

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

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

December 18, 2009

Project: Hooven Monthly Southwest Quad

Samples arrived at the laboratory on Tuesday, December 15, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1175179.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-133,121109 Grab Water Sample	5864331
MW-35,121109 Grab Water Sample	5864332
MW-138,121409 Grab Water Sample	5864333
MW-139,121409 Grab Water Sample	5864334
MW-142,121409 Grab Water Sample	5864335
Trip_Blank,121409 Water Sample	5864336

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

ELECTRONIC COPY TO	Trihydro Corporation	Attn: Trihydro Database
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Tim Gunn
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Matthew Mitchell

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

Respectfully Submitted,



Marla S. Lord
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-133,121109 Grab Water Sample
Monthly Southwest Quad**

**LLI Sample # WW 5864331
LLI Group # 1175179
OH**

Project Name: Hooven Monthly Southwest Quad

Collected: 12/11/2009 10:10 by DB

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SQ133

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	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	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	N093502AA	12/16/2009 18:20	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 18:20	Daniel H Heller	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-35,121109 Grab Water Sample
Monthly Southwest Quad**

**LLI Sample # WW 5864332
LLI Group # 1175179
OH**

Project Name: Hooven Monthly Southwest Quad

Collected: 12/11/2009 11:20 by DB

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SQ-35

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	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	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	N093502AA	12/16/2009 18:43	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 18:43	Daniel H Heller	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-138,121409 Grab Water Sample
Monthly Southwest Quad**

**LLI Sample # WW 5864333
LLI Group # 1175179
OH**

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 10:25 by DB

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SQ138

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	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	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	N093502AA	12/16/2009 19:06	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:06	Daniel H Heller	1

**Sample Description: MW-139,121409 Grab Water Sample
Monthly Southwest Quad**

**LLI Sample # WW 5864334
LLI Group # 1175179
OH**

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 11:35 by DB

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SQ139

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	
06291	Benzene	71-43-2	4 J	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	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	N093502AA	12/16/2009 19:29	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:29	Daniel H Heller	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-142,121409 Grab Water Sample
Monthly Southwest Quad**

**LLI Sample # WW 5864335
LLI Group # 1175179
OH**

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 12:40 by DB

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SQ142

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	
06291	Benzene	71-43-2	35	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	120	0.8	1
06291	Toluene	108-88-3	13	0.7	1
06291	Xylene (Total)	1330-20-7	130	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	N093502AA	12/16/2009 19:53	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 19:53	Daniel H Heller	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,121409 Water Sample
Monthly Southwest Quad

LLI Sample # WW 5864336
LLI Group # 1175179
OH

Project Name: Hooven Monthly Southwest Quad

Collected: 12/14/2009 14:25

Account Number: 11494

Submitted: 12/15/2009 09:20

Chevron

Reported: 12/18/2009 at 12:31

5000 State Route 128

Discard: 02/17/2010

HOOVEN OH 45033

SWQTB

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	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	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	N093502AA	12/16/2009 13:43	Daniel H Heller	1
06291	TCL by 8260 (water)	SW-846 8260B	1	N093502AA	12/16/2009 13:43	Daniel H Heller	1

Quality Control Summary

 Client Name: Chevron
 Reported: 12/18/09 at 12:31 PM

Group Number: 1175179

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: N093502AA	Sample number(s): 5864331-5864336							
Benzene	N.D.	0.5	ug/l	93	93	79-120	0	30
Chlorobenzene	N.D.	0.8	ug/l	95	96	80-120	2	30
Ethylbenzene	N.D.	0.8	ug/l	92	94	79-120	2	30
Toluene	N.D.	0.7	ug/l	93	94	79-120	2	30
Xylene (Total)	N.D.	0.8	ug/l	91	94	80-120	2	30

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: N093502AA	Sample number(s): 5864331-5864336 UNSPK: P861730								
Benzene	102		80-126						
Chlorobenzene	104		87-124						
Ethylbenzene	103		71-134						
Toluene	102		80-125						
Xylene (Total)	102		79-125						

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: TCL by 8260 (water)
 Batch number: N093502AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5864331	99	104	101	90
5864332	99	103	101	90
5864333	100	105	102	92
5864334	98	104	101	92
5864335	97	101	103	99
5864336	97	101	100	91
Blank	97	102	100	90
LCS	98	106	103	100
LCSD	98	106	103	100
MS	97	101	104	101

*- 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: 12/18/09 at 12:31 PM

Group Number: 1175179

Surrogate Quality Control

Limits: 80-116

77-113

80-113

78-113

*- 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# 1175179 Sample # 5864331-36 **COC #** 211770

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

temp = 2.9°C

<p>1 Client: <u>CHEVRON</u> Acct. #: <u>11494</u> Project Name: <u>MONTHLY SOUTH WEST QUAD DEC 09</u> PWSID: <u>MULLEN17000 M20</u> Project Manager: <u>DOUG LAM</u> P.O. #: _____ Sampler: <u>DALE BARRETT</u> Quote #: _____ Name of state where samples were collected: <u>OHIO</u></p>	4	5 Analyses Requested	<p>Matrix</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">Potable</td> <td style="width: 25%; text-align: center;">Check if</td> <td style="width: 25%; text-align: center;">NPDES</td> <td style="width: 25%; text-align: center;">Applicable</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Potable	Check if	NPDES	Applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6																																																								
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<p>2 Sample Identification</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Date Collected</th> <th style="width: 10%;">Time Collected</th> <th style="width: 5%;">Grab</th> <th style="width: 5%;">Composite</th> <th style="width: 5%;">Soil</th> <th style="width: 5%;">Water</th> <th style="width: 5%;">Other</th> <th style="width: 5%;">Total # of Containers</th> <th style="width: 10%;">VOC'S</th> <th style="width: 20%;">Remarks</th> </tr> </thead> <tbody> <tr> <td><u>MW-133, 121109</u></td> <td><u>12-11-09</u></td> <td><u>1010</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>3</u></td> <td><u>X</u></td> <td rowspan="6" style="text-align: center; vertical-align: middle;"><u>SEE ATTACHED ANALYTE LIST</u></td> </tr> <tr> <td><u>MW-35, 121109</u></td> <td><u>12-11-09</u></td> <td><u>1120</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>3</u></td> <td><u>X</u></td> </tr> <tr> <td><u>MW-138, 121409</u></td> <td><u>12-14-09</u></td> <td><u>1025</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>3</u></td> <td><u>X</u></td> </tr> <tr> <td><u>MW-139, 121409</u></td> <td><u>12-14-09</u></td> <td><u>1135</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>3</u></td> <td><u>X</u></td> </tr> <tr> <td><u>MW-142, 121409</u></td> <td><u>12-14-09</u></td> <td><u>1240</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>3</u></td> <td><u>X</u></td> </tr> <tr> <td><u>TRIP BLANK, 121409</u></td> <td><u>12-14-09</u></td> <td><u>1425</u></td> <td><u>X</u></td> <td></td> <td><u>X</u></td> <td></td> <td><u>2</u></td> <td><u>X</u></td> </tr> </tbody> </table>		Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	VOC'S	Remarks	<u>MW-133, 121109</u>	<u>12-11-09</u>	<u>1010</u>	<u>X</u>		<u>X</u>		<u>3</u>	<u>X</u>	<u>SEE ATTACHED ANALYTE LIST</u>	<u>MW-35, 121109</u>	<u>12-11-09</u>	<u>1120</u>	<u>X</u>		<u>X</u>		<u>3</u>	<u>X</u>	<u>MW-138, 121409</u>	<u>12-14-09</u>	<u>1025</u>	<u>X</u>		<u>X</u>		<u>3</u>	<u>X</u>	<u>MW-139, 121409</u>	<u>12-14-09</u>	<u>1135</u>	<u>X</u>		<u>X</u>		<u>3</u>	<u>X</u>	<u>MW-142, 121409</u>	<u>12-14-09</u>	<u>1240</u>	<u>X</u>		<u>X</u>		<u>3</u>	<u>X</u>	<u>TRIP BLANK, 121409</u>	<u>12-14-09</u>	<u>1425</u>	<u>X</u>		<u>X</u>		<u>2</u>	<u>X</u>	3	6
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<p>7 Turnaround Time Requested (TAT) (please circle): Normal <u>Rush</u> (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: <u>ASAP</u> Rush results requested by (please circle): Phone Fax <u>E-mail</u> Phone #: <u>513 353 1323</u> Fax #: <u>513 353 4664</u> E-mail address: <u>MMITCHELL@TRIHYDRO.COM</u></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Relinquished by:</td> <td style="width: 10%;">Date</td> <td style="width: 10%;">Time</td> <td style="width: 30%;">Received by:</td> <td style="width: 10%;">Date</td> <td style="width: 10%;">Time</td> </tr> <tr> <td><u>Dale Barrett</u></td> <td><u>12-14-09</u></td> <td><u>1445</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Relinquished by:</td> <td>Date</td> <td>Time</td> <td>Received by:</td> <td>Date</td> <td>Time</td> </tr> <tr> <td>Relinquished by:</td> <td>Date</td> <td>Time</td> <td>Received by:</td> <td>Date</td> <td>Time</td> </tr> <tr> <td>Relinquished by:</td> <td>Date</td> <td>Time</td> <td>Received by:</td> <td>Date</td> <td>Time</td> </tr> <tr> <td>Relinquished by:</td> <td>Date</td> <td>Time</td> <td>Received by:</td> <td>Date</td> <td>Time</td> </tr> </table>	Relinquished by:	Date	Time	Received by:	Date	Time	<u>Dale Barrett</u>	<u>12-14-09</u>	<u>1445</u>				Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
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<p>8 Data Package Options (please circle if required)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Type I (validation/NJ Reg)</td> <td style="width: 20%;">TX TRRP-13</td> <td style="width: 20%;">SDG Complete?</td> <td style="width: 40%;">Yes No</td> </tr> <tr> <td>Type II (Tier II)</td> <td>MA MCP CT RCP</td> <td></td> <td></td> </tr> <tr> <td>Type III (Reduced NJ)</td> <td>Site-specific QC (MS/MSD/Dup)?</td> <td>Yes No</td> <td></td> </tr> <tr> <td>Type IV (CLP SOW)</td> <td colspan="3" style="font-size: small;">(If yes, indicate QC sample and submit triplicate volume.)</td> </tr> <tr> <td>Type VI (Raw Data Only)</td> <td>Internal COC Required?</td> <td>Yes / No</td> <td></td> </tr> </table>	Type I (validation/NJ Reg)	TX TRRP-13	SDG Complete?	Yes No	Type II (Tier II)	MA MCP CT RCP			Type III (Reduced NJ)	Site-specific QC (MS/MSD/Dup)?	Yes No		Type IV (CLP SOW)	(If yes, indicate QC sample and submit triplicate volume.)			Type VI (Raw Data Only)	Internal COC Required?	Yes / No		<p style="text-align: right;"><u>Mary M...</u> <u>12/15/09 920</u></p>																
Type I (validation/NJ Reg)	TX TRRP-13	SDG Complete?	Yes No																																		
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Type III (Reduced NJ)	Site-specific QC (MS/MSD/Dup)?	Yes No																																			
Type IV (CLP SOW)	(If yes, indicate QC sample and submit triplicate volume.)																																				
Type VI (Raw Data Only)	Internal COC Required?	Yes / No																																			

Analytical Requests for Groundwater Monthly Southwest Quad
Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics

Benzene
Chlorobenzene
Ethylbenzene
Toluene
Xylenes (total)

Environmental Sample Administration Receipt Documentation Log

Client/Project: Orion

Shipping Container Sealed: YES NO

Date of Receipt: 12/15/09

Custody Seal Present * : YES NO

Time of Receipt: 920

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

Source Code: 50-1

Package: Chilled Not Chilled

Unpacker Emp. No.: 2316

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	0129865	2.90C	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>Mary B...</u>	<u>12/15/09</u>	<u>1025</u>	Unpacking
<u>Annalisa R-Owens</u>	<u>12/15/09</u>	<u>1050</u>	Place in Storage or <input checked="" type="radio"/> Entry
			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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