009 20:45	Mirit S Shenouda	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: Trip Blank, 100809 Water
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5801487
LLI Group # 1165669
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 10/08/2009 14:00

Account Number: 11494

Submitted: 10/09/2009 09:30

Chevron

Reported: 10/22/2009 at 09:01

5000 State Route 128

Discard: 12/22/2009

HOOVEN OH 45033

133TB SDG#: HVQ27-15TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
07582	Benzene	71-43-2	N.D.	0.5	1
07582	Chlorobenzene	108-90-7	N.D.	0.8	1
07582	Ethylbenzene	100-41-4	N.D.	0.8	1
07582	Toluene	108-88-3	N.D.	0.7	1
07582	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T092852AA	10/13/2009 00:37	Kerri E Koch	1
07582	PPL + Xylene (total) by 8260	SW-846 8260B	1	T092852AA	10/13/2009 00:37	Kerri E Koch	1

Quality Control Summary

 Client Name: Chevron
 Reported: 10/22/09 at 09:01 AM

Group Number: 1165669

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T092852AA	Sample number(s): 5801485,5801487							
Benzene	N.D.	0.5	ug/l	97		79-120		
Chlorobenzene	N.D.	0.8	ug/l	98		80-120		
Ethylbenzene	N.D.	0.8	ug/l	96		79-120		
Toluene	N.D.	0.7	ug/l	94		79-120		
Xylene (Total)	N.D.	0.8	ug/l	99		80-120		
Batch number: W092851AA	Sample number(s): 5801473,5801475,5801477,5801479,5801481,5801483							
Benzene	N.D.	0.5	ug/l	93	95	79-120	2	30
Chlorobenzene	N.D.	0.8	ug/l	97	96	80-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	93	92	79-120	1	30
Toluene	N.D.	0.7	ug/l	91	91	79-120	0	30
Xylene (Total)	N.D.	0.8	ug/l	93	93	80-120	0	30
Batch number: 092860000A	Sample number(s): 5801483							
Methane	N.D.	5.0	ug/l	105		80-120		
Batch number: 092851848003	Sample number(s): 5801474,5801476,5801478,5801480,5801482-5801484,5801486							
Arsenic	N.D.	0.0072	mg/l	98		89-115		
Calcium	N.D.	0.0702	mg/l	102		90-112		
Iron	N.D.	0.0522	mg/l	98		90-112		
Lead	N.D.	0.0069	mg/l	97		80-120		
Manganese	N.D.	0.00084	mg/l	100		90-110		
Potassium	N.D.	0.239	mg/l	100		85-115		
Sodium	N.D.	0.433	mg/l	100		87-114		
Batch number: 09282105101A	Sample number(s): 5801483							
Nitrite Nitrogen	N.D.	0.015	mg/l	100		90-110		
Batch number: 09286049502B	Sample number(s): 5801483							
Total Organic Carbon	N.D.	0.50	mg/l	101		91-113		
Batch number: 09288106101A	Sample number(s): 5801483							
Nitrate Nitrogen	N.D.	0.040	mg/l	108		90-110		
Batch number: 09290196101A	Sample number(s): 5801483							
Chloride	N.D.	0.20	mg/l	106		90-110		
Sulfate	N.D.	0.30	mg/l	93		89-110		
Batch number: 09292108101A	Sample number(s): 5801483							
Kjeldahl Nitrogen	N.D.	0.50	mg/l	90		90-110		
Batch number: 09284834401A	Sample number(s): 5801483							
Ferrous Iron	N.D.	0.010	mg/l	99		92-105		
Batch number: 09285020201A	Sample number(s): 5801483							
Alkalinity to pH 4.5	N.D.	0.46	mg/l as	100		98-103		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1165669
 Reported: 10/22/09 at 09:01 AM

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u> CaCO3	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 09286022101A Ammonia Nitrogen	Sample number(s): 5801483 N.D.	0.20	mg/l	92	92	85-105	1	5
Batch number: 09286023001A Sulfide	Sample number(s): 5801483 N.D.	0.054	mg/l	99		90-110		
Batch number: 09287400101B Chemical Oxygen Demand	Sample number(s): 5801483			103		94-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: T092852AA	Sample number(s): 5801485, 5801487 UNSPK: P802754								
Benzene	111	111	80-126	0	30				
Chlorobenzene	110	112	87-124	2	30				
Ethylbenzene	109	110	71-134	1	30				
Toluene	106	110	80-125	4	30				
Xylene (Total)	109	112	79-125	2	30				
Batch number: W092851AA	Sample number(s): 5801473, 5801475, 5801477, 5801479, 5801481, 5801483 UNSPK: P801368								
Benzene	104		80-126						
Chlorobenzene	105		87-124						
Ethylbenzene	102		71-134						
Toluene	102		80-125						
Xylene (Total)	103		79-125						
Batch number: 092860000A	Sample number(s): 5801483 UNSPK: P802803								
Methane	-2000 (2)	-2000 (2)	35-157	0	20				
Batch number: 092851848003	Sample number(s): 5801474, 5801476, 5801478, 5801480, 5801482-5801484, 5801486 UNSPK: 5801474 BKG: 5801474								
Arsenic	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Calcium	82 (2)	92 (2)	75-125	0	20	87.9	88.2	0	20
Iron	100	101	75-125	0	20	0.104 J	0.137 J	27* (1)	20
Lead	97	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Manganese	99	98	75-125	0	20	0.0268	0.0293	9	20
Potassium	101	101	75-125	0	20	3.82	3.93	3	20
Sodium	101 (2)	104 (2)	75-125	1	20	44.3	44.8	1	20
Batch number: 09282105101A	Sample number(s): 5801483 UNSPK: P802134 BKG: P802134								
Nitrite Nitrogen	98		90-110			N.D.	N.D.	0 (1)	20
Batch number: 09286049502B	Sample number(s): 5801483 UNSPK: P801854 BKG: P801854								
Total Organic Carbon	105		64-141			8.1	8.1	0	4

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron
 Reported: 10/22/09 at 09:01 AM

Group Number: 1165669

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 09288106101A Nitrate Nitrogen	117*		90-110	UNSPK:	P804141	BKG: P804141 1.9	P804141 2.4	26* (1)	2
Batch number: 09290196101A Chloride	100		90-110	UNSPK:	5801483	BKG: 5801483 51.8	5801483 51.4	1	20
Batch number: 09292108101A Kjeldahl Nitrogen	108		90-110	UNSPK:	P804211	BKG: P804211 N.D.	P804211 N.D.	0 (1)	20
Batch number: 09284834401A Ferrous Iron	104	101	66-130	UNSPK:	P802806	BKG: P802806 3.2	P802806 3.2	2 (1)	10
Batch number: 09285020201A Alkalinity to pH 4.5	99	101	64-130	UNSPK:	P797310	BKG: P797310 373	P797310 374	0	4
Batch number: 09287400101B Chemical Oxygen Demand	98		90-110	UNSPK:	P801415	BKG: P801415 N.D.	P801415 N.D.	0 (1)	5
Batch number: 09286022101A Ammonia Nitrogen				BKG:	P800719	31.9	30.6	4*	2
Batch number: 09286023001A Sulfide	97	97	69-133	UNSPK:	5801483	BKG: P802503 3.9	P802503 3.9	0	7

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PPL + Xylene (total) by 8260

Batch number: T092852AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5801485	90	87	91	89
5801487	91	88	91	89
Blank	91	89	90	89
LCS	90	85	90	90
MS	88	89	90	90
MSD	90	90	91	92
Limits:	80-116	77-113	80-113	78-113

Analysis Name: PPL + Xylene (total) by 8260

Batch number: W092851AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5801473	99	93	87	89
5801475	99	92	87	87

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/22/09 at 09:01 AM

Group Number: 1165669

Surrogate Quality Control

5801477	98	94	88	88
5801479	99	92	87	88
5801481	97	91	90	91
5801483	100	93	87	88
Blank	96	88	87	89
LCS	96	92	90	94
LCSD	96	92	89	93
MS	97	92	90	95
<hr/>				
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 092860000A
Propene

5801483	81
Blank	110
LCS	108
MS	73
MSD	79
<hr/>	
Limits:	42-131

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 11494 Group# 1165669 Sample # 5801473-87

COC # 211756

Please print. Instructions on reverse side correspond with circled numbers.

<p>1 Client: <u>CHEVRON</u> Acct. #: <u>11494</u></p> <p>Project Name/#: <u>2nd Semi-Annual 2009</u> PWSID #: <u>PA001700A20</u></p> <p>Project Manager: <u>DOUG LAM</u> P.O.#: _____</p> <p>Sampler: <u>DALE BARRETT</u> Quote #: _____</p> <p>Name of state where samples were collected: <u>OHIO</u></p>				<p>4 Matrix</p> <p style="font-size: small;">Soil <input type="checkbox"/> Water <input type="checkbox"/> Other <input type="checkbox"/></p> <p style="font-size: x-small;"> <input type="checkbox"/> Portable Check if NPDES Applicable <input type="checkbox"/> NPDES Applicable </p>		<p>5 Analyses Requested</p> <p style="text-align: center;">Preservation Codes</p>										<p>For Lab Use Only</p> <p>FSC: _____</p> <p>SCR#: _____</p>				
				<p style="font-size: small;">Total # of Containers</p> <p style="font-size: x-small;"> <input type="checkbox"/> VOC's PR 8260 <input type="checkbox"/> Pb/PbAs <input type="checkbox"/> DISSOLVED METALS <input type="checkbox"/> MVA </p>										<p>6 Preservation Codes</p> <p style="font-size: x-small;"> H=HCl T=Thiosulfate N=HNO₃ B=NaOH S=H₂SO₄ O=Other </p>						
<p>2</p>				<p>3</p>										<p>Remarks</p>		<p style="font-size: x-small;">Temperature of samples upon receipt (if requested)</p>				
Sample Identification		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers		VOC's PR 8260		Pb/PbAs		DISSOLVED METALS		MVA		Remarks	Temperature of samples upon receipt (if requested)
<u>MW-132, 100509</u>		<u>10-5-09</u>	<u>10 50</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>								<u>SEE ATTACHED ANALYTE LIST</u>	<u>4.1°C</u>
<u>MW-134, 100509</u>		<u>10-5-09</u>	<u>11 30</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>									
<u>MW-120, 100709</u>		<u>10-7-09</u>	<u>11 00</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>									
<u>MW-138, 100709</u>		<u>10-7-09</u>	<u>13 40</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>									
<u>MW-139, 100709</u>		<u>10-7-09</u>	<u>14 40</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>									
<u>MW-133, 100809</u>		<u>10-08-09</u>	<u>13 15</u>	<u>X</u>			<u>X</u>		<u>16</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>EB-1, 100709</u>		<u>10-7-09</u>	<u>08 00</u>	<u>X</u>			<u>X</u>		<u>4</u>	<u>X</u>	<u>X</u>									
<u>TRIP BLANK, 100809</u>		<u>10-8-09</u>	<u>14 00</u>	<u>X</u>			<u>X</u>		<u>2</u>	<u>X</u>										
<p>7 Turnaround Time Requested (TAT) (please circle: <u>Normal</u> Rush)</p> <p>(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)</p> <p>Date results are needed: _____</p> <p>Rush results requested by (please circle): Phone Fax <u>E-mail</u></p> <p>Phone #: <u>513 353 1323</u> Fax #: <u>513 353 4664</u></p> <p>E-mail address: <u>MAITENELL@TRIHYDRO.COM</u></p>				<p>Relinquished by: <u>D. Barrett</u> Date: <u>10-8-09</u> Time: <u>1430</u></p> <p>Relinquished by: _____ Date: _____ Time: _____</p>		<p>Received by: _____ Date: _____ Time: _____</p>														
<p>8 Data Package Options (please circle if required)</p> <p>Type I (validation/NJ Reg) TX TRRP-13 Yes No</p> <p>Type II (Tier II) MA MCP CT RCP</p> <p>Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes No</p> <p>Type IV (CLP SOW) (If yes, indicate QC sample and submit triplicate volume.)</p> <p>Type VI (Raw Data Only) Internal COC Required? Yes / No _____</p>				<p>SDG Complete? Yes No</p>		<p>Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____</p>		<p>Received by: <u>By Dan</u> Date: <u>10/9/09</u> Time: <u>930</u></p>												

Analytical Requests for Groundwater
Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics

Benzene
Chlorobenzene
Ethylbenzene
Toluene
Xylenes (total)

COC
LIST

Dissolved Metals - field filtered

Arsenic
Lead

GRAB
DIR

TPH

Monitored Natural Attenuation

Alkalinity
Calcium
Chemical Oxygen Demand
Chloride
Iron (II) and Iron (III)
Dissolved and Total Manganese
Methane
Nitrate Nitrogen
Nitrite Nitrogen
Ammonia Nitrogen
Total Kjeldahl Nitrogen
Potassium
Sodium
Sulfate
Sulfide
Total Organic Carbon

(5) Blind Dup - COC LIST

(3) ms/msd - COC + TPH only

(5) Equipment Blanks - COC + TPH only

(5) Field Blanks - COC + TPH only

1 TAP BLANK PER SHIPMENT

Environmental Sample Administration Receipt Documentation Log

Client/Project: Chevron
 Date of Receipt: 10/9/09
 Time of Receipt: 9:30
 Source Code: 501
 Unpacker Emp. No.: 2316

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0129965	4.10c	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>Ray D...</u>	<u>10/9/09</u>	<u>1030</u>	Unpacking
<u>R. Reslund</u>	<u>10/9/09</u>	<u>1040</u>	Place in Storage or <u>Entry</u>
			Entry
			Entry

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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